

Tax Calculation

SCMP API



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Revision

Version: 23.02

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Recent Revisions to This Document

23.02	This revision contains only editorial changes and no technical updates.
23.01	This revision contains only editorial changes and no technical updates.
21.02	Updated Invalid Tax Calculation.
21.01	Updated Terminology.
20.03	Updated Terminology.
20.02	Added information about requesting the void service. See Void Tax Calculation .

About This Guide

This section describes the audience and purpose of this guide as well as conventions and related documentation.

Audience and Purpose

This guide is written for application developers who want to use the SCMP API to integrate tax calculation into an order management system.

Implementing the tax calculation service requires software development skills. You must write code that uses the API request and response fields to integrate the tax calculation service into an existing order management system.

Conventions

The following special statements are used in this document:



Important

An Important statement contains information essential to successfully completing a task or learning a concept.



Warning

A Warning contains information or instructions, which, if not heeded, can result in a security risk, irreversible loss of data, or significant cost in time or revenue or both.

Testing

We recommend you test all use cases to ensure the tax engine is calculating taxes as expected before going live. Contact Cybersource Customer Support to have your test account set up to return production-level tax rates for short-term testing needs. You will be required to use a production merchant for testing if you have long-term testing needs that require production-level data for ongoing validation.

Use the Developer Center to test Value Added Services:

https://developer.cybersource.com/api-reference-assets/index.html#value-added-service_taxes_value-added-service

Related Documentation

Refer to the Support Center for complete technical documentation:

<https://docs.cybersource.com/en/index.html>

Customer Support

For support information about any service, visit the Support Center:

<http://www.cybersource.com/support>

Overview of Tax Calculation

The tax calculation service provides real-time tax calculation for worldwide orders placed with your business. It also enables you to avoid the risk and complexity of managing online tax calculation.

The key services provided allow you to:

- [Calculate Taxes](#)
- [Tax Reporting](#)



Important

IMPORTANT NOTICE FOR USERS OF CYBERSOURCE TAX SERVICES

The tax calculation is based on the location of the customer's taxing jurisdiction, your nexus locations, and the tax and product codes that you provide to Cybersource. The order price and quantity are included in the calculation to determine the order's total tax amount. You are solely responsible for selecting the appropriate tax and product codes for your business and its goods and services, including with respect to shipping and handling, and providing those codes to Cybersource.

CYBERSOURCE DOES NOT PROVIDE TAX CONSULTATION SERVICES, ACCOUNTING OR LEGAL ADVICE AND ASSUMES NO OBLIGATION, LIABILITY OR RESPONSIBILITY FOR ANY INCORRECT, INACCURATE, OR INCOMPLETE INFORMATION PROVIDED TO CYBERSOURCE, OR FOR ANY INCORRECT TAX CALCULATIONS RESULTING FROM SUCH INFORMATION. CYBERSOURCE STRONGLY RECOMMENDS THAT YOU CONSULT WITH A TAX PROFESSIONAL IN CONNECTION WITH YOUR SELECTION OF TAX-RELATED DATA FOR INPUT INTO THE CYBERSOURCE TAX CALCULATION SYSTEM. TO THE EXTENT CUSTOMER USES CYBERSOURCE'S TAX CALCULATION SERVICE, CUSTOMER UNDERSTANDS AND AGREES THAT NEITHER CYBERSOURCE NOR ITS THIRD-PARTY LICENSORS CAN GUARANTEE THE ACCURACY OF TAX OR VAT RATES OBTAINED FROM TAXING AUTHORITIES, AND, (ii) THAT CUSTOMER BEARS THE ULTIMATE RESPONSIBILITY FOR THE PROPER PAYMENT AND REPORTING OF TAXES APPLICABLE TO CUSTOMER'S SALE OF ITS PRODUCTS OR SERVICES.

Business Center

In the Business Center, you can:

- View transaction details, including taxes.
- Process customers' payments and credits.
- Create, view, and download reports, including the Tax Detail Report.

The Business Center comprises a test site and a live production site. Your account must be configured to use the Business Center functions. Your merchant ID and the password you established when you registered function as your Business Center credentials. After you log in to the production or test version of the Business Center, click the **Help** button on any page for additional information.

Related information

- <https://businesscenter.cybersource.com>

Prerequisites for Tax Calculation

Before implementing the tax calculation service, you must know the following:

1. Where your business is required to pay tax, and register there. See [Tax Nexus](#) on page 8.
2. Whether any products require special product codes for tax purposes. See [Product Codes](#) on page 9.
3. The correct address information. See [Address Requirements](#) on page 9.
4. When to calculate tax in your check out flow. See [When to Calculate Taxes](#) on page 10.

Tax Nexus

When your company has nexus in the US or Canada, you might be required to collect sales tax or sellers use tax in those countries. You can establish nexus in a state or province in various ways. For example:

- Your company has a physical presence in the US or Canada such as office space, warehouse space, paid staff, or inventory.
- Your company sells a sufficiently large volume of goods in the US or Canada to have economic nexus.

Each state and province has its own rules for determining nexus. Consult your tax advisor to determine where you have nexus.



Important

In your tax calculation service request, specify the states in which you have nexus by populating the **nexus** or **no_nexus** API fields. When you do not include one of these fields in a tax calculation service request, the tax system makes its calculations as if you have nexus in every state.

