



AvaTax REST

API Guide

Version 1.0.0

Revision date: 10/31/2011

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Overview

This guide introduces and documents Avalara's Representational State Transfer (REST)-based Tax Services API, and outlines the request parameters and response formats necessary to utilize the Tax Services API for all available operations.

API Introduction

The AvaTax Services are made available from a REST-based, RPC-oriented API. The API supports both XML and JSON message formats.

Resource

The Operations available are broken out by Resource in the following tables. The HTTP Verb is significant in some cases.

Address

HTTP Verb	Identifier	Operation	Description
GET	N/A	validate	Validates an address supplied

Tax

HTTP Verb	Identifier	Operation	Description
POST	N/A	get	Calculates individual sales tax for set of invoices items
GET	latitude,longitude	get	Calculates sales tax based upon geographic identifier

Request Headers

The Tax Services API specifies a set of HTTP headers to be included with each request. The following table describes the necessary HTTP request headers.

Header	Description	Format	Required
Content-Length	Length of the message (without the headers) according to RFC 2616	Integer	Y
Content-Type	Represents message format of request and specifies the expected response format. Supported formats are text/json and text/xml.	"text/json" or "text/xml"	N, Defaults to "text/json" if not specified as "text/xml"
Date	The date and time as known to the client when the request was generated	RFC 1123	Y
Authorization	Basic access authentication header as per RFC 2617	RFC 2617	Y

Response Headers

The Tax Services API specifies a set of standard HTTP headers that will be returned with each successful operation response. The following table describes these headers.

Header	Description	Format
Content-Length	The length in bytes of the body in the response	Decimal
Content-Type	<p>Represents message format of response. Supported formats are <i>text/json</i> and <i>text/xml</i>.</p> <p>The value of Content-Type will be identical to that supplied in the Content-Type request header, unless a format specifier was provided on the URL.</p>	"text/json" or "text/xml"
Date	The date and time as known to the server when response was generated	RFC 1036 or RFC 1123
Server	Identifier of the server that generated the response	Text

Authentication

All API operations should be qualified with HTTP basic authentication credentials.

Common Request Format

A call to the Tax Services REST API will consist of the appropriate HTTP Verb and a URL in the following form:

[HTTP verb] / [API version number] / [resource] (/ [identifier]) / [operation] ([. [format]])

Note: parenthesis “()” denote content that may not be required depending on the resource and operation.

Request Segments

API Version Number

Each Tax Services API operation will be qualified with its respective version number. The version will be represented by the form “[major version #].[minor version #]”.

Resource

The Resource segment specifies the resource type being used for the operation.

Identifier

The Identifier segment specifies the specific resource to operate on, when defined.

Operation

The Operation segment specifies the supported operation on the resource to call.

Format

The message format of any API call may be qualified by a content type. Both JSON and XML content types are supported. This qualifier will override that of any supplied by the Content-Type HTTP header.

The format extensions supported are: text, xml, json, and jsonp.

JSONP Support

JSONP is JSON with padding. If the Format segment of the request specifies “jsonp” or if the response type is “json” and the query string attribute “jsonp” is supplied, then a JSONP result will be returned. If the “jsonp” query string attribute is not supplied with the “jsonp” Format segment, then the “jsonp” wrapper will be AvaTaxResponse. If the “jsonp” query string attribute is supplied and the response type is not JSON, then the result will not be wrapped in the “jsonp” attribute value supplied.

JSONP Examples

The following examples will all result in a JSONP response.