For more information, see [Step 1: Nexus](#) on page 12.

Product Codes

When you request the tax calculation service, you can provide a separate product code for each item in the order. A product code is required in order to trigger product-based rules and exemptions. When you do not include a product code in your request, or when you include an invalid product code, the tax calculation service assumes that the product has no product-based tax exemptions and is fully taxable.



Important

To use a product code that is not listed in the available guides, contact customer support for information about how to proceed.

US and Canadian Tax

Products that are fully taxable in all states do not need a product code because they do not have tax exemption in any state. For tax-exempt products or those with non-standard tax rates, use the product codes in the Cybersource tax codes guide, which can be requested each month from customer support.

To use a product code that is not listed in the guide, contact customer support for information about how to proceed. Until the product code is supported, you can override the tax amount for the product by sending the amount of tax to apply to the item in the **total_tax_amount** field.

For more information, see [Step 2: Product Codes](#) on page 13.

International Tax and VAT

For a list of available product codes for international taxes or VAT, see the Cybersource tax codes guide. For information about these codes, contact customer support.

Address Requirements

The tax calculation service requires specific address information be provided in order to properly calculate tax. This section goes over how the tax calculation service uses address information to calculate tax.



Important

There is additional address related information in the US and Canada section that explains specific request fields. See [US and Canadian Addresses](#).

Multiple Shipping Destinations in a Single Order

You cannot specify a different shipping address for each item in an order. When the order contains multiple items that are going to different addresses, you must send a separate tax calculation service request for each shipping address.

Missing Origin Addresses

The destination address is substituted for the origin address when no origin address or a partial origin address is specified. For the best results, use fully validated origin and destination addresses.

Invalid Address Combination Correction

The tax calculation service performs an implicit address validation; if successful, the entire address is used for tax calculation.

In case the full address validation failed, engine looks for “Zip + 4” – if it has been provided. If provided, tax is calculated with the “Zip + 4”. If “Zip + 4” is not provided or is incorrect, engine looks for “City & State” or Zip; if either are provided and are accurate, tax is calculated based on these details. If the zip code does NOT lie within the state, then the city and state are used to determine the region for the tax calculation. Note: In certain cases, Zip alone is not enough to accurately determine the jurisdictions; in such cases, engine looks for additional information – such as Address Lines or City and State. If either is provided and enables identification of the jurisdictions, the successful tax calculation is returned. As Jurisdiction data is in a regular state of change, partial addresses can produce different results over time as the jurisdictions and tax authorities change. Abbreviations used for some city and county names are acceptable in more than one form. For example, St. Louis is acceptable as Saint Louis, St Louis, and St. Louis. See [City Abbreviations](#).

When to Calculate Taxes

You can calculate tax at these times during the order process:

- When the customer prompts for a subtotal or total.
- When the customer performs a final check out.
- When the order ships, which ensures that the current tax rate is applied to the order.



Important

As you determine how and where to implement the Tax Calculation Service on your website, consider that the Global Tax Calculation Service is billable for each request. To offset your costs and optimize your pricing, consider waiting to request a tax calculation until after your customer has entered their shipping or billing address on the checkout page. This minimizes the number of tax calculation requests for a single transaction. To ensure that your business complies with tax laws, work with a tax advisor to determine when to calculate tax.

For more information on when to calculate US and Canadian taxes, see [Step 4: When to Calculate Tax](#) on page 13.

Tax Calculation

The service can calculate the following types of taxes:

- US sales and sellers use tax
- Canadian sales tax (GST, PST, HST, QST)
- International (non-US/Canadian) and Value-Added Tax (VAT)

The calculation is based on the location of the customer's taxing jurisdiction, your nexus locations, and the product codes that you provide. The order price and quantity are included in the calculation.

The tax calculation service is not recommended for merchants conducting business with unsupported countries. See [Supported Countries and Regions](#) on page 33.

Related concepts

- Calculating US and Canadian Tax on page 12
- Calculating International Tax and VAT on page 17

US and Canadian Tax Calculation

The tax calculation service uses the same request to calculate US and Canadian sales tax due to their similarities, but there are some distinguishing factors that should be known.

US Sales Tax

Sales tax is imposed on a transfer of property. Some states do not have sales tax. For US orders, the tax calculation service includes the total tax value for the transaction and tax values and rates per jurisdiction, divided into national, state, county, city, and special taxes. Some states do not have sales tax.

Canadian Taxes

The same procedures apply to calculating taxes for Canada as for the United States. Use only Canadian dollars for all Canadian taxes. The tax calculation service returns:

- GST as a country-level tax
- PST and QST as state-level taxes
- HST as the sum of GST and PST

If you want the tax calculation service to return HST as one field, contact customer support to configure your account accordingly.

Calculating US and Canadian Tax

To receive the most accurate tax calculation, you will need specific information for the field values. Follow these steps to determine the values for the fields.



Important

One tax service request should not include more than 50 line items. When you send a request with more than 50 line items, the request could time out.



Note

The Tax Calculation Service uses line-level rounding. Tax amounts for each jurisdictional detail will be rounded and then aggregated to the line. For example, 8.5% total tax that includes 1.25% city tax, 1.25% county tax, and 6% state tax, levied on a 10.00 item would result in a total tax of 0.86 based on amounts of 0.13 city tax, 0.13 county tax, and 0.60 state tax.