Example Set 1

```
https://rest.avalara.net/1.0/tax/47.627935,-122.51702/get.jsonp?saleamount=10
```

```
https://rest.avalara.net/1.0/tax/47.627935,-  
122.51702/get.json?jsonp=&saleamount=10
```

```
https://rest.avalara.net/1.0/tax/47.627935,-122.51702/get?jsonp=&saleamount=10
```

Result:

```
AvaTaxResponse(/* json result */)
```

Example Set 2

```
https://rest.avalara.net/1.0/tax/47.627935,-  
122.51702/get.json?jsonp=GeoTaxResponse&saleamount=10
```

```
https://rest.avalara.net/1.0/tax/47.627935,-  
122.51702/get.jsonp?jsonp=GeoTaxResponse&saleamount=10
```

Result:

```
GeoTaxResponse(/* json result */)
```

Examples Ignoring JSONP

```
https://rest.avalara.net/1.0/tax/47.627935,-  
122.51702/get.xml?jsonp=GeoTaxResponse&saleamount=10
```

```
https://rest.avalara.net/1.0/tax/47.627935,-  
122.51702/get.text?jsonp=GeoTaxResponse&saleamount=10
```

Common Response Format

Each operation will return a field, `ResultCode`, indicating the success of the operation. If the operation fails a collection of messages that detail the failure will be returned in addition to the non-success `ResultCode` value. The following properties are common to each response. More severe result codes will correspond with a non-successful HTTP response (e.g 500).

Field	Description	Format
<code>ResultCode</code>	Result code of operation	<code>SeverityLevel</code>
<code>Messages</code>	One or more messages describing an operation failure. Note: This field is only present if the response reports a non-success <code>ResultCode</code> value.	<code>Message[]</code>

Severity Level

A severity level may consist one of any of the following values.

Value	HTTP Status	Description
Success	200	Operation was successful
Warning	200	Operation was otherwise successful, but data used to generate response may be missing or incorrect
Error	400	Operation failed for one or more reasons described in messages collection
Exception	500	Operation failed to due an unknown error

Message

Message provides a description of an error or warning.

Field	Description	Format
<code>Summary</code>	The message summary in short form	String
<code>Details</code>	Description of the error or warning	String
<code>RefersTo</code>	The data used during the request that caused the message to be generated	String
<code>Severity</code>	Classifies severity of message	<code>SeverityLevel</code>
<code>Source</code>	The internal location that generated the message	String

Examples

Response (JSON)

```
{
  "ResultCode": "Error",
  "Messages":
  [
    {
      "Summary": "Unknown country name or code (ZZ)",
      "Details": "ZZ is not a known country name or code.",
      "RefersTo": "Addresses[0]",
      "Severity": "Error",
      "Source": "Avalara.AvaTax.Services.Tax"
    }
  ]
}
```

Response (XML)

```
<TaxCalcWidgetResult>
  <ResultCode>Error</ResultCode>
  <Messages>
    <Message>
      <Summary>Unknown country name or code (ZZ)</Summary>
      <Details>ZZ is not a known country name or
code.</Details>
      <RefersTo>Addresses[0]</RefersTo>
      <Severity>Error</Severity>
      <Source>Avalara.AvaTax.Services.Tax</Source>
    </Message></Messages>
</TaxCalcWidgetResult>
```

Best Practices for High Availability

The AvaTax Tax Services API guarantees availabilities of 99.95% only if certain conventions are followed. This section describes the recommended best practices required to maximally leverage the highly available nature of the AvaTax Tax Services infrastructure.

DNS Refresh

The host name of every distinct Tax Services endpoint should be refreshed at the frequency specified by its DNS TTL. It is best practice to resolve the service host name as frequently as possible. The Tax Services infrastructure will periodically change the address entries for our endpoints if an isolated service outage occurs, ensuring that each client is provided the address of an available service node within seconds of detected failure.

Multiple DNS A Records

The host name of each Tax Services endpoint can resolve to multiple IP addresses. To achieve maximum uptime, a client may monitor the availability of each of these addresses and choose the one they deem to be functioning. This technique should be used in conjunction with frequent DNS refreshes to minimize, or effectively eliminate, any perceived downtime of the Tax Services infrastructure.

API Operations

Geographical Tax

HTTP Verb: GET

Resource: tax

Identifier: latitude, longitude

Operation: get

This operation returns the applicable tax details for the given geographic coordinates and sale amount.

Identifier

The identifier format is [decimal] [comma] [decimal] without spacing.