Step 1: Nexus

Identify the location of your company's nexus. Products are taxable only when the customer's **ship_to_state** field value matches a state or province in which your company has nexus. If the ship to fields are not included in the request, the service will use the bill to fields to determine the tax amount. Use the **nexus** field to list the states or provinces in which your company has nexus. Alternatively, you can use the **no_nexus** field to list states that should not be taxed.



Important

You cannot combine the **nexus** and **no_nexus** fields in the same request.

When you do not specify your nexus locations, the tax calculation service processes your request as if every state or province is taxable.

- When you do not specify your nexus locations, or when a value of the nexus field matches the value for the **ship_to_state** field, the service calculates the applicable tax for the product.
- When the value for the **ship_to_state** field does not match any state or province where you have nexus, the service assigns zero tax.

For more information, see [Tax Nexus](#) on page 8.

Step 2: Product Codes

If the product has special tax considerations, you can provide the appropriate tax product code in the **product_code** field in the request.

For more information, see [Product Codes](#) on page 9.

Step 3: Addresses

To receive the most accurate tax calculation possible, include the following address information in the request:

- Ship-to address, in fields in the **ship_to** fields group. When multiple cities are within a postal code area, the optional request field **ship_to_city** value improves the accuracy of the calculated tax.
- Product code, in the **product_code** field.
- Nexus, in the **nexus** field—or if it is easier, you can use the **no_nexus** field to provide a list of states in which you do not have nexus.

When the tax calculation service succeeds, the response includes the **tax_total_grand** field. When the optional request-level field **show_tax_per_offer** is set to **yes**, the response also includes the following fields for each offer:

- **tax_total_city_tax** with the value of **city**.
- **tax_total_county_tax** with the value of **county**.
- **tax_state_tax** with the value of **state**.
- **tax_country_tax** with the value of **country**.
- **tax_special_amount** with the value of **special**.

For more address-related information, see [Address Requirement](#).

Step 4: When to Calculate Tax

Determine when you will provide tax calculations during the customer transaction. Tax calculation can occur before or after determining the final order total. See Tax Reporting to know how this service can impact when you would want to request the tax service.

For more information, see [When to Calculate Taxes](#) on page 10.

Endpoint

Set the **ics_applications** field to **ics_tax**.

Send the request to <http://ics2.ic3.com>.

Required Fields for a Tax Calculation Using the SCMP API

Use these fields to perform a tax calculation.

amount

bill_city

bill_country

bill_state

bill_zip**ics_applications**Set to `ics_tax`.**merchant_ref_number****nexus**If you include this field, do not include the `no_nexus` field.**no_nexus**If you include this field, do not include the `nexus` field.

Related information

- [API Field Reference for the SCMP API](#)

Optional Fields for a Tax Calculation Using the SCMP API

Use these optional fields to perform a tax calculation.

tax_amount

Related information

- [API Field Reference for the SCMP API](#)

Example: Processing a Tax Calculation Using the SCMP API

Request

```

bill_address1=123 Main Street
bill_city=Small Town
bill_country=US
bill_state=CA
bill_zip=98765
card_type=001
currency=USD
customer_cc_expmo=10
customer_cc_expyr=2020
customer_cc_number=4111111111111111
customer_email=jsmith@example.com
customer_firstname=Jane
customer_lastname=Smith
ics_applications=ics_tax
merchant_id=infodev
merchant_ref_number=482046C3A7E94F5
offer0=product_category:physical^merchant_product_sku:07-12-00657^
product_name:Chewing Gum^product_code:50161815^quantity:1^
fulfillment_type:P^amount:1200.00
offer1=product_category:physical^merchant_product_sku:07-12-00659^
product_name:Sugar Cookies^product_code:50181905^
quantity:1^fulfillment_type:P^amount:1240.00
show_tax_per_offer=yes

```

Response

```

currency=usd
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=482046C3A7E94F5
tax_city_tax0=0.00
tax_city_tax1=0.00
tax_country_tax0=0.00
tax_country_tax1=0.00
tax_county_tax0=3.00
tax_county_tax1=3.10
tax_exempt_amount0=0.00
tax_exempt_amount1=0.00
tax_offer0_jurisdiction0_code=06
tax_offer0_jurisdiction0_country=US
tax_offer0_jurisdiction0_name=CALIFORNIA
tax_offer0_jurisdiction0_rate=0.062500
tax_offer0_jurisdiction0_region=CA
tax_offer0_jurisdiction0_tax_amount=75.00
tax_offer0_jurisdiction0_tax_name=CA STATE TAX
tax_offer0_jurisdiction0_taxable=1200.00
tax_offer0_jurisdiction0_type=State
tax_offer0_jurisdiction1_code=001
tax_offer0_jurisdiction1_country=US
tax_offer0_jurisdiction1_name=ALAMEDA
tax_offer0_jurisdiction1_rate=0.002500
tax_offer0_jurisdiction1_region=CA
tax_offer0_jurisdiction1_tax_amount=3.00
tax_offer0_jurisdiction1_tax_name=CA COUNTY TAX
tax_offer0_jurisdiction1_taxable=1200.00
tax_offer0_jurisdiction1_type=County
tax_offer0_jurisdiction2_code=EMAK0
tax_offer0_jurisdiction2_country=US
tax_offer0_jurisdiction2_name=ALAMEDA COUNTY DISTRICT TAX SP
tax_offer0_jurisdiction2_rate=0.020000
tax_offer0_jurisdiction2_region=CA
tax_offer0_jurisdiction2_tax_amount=24.00
tax_offer0_jurisdiction2_tax_name=CA SPECIAL TAX
tax_offer0_jurisdiction2_taxable=1200.00
tax_offer0_jurisdiction2_type=Special
tax_offer0_jurisdiction3_code=EMSJ0
tax_offer0_jurisdiction3_country=US
tax_offer0_jurisdiction3_name=ALAMEDA CO LOCAL TAX SL
tax_offer0_jurisdiction3_rate=0.010000
tax_offer0_jurisdiction3_region=CA
tax_offer0_jurisdiction3_tax_amount=12.00
tax_offer0_jurisdiction3_tax_name=CA SPECIAL TAX
tax_offer0_jurisdiction3_taxable=1200.00
tax_offer0_jurisdiction3_type=Special
tax_offer1_jurisdiction0_code=06
tax_offer1_jurisdiction0_country=US
tax_offer1_jurisdiction0_name=CALIFORNIA
tax_offer1_jurisdiction0_rate=0.062500
tax_offer1_jurisdiction0_region=CA

```

```

tax_offer1_jurisdiction0_tax_amount=77.50
tax_offer1_jurisdiction0_tax_name=CA STATE TAX
tax_offer1_jurisdiction0_taxable=1240.00
tax_offer1_jurisdiction0_type=State
tax_offer1_jurisdiction1_code=001
tax_offer1_jurisdiction1_country=US
tax_offer1_jurisdiction1_name=ALAMEDA
tax_offer1_jurisdiction1_rate=0.002500
tax_offer1_jurisdiction1_region=CA
tax_offer1_jurisdiction1_tax_amount=3.10
tax_offer1_jurisdiction1_tax_name=CA COUNTY TAX
tax_offer1_jurisdiction1_taxable=1240.00
tax_offer1_jurisdiction1_type=County
tax_offer1_jurisdiction2_code=EMAK0
tax_offer1_jurisdiction2_country=US
tax_offer1_jurisdiction2_name=ALAMEDA COUNTY DISTRICT TAX SP
tax_offer1_jurisdiction2_rate=0.020000
tax_offer1_jurisdiction2_region=CA
tax_offer1_jurisdiction2_tax_amount=24.80
tax_offer1_jurisdiction2_tax_name=CA SPECIAL TAX
tax_offer1_jurisdiction2_taxable=1240.00
tax_offer1_jurisdiction2_type=Special
tax_offer1_jurisdiction3_code=EMSJ0
tax_offer1_jurisdiction3_country=US
tax_offer1_jurisdiction3_name=ALAMEDA CO LOCAL TAX SL
tax_offer1_jurisdiction3_rate=0.010000
tax_offer1_jurisdiction3_region=CA
tax_offer1_jurisdiction3_tax_amount=12.40
tax_offer1_jurisdiction3_tax_name=CA SPECIAL TAX
tax_offer1_jurisdiction3_taxable=1240.00
tax_offer1_jurisdiction3_type=Special
tax_special_tax0=36.00
tax_special_tax1=37.20
tax_state_tax0=75.00
tax_state_tax1=77.50
tax_tax_amount0=114.00
tax_tax_amount1=117.80
tax_taxable_amount0=1200.00
tax_taxable_amount1=1240.00
tax_total_city_tax=0.00
tax_total_country_tax=0.00
tax_total_county_tax=6.10
tax_total_exempt_amount=0.00
tax_total_grand=2671.80
tax_total_special_tax=73.20
tax_total_state_tax=152.50
tax_total_tax=231.80
tax_total_taxable_amount=2440.00
bill_address1=123 Main St.
bill_city=Small Town
bill_country=us
bill_state=ca
bill_zip=98765
card_type=001
currency=usd
customer_cc_expmo=10

```

International Taxes and Value-Added Tax (VAT) Calculation

International taxes are calculated for countries other than the US. Specifically, some countries have a VAT, which is sales tax chargeable on most goods and services. A VAT seller registration number is assigned to sellers and required to calculate international taxes in most countries. International and VAT calculation is supported in specific countries. See [Supported Countries and Regions](#).

When you request the tax service and the product is being shipped to or consumed in one of the following countries, tax is calculated by default. The seller registration number is not required in order to calculate tax in these locations:

- Canada
- China
- Congo, Republic of the
- Congo, the Democratic Republic of the
- Lake Lugano, Territorial Waters of
- Lao People's Democratic Republic
- Macedonia, Republic of North
- South Georgia and the South Sandwich Islands
- United Kingdom
- United States

Calculating International Tax and VAT

Before calculating international tax, make sure that the country is on the list of [Supported Countries and Regions](#).

Important

One tax service request should not include more than 50 line items. When you send a request with more than 50 line items, the request could time out.