Field	Description	Format
latitude	The latitude of the geographic coordinates to get tax for based on the sale amount	Decimal
longitude	The longitude of the geographic coordinates to get tax for based on the sale amount	Decimal

Request Parameters

Field	Description	Format
SaleAmount	Amount of sale requiring tax calculation	Decimal

Response Message

GeoTaxResult

Field	Description	Format
Rate	Total effective tax rate	Decimal
Tax	Total calculated tax amount	Decimal
TaxDetails	Collection of applicable tax jurisdictions and applied taxes	TaxDetail[]

TaxDetail

Field	Description	Type
Country	Country of tax jurisdiction	String
JurisName	Name of tax jurisdiction	String
JurisType	Regional type of tax jurisdiction	String
Rate	Effective tax rate for tax jurisdiction	Decimal
Region	Region of tax jurisdiction	String
Tax	Tax amount	Decimal
TaxName	Tax name	Text

Examples

The examples require that the proper HTTP Headers are supplied in order to function appropriately.

Request (JSON)

```
https://rest.avalara.net/1.0/tax/47.627935,-122.51702/get?saleamount=10  
https://rest.avalara.net/1.0/tax/47.627935,-122.51702/get.json?saleamount=10
```

Response (JSON)

```
{  
  "Rate": 0.086,  
  "Tax": 0.86,  
  "TaxDetails":  
  [  
    {  
      "Rate": 0.065,  
      "Tax": 0.65,  
      "Region": "WA",  
      "Country": "US",  
      "JurisType": "State",  
      "JurisName": "WASHINGTON",  
      "TaxName": "WA STATE TAX"  
    },  
    {  
      "Rate": 0.021,  
      "Tax": 0.21,  
      "Region": "WA",  
      "Country": "US",  
      "JurisType": "City",  
      "JurisName": "BAINBRIDGE ISLAND",  
      "TaxName": "WA CITY TAX"  
    }  
  ],  
  "ResultCode": "Success"  
}
```

Request (XML)

```
https://rest.avalara.net/1.0/tax/47.627935,-122.51702/get.xml?saleamount=10
```

Response (XML)

```

<GeoTaxResult>
  <Rate>0.086</Rate>
  <Tax>0.86</Tax>
  <TaxDetails>
    <TaxDetail>
      <Rate>0.065</Rate>
      <Tax>0.65</Tax>
      <Region>WA</Region>
      <Country>US</Country>
      <JurisType>State</JurisType>
      <JurisName>WASHINGTON</JurisName>
      <TaxName>WA STATE TAX</TaxName>
    </TaxDetail>
    <TaxDetail>
      <Rate>0.021</Rate>
      <Tax>0.21</Tax>
      <Region>WA</Region>
      <Country>US</Country>
      <JurisType>City</JurisType>
      <JurisName>BAINBRIDGE ISLAND</JurisName>
      <TaxName>WA CITY TAX</TaxName>
    </TaxDetail>
  </TaxDetails>
  <ResultCode>Success</ResultCode>
</GeoTaxResult>

```

Get Tax

HTTP Verb: POST

Resource: tax

Identifier: N/A

Operation: get

The Get Tax operation calculates tax for one or more invoiced items and displays details describing the calculation of tax for each line item.

Request Message

GetTaxRequest

GetTaxRequest represents a request to calculate tax for the provided invoice line items.