VAT Number

When you include the `or` field and VAT rules and rates are applicable, the service calculates a VAT tax, and the relevant tax amounts are returned in the response. There are some countries where VAT registration is not required. More details are mentioned in [Supported Countries and Regions](#).

Product Codes

If a product is subject to special tax considerations, provide the appropriate tax product code in the `field` in the request. To use a product code that is not listed in the available guides, contact customer support for information about how to proceed.

Tax Per Item

When the tax calculation service succeeds, the response includes a tax amount for each item and indicates whether the tax amount was calculated by the tax calculation service or provided by you.

Endpoint

Set the `ics_applications` field to `ics_tax`.

Send the request to `http://ics2.ic3.com`.

Required Fields for an International Tax and VAT Calculation Using the SCMP API

Use these fields to perform a tax calculation.

amount

bill_country

currency

ics_applications

Set to `ics_tax`.

merchant_vat_registration_number

Related information

- API Field Reference for the SCMP API

Optional Fields for an International Tax and VAT Calculation Using the SCMP API

Select from these optional fields to perform a tax calculation.

merchant_ref_number

auth_request_amount

Related information

- API Field Reference for the SCMP API

Example: Processing an International Tax Calculation Using the SCMP API

Request

```
amount=1200  
bill_country=FR  
currency=EUR  
merchant_vat_registration_number=123456789  
ics_applications=ics_tax
```

Response

```
currency=eur
```



```

ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_vat_registration_number=123456789
tax_city_tax0=0.00
tax_city_tax1=0.00
tax_country_tax0=0.00
tax_country_tax1=0.00
tax_county_tax0=3.00
tax_county_tax1=3.10
tax_exempt_amount0=0.00
tax_exempt_amount1=0.00
tax_offer0_jurisdiction0_code=06
tax_offer0_jurisdiction0_country=FR
tax_offer0_jurisdiction0_name=EU
tax_offer0_jurisdiction0_rate=0.062500
tax_offer0_jurisdiction0_region=EU
tax_offer0_jurisdiction0_tax_amount=75.00
tax_offer0_jurisdiction0_tax_name=EU TAX
tax_offer0_jurisdiction0_taxable=1200.00
tax_offer0_jurisdiction0_type=Country
tax_offer0_jurisdiction1_code=001
tax_offer0_jurisdiction1_country=FR
tax_offer0_jurisdiction1_name=ALAMEDA
tax_offer0_jurisdiction1_rate=0.002500
tax_offer0_jurisdiction1_region=FR
tax_offer0_jurisdiction1_tax_amount=3.00
tax_offer0_jurisdiction1_tax_name=FR COUNTY TAX
tax_offer0_jurisdiction1_taxable=1200.00
tax_offer0_jurisdiction1_type=County
tax_offer0_jurisdiction2_code=EMAK0
tax_offer0_jurisdiction2_country=US
tax_offer0_jurisdiction2_name=ALAMEDA COUNTY DISTRICT TAX SP
tax_offer0_jurisdiction2_rate=0.020000
tax_offer0_jurisdiction2_region=CA
tax_offer0_jurisdiction2_tax_amount=24.00
tax_offer0_jurisdiction2_tax_name=CA SPECIAL TAX
tax_offer0_jurisdiction2_taxable=1200.00
tax_offer0_jurisdiction2_type=Special
tax_offer0_jurisdiction3_code=EMSJ0
tax_offer0_jurisdiction3_country=US
tax_offer0_jurisdiction3_name=ALAMEDA CO LOCAL TAX SL
tax_offer0_jurisdiction3_rate=0.010000
tax_offer0_jurisdiction3_region=EU
tax_offer0_jurisdiction3_tax_amount=12.00
tax_offer0_jurisdiction3_tax_name=EU SPECIAL TAX
tax_offer0_jurisdiction3_taxable=1200.00
tax_offer0_jurisdiction3_type=Special

```

Tax Reporting

The tax reporting features are available for businesses who use the Cybersource Tax Calculation service. These features are used to populate the Tax Detail Report for tax reporting and reconciliation. They have no impact on the payment transactions. Tax Reporting features include these services:

- [Commit Tax Calculation](#) on page 20
- [Refund Tax Calculation](#) on page 27
- [Void Tax Calculation](#) on page 31

**Important**

One tax service request should not include more than 50 line items. When you send a request with more than 50 line items, the request could time out.

Commit Tax Calculation

Commit a tax calculation to indicate in the Tax Detail Report that the calculated tax amount in the tax request was added to a successful capture or refund transaction.

Tax Detail Report

The commit request will set the Status field in the Tax Detail Report to Committed.

Related concepts

- [Commit Tax Calculation Scenarios](#) on page 20
- [US and Canada Tax Commit](#) on page 21
- [International Tax and VAT Committed Tax Calculation](#) on page 25

Commit Tax Calculation Scenarios

You can commit tax calculation requests at different moments in a transaction.

Use these scenario examples to determine when it would be best for you to commit a tax calculation.

Possible scenarios:

- [Scenario 1: Pre-authorization](#) on page 21
- [Scenario 2: Post-capture](#) on page 21
- [Scenario 3: Partial Captures](#) on page 21

Scenario 1: Pre-authorization

You can commit a tax calculation request before requesting an authorization. For example:

1. Request the tax calculation service with the **tax_commit_indicator** field set to **Y**.
2. Authorize and capture payment.
3. If the authorization or capture fails, void the previously committed tax calculation request. See [Void Tax Calculation](#) on page 31.