Field	Description	Type	Required
CustomerCode	Client application customer reference code	String	Y
DocDate	Date of invoice, sales order, purchase order, etc.	Date	Y
CompanyCode	Client application company reference code	String	N
Commit	Commit flag. If Commit is set to true, tax for the transaction is saved and posted as tax document.	Boolean	N
CustomerUsageType	Client application customer or usage type. CustomerUsageType determines the exempt status of the transaction based on the exemption tax rules for the jurisdictions involved. CustomerUsageType may also be set at the line item level. Can also be referred to as Entity/Use Code.	String	N
Discount	Document level discount amount applied to transaction	Decimal	N
DocCode	Client application identifier describing this tax transaction (i.e. invoice number, sales order number, etc.)	String	N, Defaults to a GUID.
PurchaseOrderNo	Buyer's purchase order identifier. PurchaseOrderNo is required for single use exemption certificates to match the order and invoice with the certificate.	String	N
ExemptionNo	Exemption number used for this transaction	String	N
DetailLevel	Specifies the level of tax detail to return	DetailLevel	N, Defaults to Tax
DocType	The document types supported include SalesOrder, SalesInvoice, PurchaseOrder, PurchaseInvoice, ReturnOrder, and ReturnInvoice		N, Defaults to SalesOrder
PaymentDate	The date on which payment was made	Date	N
Lines	Collection of invoice lines requiring tax calculation	Line[]	N
Addresses	Collection of physical addresses that will be referred to as the destination or origination of 1 or more invoice line entries	Address[]	N
ReferenceCode	Value stored with SalesInvoice DocType that is submitter dependent.	String	N

Line

Line represents an invoiced item requiring tax calculation.

Field	Description	Type	Required
LineNo	Line item identifier. LineId uniquely identifies the line item row.	String	Y
DestinationCode	Destination (ship-to) address code. DestinationCode references an address from the Addresses collection.	String	Y
OriginCode	Origination (ship-from) address code. OriginCode references an address from the Addresses collection.	String	Y
ItemCode	Item code (e.g. SKU)	String	N
TaxCode	Tax code	String	N
CustomerUsageType	The client application customer or usage type. CustomerUsageType determines the exempt status of the transaction based on the exemption tax rules for the jurisdictions involved. Can also be referred to as Entity/Use Code.	String	N
Description	Item description	String	N
Qty	Item quantity	Decimal	Y
Amount	Total amount of item (extended amount, qty * unit price)	Decimal	Y
Discounted	True if the document level discount is applied to this line item	Boolean	N
TaxIncluded	True if the tax is already included.	Boolean	N
Ref1	Value stored with SalesInvoice DocType that is submitter dependent.	String	N
Ref2	Value stored with SalesInvoice DocType that is submitter dependent.	String	N

Address

Address represents the destination or origin shipping address of a line item. If longitude and latitude are defined all other fields but AddressCode will be ignored.

Field	Description	Type	Required
AddressCode	Reference code uniquely identifying this address instance	String	Y
Line1	Address line 1	String	Y, If Latitude and Longitude are not supplied
Line2	Address line 2	String	N
Line3	Address line 3	String	N
City	City name	String	Y, If PostalCode not supplied or Latitude and Longitude are not supplied
Region	State, province, or region name	String	Y, If PostalCode not supplied or Latitude and Longitude are not supplied
Country	Country code	ISO 3166-1 (Alpha-2) country code (e.g. "US")	N
PostalCode	Postal or ZIP code	String	Y, If City and Region are not supplied or Latitude and Longitude are not supplied
Latitude	Geographic latitude. If Latitude is defined, it is expected that the longitude field will also be provided. Failure to do so will result in operation error.	Decimal	Y, If Line1 and City and Region are not supplied or Line1 and PostalCode is not supplied
Longitude	Geographic longitude. If Longitude is defined, it is expected that the latitude field will also be provided. Failure to do so will result in operation error.	Decimal	Y, If Line1 and City and Region are not supplied or Line1 and PostalCode is not supplied
TaxRegionId	AvaTax tax region identifier. If a non-zero value is entered into TaxRegionId, other fields will be ignored.	String	N

DetailLevel

Type	Description
Line	Summary tax for each invoice line is returned (TaxLines). Additionally, Line returns summary tax breakdowns for all unique tax jurisdictions (TaxSummary).
Summary	Summary tax breakdowns for all unique tax jurisdictions are returned (TaxSummary).
Document	Only top-level tax summary fields are returned.
Tax	Summary tax for each invoice line is returned (TaxLines) in addition to its tax jurisdictions breakdown (TaxDetails).
Diagnostic	Diagnostic level detail.