Scenario 2: Post-capture

You can commit a tax request after a capture. If you implement the tax service in this way, you will have to request the tax calculation service at least twice per request. For example:

1. Request the tax calculation service with the commit indicator field set to **tax_commit_indicator** set to **N**.
2. Authorize and capture the payment.
3. If the authorization and capture are successful, request the tax calculation service with the **tax_commit_indicator** set to **Y**.

Scenario 3: Partial Captures

You can commit a tax request for partial captures. For example:

1. Request the tax calculation service with the commit indicator field set to **tax_commit_indicator** set to **N**.
2. Authorize the payment for \$0 or wait to authorize partial payments as items are transferred to the customer.
3. Implement [Scenario 1](#) or [Scenario 2](#) as you make authorizations and captures.

US and Canada Tax Commit

This section shows the fields necessary to commit US and Canadian tax calculation. To commit a tax calculation, include the **tax_commit_indicator** field set to **Y** in a tax calculation request.

Endpoint

Set the **ics_applications** field to **ics_tax**.

Send the request to <http://ics2.ic3.com>.

Required Fields for a Committed Tax Request Using the SCMP API

Use these fields to perform a committed tax request.

amount

bill_country

bill_zip

bill_city

bill_state

merchant_ref_number

nexus

If you include this field, do not include the **no_nexus** field.

no_nexus

If you include this field, do not include the **nexus** field.

tax_commit_indicator

Set to **Y**.

Related information

- [API Field Reference for the SCMP API](#)

Optional Fields for a Committed Tax Request Using the SCMP API

Select from these optional fields to commit a tax request.

amount

merchant_ref_number

tax_commit_indicator

Set field to **true** to commit tax calculation.

Related information

- [API Field Reference for the SCMP API](#)

Example: Processing a Committed Tax Request Using the SCMP API

Request

```
bill_address1=123 Main St.
bill_city=Small Town
bill_country=us
bill_state=ca
bill_zip=98765
card_type=001
currency=usd
customer_cc_expmo=10
```

```

customer_cc_expyr=2020
customer_cc_number=4111111111111111
customer_email=none@example.com
customer_firstname=cybs
customer_lastname=tester
ics_applications=ics_tax
merchant_id=infodev
merchant_ref_number=TAX_TC001
offer0=product_category:physical^merchant_product_sku:07-12-
00657^product_name:Chewing Gum^product_
code:PF050314^quantity:1^fulfillment_type:P^amount:1200.00
offer1=product_category:physical^merchant_product_sku:07-12-
00657^product_name:Chewing Gum^product_
code:50161815^quantity:1^fulfillment_type:P^amount:1200.00
offer2=product_category:physical^county_override_rate:0.0^merchant_
product_sku:07-12-00657^product_name:Carbonated Water^product_
code:5020.110^quantity:1^fulfillment_type:P^amount:9001.00
seller_registration=abcdef
ship_from_address=Bayside Cottage
ship_from_city=Cambridge Bay
ship_from_country=ca
ship_from_state=NL
ship_from_zip=A0G 1T0
ship_to_address1=123 Russell St.
ship_to_city=Little Village
ship_to_country=us
ship_to_state=FL
ship_to_zip=34567
show_tax_per_offer=yes
tax_commit_indicator=Y

```

Response

```

tax_offer2_jurisdiction0_type=State
tax_offer1_jurisdiction1_code=099
tax_rmsg=Tax service was successful.
tax_total_country_tax=0.00
tax_total_special_tax=0.00
tax_offer1_jurisdiction0_type=State
tax_total_taxable_amount=11401.00
tax_offer0_jurisdiction1_code=099
tax_offer2_jurisdiction0_rate=0.060000
currency=usd
tax_offer0_jurisdiction0_type=State
tax_offer2_jurisdiction0_name=FLORIDA
tax_offer1_jurisdiction0_rate=0.060000
tax_offer1_jurisdiction1_taxable=1200.00
tax_offer1_jurisdiction0_country=US
tax_offer1_jurisdiction0_name=FLORIDA
tax_offer0_jurisdiction0_rate=0.060000
tax_offer0_jurisdiction1_country=US
tax_offer2_jurisdiction1_tax_amount=50.00
tax_offer0_jurisdiction0_taxable=1200.00
tax_offer0_jurisdiction0_name=FLORIDA
tax_offer2_jurisdiction1_type=County
tax_offer1_jurisdiction1_type=County

```



```

tax_offer2_jurisdiction1_region=FL
tax_total_state_tax=684.06
tax_total_exempt_amount=0.00
tax_offer2_jurisdiction1_rate=0.0100000
tax_offer0_jurisdiction1_type=County
tax_tax_commit_indicator=Y
ics_rflag=SOK
tax_offer1_jurisdiction1_rate=0.0100000
tax_offer2_jurisdiction1_name=PALM BEACH
tax_offer1_jurisdiction1_tax_name=FL COUNTY TAX
tax_offer1_jurisdiction0_tax_amount=72.00
tax_total_grand=12159.06
tax_country_tax2=0.00
tax_offer0_jurisdiction1_rate=0.0100000
tax_country_tax1=0.00
tax_offer1_jurisdiction1_name=PALM BEACH
tax_country_tax0=0.00
tax_offer1_jurisdiction1_region=FL
tax_offer0_jurisdiction1_name=PALM BEACH
tax_offer2_jurisdiction0_tax_name=FL STATE TAX
tax_exempt_amount2=0.00
tax_exempt_amount1=0.00
tax_exempt_amount0=0.00
tax_total_city_tax=0.00
tax_tax_amount2=590.06
tax_tax_amount1=84.00
tax_tax_amount0=84.00
tax_offer0_jurisdiction1_region=FL
tax_offer2_jurisdiction1_taxable=5000.00
tax_offer2_jurisdiction0_country=US
tax_offer1_jurisdiction1_country=US
tax_offer1_jurisdiction1_tax_amount=12.00
tax_total_tax=758.06
tax_offer0_jurisdiction1_tax_name=FL COUNTY TAX
tax_state_tax2=540.06
tax_state_tax1=72.00
tax_state_tax0=72.00
tax_rflag=SOK
ics_rcode=1
tax_offer1_jurisdiction0_tax_name=FL STATE TAX
tax_offer1_jurisdiction0_taxable=1200.00
tax_offer0_jurisdiction0_tax_amount=72.00
tax_offer0_jurisdiction1_taxable=1200.00
tax_offer0_jurisdiction0_country=US
tax_offer2_jurisdiction0_region=FL
tax_city_tax2=0.00
tax_city_tax1=0.00
tax_city_tax0=0.00
tax_total_county_tax=74.00
tax_special_tax2=0.00
ics_rmsg=Request was processed successfully.
tax_special_tax1=0.00
tax_special_tax0=0.00
tax_offer1_jurisdiction0_region=FL
merchant_ref_number=TAX_TC001
tax_offer2_jurisdiction0_code=12

```

```

tax_offer1_jurisdiction0_code=12
tax_county_tax2=50.00
tax_county_tax1=12.00
tax_county_tax0=12.00
tax_offer0_jurisdiction1_tax_amount=12.00
tax_offer0_jurisdiction0_code=12
tax_offer2_jurisdiction0_tax_amount=540.06
tax_offer0_jurisdiction0_tax_name=FL STATE TAX
tax_taxable_amount2=9001.00
tax_taxable_amount1=1200.00
tax_taxable_amount0=1200.00
tax_rcode=1
tax_offer2_jurisdiction1_tax_name=FL COUNTY TAX
tax_offer2_jurisdiction1_country=US
tax_offer0_jurisdiction0_region=FL
tax_offer2_jurisdiction1_code=099
request_id=123456789

```

International Tax and VAT Committed Tax Calculation

Use a committed tax calculation to include the owed tax amount with a capture. To commit a tax calculation, include the **tax_commit_indicator** field set to **Y** in a tax calculation request.

Endpoint

Set the **ics_applications** field to **ics_tax**.
Send the request to <http://ics2.ic3.com>.

Required Fields for an International Tax and VAT Committed Tax Calculation Using the SCMP API

Use these fields to perform a committed tax request.

amount

bill_country

ics_applications

Set to **ics_tax**.

currency

tax_commit_indicator

Set to **Y**.

Related information

- [API Field Reference for the SCMP API](#)

Optional Fields for an International Tax and VAT Committed Tax Calculation Using the SCMP API

Use these fields to perform a committed tax request.

auth_request_amount

bill_country**merchant_ref_number****tax_commit_indicator**

Related information

- [API Field Reference for the SCMP API](#)

Example: Processing an International Tax and VAT Committed Tax Calculation Using the SCMP API

Request

```
amount=1200
bill_country=FR
currency=EUR
merchant_vat_registration_number=123456789
ics_applications=ics_tax
```

Response

```
currency=eur
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_vat_registration_number=123456789
tax_city_tax0=0.00
tax_city_tax1=0.00
tax_country_tax0=0.00
tax_country_tax1=0.00
tax_county_tax0=3.00
tax_county_tax1=3.10
tax_exempt_amount0=0.00
tax_exempt_amount1=0.00
tax_offer0_jurisdiction0_code=06
tax_offer0_jurisdiction0_country=FR
tax_offer0_jurisdiction0_name=EU
tax_offer0_jurisdiction0_rate=0.062500
tax_offer0_jurisdiction0_region=EU
tax_offer0_jurisdiction0_tax_amount=75.00
tax_offer0_jurisdiction0_tax_name=EU TAX
tax_offer0_jurisdiction0_taxable=1200.00
tax_offer0_jurisdiction0_type=Country
tax_offer0_jurisdiction1_code=001
tax_offer0_jurisdiction1_country=FR
tax_offer0_jurisdiction1_name=ALAMEDA
tax_offer0_jurisdiction1_rate=0.002500
tax_offer0_jurisdiction1_region=FR
tax_offer0_jurisdiction1_tax_amount=3.00
tax_offer0_jurisdiction1_tax_name=FR COUNTY TAX
tax_offer0_jurisdiction1_taxable=1200.00
tax_offer0_jurisdiction1_type=County
tax_offer0_jurisdiction2_code=EMAK0
```

```

tax_offer0_jurisdiction2_country=US
tax_offer0_jurisdiction2_name=ALAMEDA COUNTY DISTRICT TAX SP
tax_offer0_jurisdiction2_rate=0.020000
tax_offer0_jurisdiction2_region=CA
tax_offer0_jurisdiction2_tax_amount=24.00
tax_offer0_jurisdiction2_tax_name=CA SPECIAL TAX
tax_offer0_jurisdiction2_taxable=1200.00
tax_offer0_jurisdiction2_type=Special
tax_offer0_jurisdiction3_code=EMSJ0
tax_offer0_jurisdiction3_country=US
tax_offer0_jurisdiction3_name=ALAMEDA CO LOCAL TAX SL
tax_offer0_jurisdiction3_rate=0.010000
tax_offer0_jurisdiction3_region=EU
tax_offer0_jurisdiction3_tax_amount=12.00
tax_offer0_jurisdiction3_tax_name=EU SPECIAL TAX
tax_offer0_jurisdiction3_taxable=1200.00
tax_offer0_jurisdiction3_type=Special