Response Message**GetTaxResult**

Field	Description	Format
DocCode	The document code, if not supplied in the request the returned value is a GUID	String
DocDate	The date of the document being submitted	Date
TimeStamp		Date
TotalAmount	Total taxable amount, derived from sum of all invoice lines	Decimal
TotalDiscount	Sum of all TaxLine discount amounts	Decimal
TotalExemption	Total exemption amount	Decimal
TotalTaxable	Total taxable amount	Decimal
TotalTax	Sum of all TaxLine tax amounts	Decimal
TotalTaxCalculated	Total calculated tax	Decimal
TaxDate	Date of tax transaction	Date
TaxLines	Tax calculation details for item lines (applies only to detail levels Line and Address)	TaxLine[]
TaxSummary	Tax summary information (sans tax details) for item lines (applies only to detail level Summary)	TaxLine[]
TaxAddresses	Validated addresses used in tax calculations (applies only to detail level Address)	TaxAddress
ResultCode	See Common Response Format	
Messages	See Common Response Format, not present if ResultCode is success value	

TaxLine

Field	Description	Type
LineNo	Line item identifier	String
TaxCode	The tax code used in calculating tax	String
Taxability	Flag indicating item was taxable	Boolean
Taxable	The amount that is taxable	Decimal
Rate	Effective tax rate	Decimal
Tax	Tax amount	Decimal
Discount	Discount amount	Decimal
TaxCalculated	Amount of tax calculated	Decimal
Exemption	Tax Exemption	Boolean
TaxDetails	Collection of tax details	TaxDetail[]

TaxDetail

Field	Description	Type
Rate	Effective tax rate for tax jurisdiction	Decimal
Tax	Tax amount	Decimal
Taxable	Amount of sale that is taxable	Decimal
Country	Country of tax jurisdiction	String
Region	Region of tax jurisdiction	String
JurisType	Regional type of tax jurisdiction	String
JurisName	Name of tax jurisdiction	String
TaxName	The tax name associated with the tax	String

TaxAddress

TaxAddress represents canonical addresses used in tax calculation.

Field	Description	Type
Address	Canonical address	String
AddressCode	Reference code uniquely identifying this address instance. AddressCode will always correspond to an address code supplied to in the address collection provided in the request.	String
City	City name	String
Region	State or region name	String
Country	Country code	ISO 3166-1 (Alpha-2) country code (e.g. "US")
PostalCode	Postal code	String
Latitude	Geographic latitude. Latitude is only defined if input address was a geographic point.	Decimal
Longitude	Geographic longitude. Longitude is only defined if input address was a geographic point.	Decimal
TaxRegionId	AvaTax tax region identifier	String
JurisCode	Tax jurisdiction code	String

Examples

The examples require that the proper HTTP Headers are supplied in order to function appropriately.

Request (JSON)

```
https://rest.avalara.net/1.0/tax/get
```

Request Body

```
{
  "DocDate": "2011-05-11",
  "CustomerCode": "CUST1",
  "Addresses":
  [
    {
      "AddressCode": "1",
      "Line1": "435 Ericksen Avenue Northeast",
      "Line2": "#250",
      "PostalCode": "98110"
    }
  ],
  "Lines":
  [
    {
      "LineNo": "1",
      "DestinationCode": "1",
      "OriginCode": "1",
      "Qty": 1,
      "Amount": 10
    }
  ]
}
```

Response (JSON)

```
{
  "DocCode": "78b28084-8d9a-477c-9f26-afab1c0c3877",
  "DocDate": "2011-05-11",
  "Timestamp": "2011-05-11 04:26:41",
  "TotalAmount": 10,
  "TotalDiscount": 0,
  "TotalExemption": 0,
  "TotalTaxable": 10,
  "TotalTax": 0.86,
  "TotalTaxCalculated": 0.86,
  "TaxDate": "2011-05-11",
  "TaxLines": [
    {
      "LineNo": "1",
      "TaxCode": "P0000000",
      "Taxability": true,
      "Taxable": 10,
      "Rate": 0.086,
      "Tax": 0.86,
      "TaxDetails": [
        {
          "Taxable": 10,
          "Rate": 0.065,
          "Tax": 0.65,
          "Region": "WA",
          "Country": "US",
          "JurisType": "State",
          "JurisName": "WASHINGTON",
          "TaxName": "WA STATE TAX"
        },
        {
          "Taxable": 10,
          "Rate": 0.021,
          "Tax": 0.21,
          "Region": "WA",
          "Country": "US",
          "JurisType": "City",
          "JurisName": "BAINBRIDGE ISLAND",
          "TaxName": "WA CITY TAX"
        }
      ]
    }
  ],
  "TaxAddresses": [
    {
      "Address": "435 Ericksen Ave NE",
      "AddressCode": "1",
      "City": "Bainbridge Island",
      "Country": "US",
      "PostalCode": "98110-1896",
      "Region": "WA",
      "TaxRegionId": "1048695",
      "JurisCode": "5300003736"
    }
  ]
}
```

```

    }
  ]
  , "ResultCode": "Success"
}

```

Request (XML)

<https://rest.avalara.net/1.0/tax/get>

Request Body

```

<GetTaxRequest>
  <DocDate>2011-05-11</DocDate>
  <CustomerCode>CUST1</CustomerCode>
  <Addresses>
    <Address>
      <AddressCode>1</AddressCode>
      <Line1>435 Ericksen Avenue Northeast</Line1>
      <Line2>#250</Line2>
      <PostalCode>98110</PostalCode>
    </Address>
  </Addresses>
  <Lines>
    <Line>
      <LineNo>1</LineNo>
      <DestinationCode>1</DestinationCode>
      <OriginCode>1</OriginCode>
      <Qty>1</Qty>
      <Amount>10</Amount>
    </Line>
  </Lines>
</GetTaxRequest>

```

Response (XML)

```

<GetTaxResult>
  <DocCode>9bd47a2d-f28e-4e31-a2ca-d0d67d1d601d</DocCode>
  <DocDate>2011-05-11</DocDate>
  <Timestamp>2011-05-11 04:45:52</Timestamp>
  <TotalAmount>10</TotalAmount>
  <TotalTaxable>10</TotalTaxable>
  <TotalTax>0.86</TotalTax>
  <TotalTaxCalculated>0.86</TotalTaxCalculated>
  <TaxDate>2011-05-11</TaxDate>
  <TaxLines>
    <TaxLine>
      <LineNo>1</LineNo>
      <TaxCode>P0000000</TaxCode>
      <Taxability>true</Taxability>
      <Taxable>10</Taxable>
      <Rate>0.086</Rate>
      <Tax>0.86</Tax>
      <Discount>0</Discount>
      <TaxCalculated>0.86</TaxCalculated>
      <Exemption>0</Exemption>
      <TaxDetails>
        <TaxDetail>
          <Taxable>10</Taxable>

```

```

        <Rate>0.065</Rate>
        <Tax>0.65</Tax>
        <Region>WA</Region>
        <Country>US</Country>
        <JurisType>State</JurisType>
        <JurisName>WASHINGTON</JurisName>
        <TaxName>WA STATE TAX</TaxName>
    </TaxDetail>
    <TaxDetail>
        <Country>US</Country>
        <Region>WA</Region>
        <JurisType>City</JurisType>
        <Taxable>10</Taxable>
        <Rate>0.021</Rate>
        <Tax>0.21</Tax>
        <JurisName>BAINBRIDGE ISLAND</JurisName>
        <TaxName>WA CITY TAX</TaxName>
    </TaxDetail>
</TaxDetails>
</TaxLine>
</TaxLines>
<TaxAddresses>
    <TaxAddress>
        <Address>435 Ericksen Ave NE</Address>
        <AddressCode>1</AddressCode>
        <City>Bainbridge Island</City>
        <Country>US</Country>
        <PostalCode>98110-1896</PostalCode>
        <Region>WA</Region>
        <TaxRegionId>1048695</TaxRegionId>
        <JurisCode>5300003736</JurisCode>
    </TaxAddress>
</TaxAddresses>
<ResultCode>Success</ResultCode>
</GetTaxResult>

```

Validate Address

HTTP Verb: GET

Resource: address

Identifier: N/A

Operation: validate

This operation validates the supplied address, returning canonical form and additional delivery details if successfully validated.

Query Parameters

Field	Description	Format	Required
Line1	Address line 1	String	Y
Line2	Address line 2	String	N
Line3	Address line 3	String	N
City	City name	String	Y, when PostalCode is not specified.
Region	State, province, or region name	String	Y, when PostalCode is not specified.
Country	Country code	String	N
PostalCode	Postal or ZIP code	String	Y, when City and Region are not specified

Response Message

ValidateResult

Field	Description	Format
Address	Validated address	Address
ResultCode	See Common Response Format	
Messages	See Common Response Format, not present if ResultCode is success value	

Address

Field	Description	Format
Line1	Address line 1	String
Line2	Address line 2	String
Line3	Address line 3	String
City	City name	String
Region	State, province or region name	String
Country	Country code	ISO 3166-1 (Alpha-2) country code (e.g. "US")
AddressType	Address type code	AddressType
PostalCode	Postal or ZIP code	String
County	County name	String
FipsCode	Federal Information Processing Standards Code (USA)	FIPSCode
CarrierRoute	Carrier route (USA)	CarrierRoute
TaxRegionId	AvaTax tax region identifier	String
PostNet	12-digit POSTNet barcode (USA)	POSTNet

AddressType

AddressType is the type of address that was coded (PO Box, Rural Route, and so on).

Term	Description
F	Firm or company address
G	General Delivery address
H	High-rise or business complex
P	PO Box address
R	Rural route address
S	Street or residential address

FIPSCode

FIPSCode is a unique 10-digit code representing each geographic combination of state, county, and city. The code is made up of the Federal Information Processing Code (FIPS) that uniquely identifies each state, county, and city in the U.S.

Digits	Description
1-2	State code
3-5	County code
6-10	City code

CarrierRoute

CarrierRoute is a four-character string representing a US postal carrier route. The first character of this property, the term, is always alphabetic, and the last three numeric. For example, "R001" or "C027" would be typical carrier routes. The alphabetic letter indicates the type of delivery associated with this address.

Term	Description
B	PO Box
C	City delivery
G	General delivery
H	Highway contract
R	Rural route

POSTNet

POSTNet is a 12-digit barcode containing the ZIP Code, ZIP+4 Code, and the delivery point code, used by the USPS to direct mail.

Digits	Description
1-5	ZIP code
6-9	Plus4 code
10-11	Delivery point
12	Check digit

Examples

The examples require that the proper HTTP Headers are supplied in order to function appropriately.

Request (JSON)

```
https://rest.avalara.net/1.0/address/validate?Line1=435+Ericksen+Ave+NE&PostalCode=98110
```

```
https://rest.avalara.net/1.0/address/validate?Line1=435+Ericksen+Ave+NE&City=Bainbridge+Island&Region=WA
```

Response (JSON)

```
{
  "Address":
  {
    "Line1": "435 ERICKSEN AVE NE",
    "City": "BAINBRIDGE ISLAND",
    "Region": "WA",
    "PostalCode": "98110-1896",
    "Country": "US",
    "County": "KITSAP",
    "FipsCode": "5303503736",
    "CarrierRoute": "C051",
    "PostNet": "981101896999",
    "AddressType": "H"
  },
  "ResultCode": "Success"
}
```

Request (XML)

```
https://rest.avalara.net/1.0/address/validate.xml?Line1=435+Ericksen+Ave+NE&PostalCode=98110
```

```
https://rest.avalara.net/1.0/address/validate.xml?Line1=435+Ericksen+Ave+NE&City=Bainbridge+Island&Region=WA
```

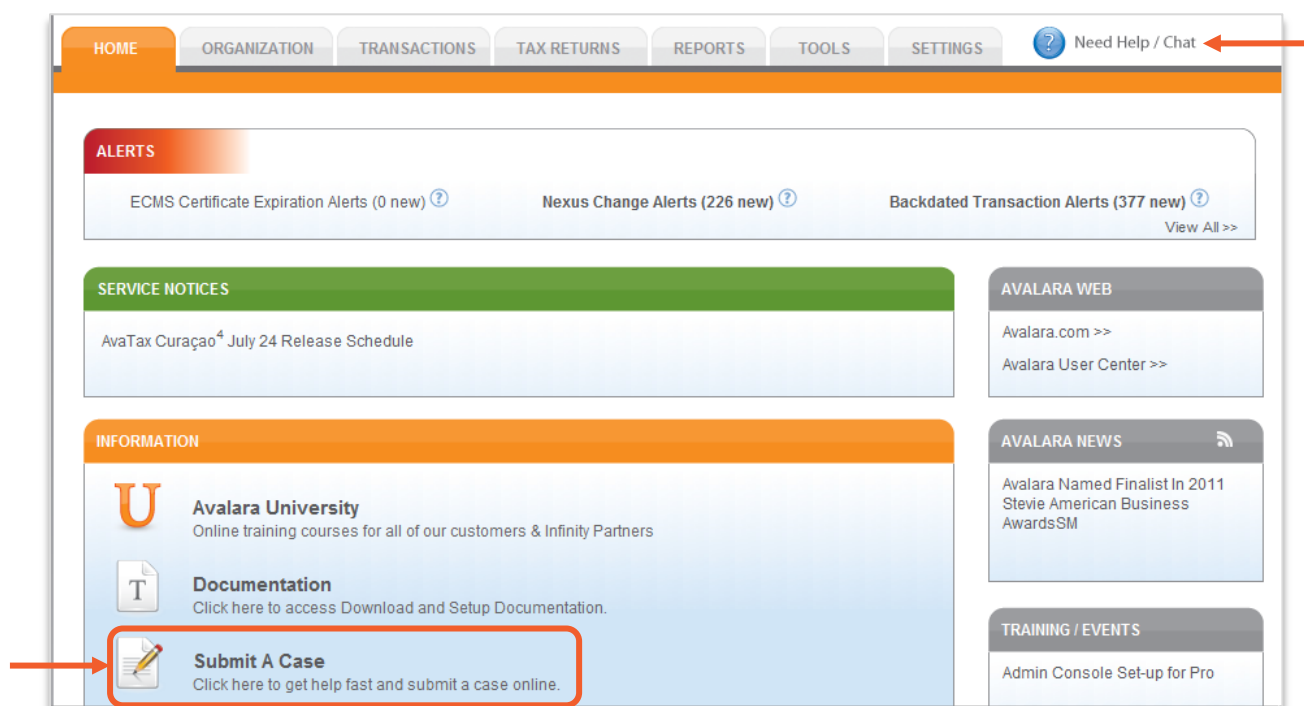
Response (XML)

```
<ValidateResult>
  <Address>
    <Line1>435 ERICKSEN AVE NE</Line1>
    <City>BAINBRIDGE ISLAND</City>
    <Region>WA</Region>
    <PostalCode>98110-1896</PostalCode>
    <Country>US</Country>
    <County>KITSAP</County>
    <FipsCode>5303503736</FipsCode>
    <CarrierRoute>C051</CarrierRoute>
    <PostNet>9811018969957</PostNet>
    <AddressType>H</AddressType>
  </Address>
  <ResultCode>Success</ResultCode>
</ValidateResult>
```

Avalara Support

If there are any questions or requests for additional information in regard to AvaTax, please contact Avalara Support. A support representative can be contacted via telephone at our toll free number 1.877.780.4848 – option 2 at the automated attendant. Standard support hours are from 7:00 a.m. Pacific through 4:00 p.m. Pacific, Monday through Friday.

Requests for assistance can also be placed online via the AvaTax Admin Console (<https://admin-avatax.avalara.net/>).



Log in to the AvaTax Admin Console, and select **Need Help/Chat** or **Submit A Case** from the Home tab.