```

Refund Tax Calculation

A refund tax calculation is a request that sets the transaction type field in the Tax Detail Report to refunded and makes the reported amount negative. Tax amounts are returned as positive amounts in response messages, but they are saved in reports as negative amounts. The tax software enables you to accurately calculate the aggregate amounts. You can also commit a refund tax calculation to include the refunded tax amount with a payment refund.

Tax Detail Report

The refund request will set the Transaction Type field to Refund in the Tax Detail Report and will make the value of the Tax Amount negative.

Fields specific to this Use Case

Include the following information with a standard refund tax calculation request when you want to include the refund request to your Tax Detail Report:

- To commit a tax calculation refund request, set the **tax_refund_indicator** field to **Y**.
- To apply the same rate from the day of the original transaction, set the **invoice_date** field to the original transaction date.

Endpoint

Set the **ics_applications** field to **ics_tax**.

Send the request to <http://ics2.ic3.com>.

Refund Tax Calculation Scenarios

You can report a refund tax calculation at different moments in a transaction.

Use these scenario examples to determine when you should report refund a tax calculation.

Possible scenarios:

- [Scenario 1: Full or Partial Refund](#) on page 28
- [Scenario 2: Stand-alone Credit](#) on page 28

Scenario 1: Full or Partial Refund

You can refund a tax calculation request before requesting an authorization if you have access to the original transaction data. For example:

1. Refund the full or partial amount of the original transaction.
2. If the refund is successful, request the tax calculation service for the refunded item(s) and include the refund indicator by using the **tax_refund_indicator** field set to **Y**.

Scenario 2: Stand-alone Credit

You can credit a transaction if you do not have access to the original transaction data. For example:

1. Request the tax service with the **tax_refund_indicator** field set to **Y**.
2. Credit the payment.



Note

You can include the commit indicator by setting the field to **Y** to indicate the credit was successfully processed in the Tax Detail Report. The commit indicator can also be sent during the first tax service request, such as [Scenario 1](#), or in subsequent tax service requests, such as [Scenario 2](#). If the credit fails, void the previously committed tax service request. See [Void Tax Calculation](#) on page 31.

Required Fields for a Tax Refund Calculation Using the SCMP API

Use these fields to perform a tax refund calculation.

amount

bill_city

bill_country

bill_state

bill_zip

ics_applications

Set to **ics_tax**.

invoice_date

Set this field to original transaction date.

merchant_ref_number

nexus

If you include this field, do not include the **nexus** field.

no_nexus

If you include this field, do not include the no_nexus field.

tax_refund_indicator

Set the value of this field to **Y**.

Related information

- [API Field Reference for the SCMP API](#)

Example: Processing a Tax Refund Calculation Using the SCMP API

Request

```
customer_cc_expyr=2020
customer_cc_number=4111111111111111
customer_email=none@example.com
customer_firstname=cybs
customer_lastname=tester
ics_applications=ics_tax
merchant_id=infodev
merchant_ref_number=TAX_TC001
offer0=product_category:physical^merchant_product_sku:07-12-00657^product_name:Chewing Gum^product_code:PF050314^quantity:1^fulfillment_type:P^amount:1200.00
offer1=product_category:physical^merchant_product_sku:07-12-00657^product_name:Chewing Gum^product_code:50161815^quantity:1^fulfillment_type:P^amount:1200.00
offer2=product_category:physical^county_override_rate:0.0^merchant_product_sku:07-12-00657^product_name:Carbonated Water^product_code:5020.110^quantity:1^fulfillment_type:P^amount:9001.00
seller_registration=abcdef
ship_from_address=Bayside Cottage
ship_from_city=Cambridge Bay
ship_from_country=ca
ship_from_state=NL
ship_from_zip=A0G 1T0
ship_to_address1=123 Russell St.
ship_to_city=Little Village
ship_to_country=us
ship_to_state=FL
ship_to_zip=34567
show_tax_per_offer=yes
tax_refund_indicator=Y
```

Response

```
tax_offer2_jurisdiction0_type=State
tax_offer1_jurisdiction1_code=099
tax_rmsg=Tax service was successful.
tax_total_country_tax=0.00
tax_total_special_tax=0.00
tax_offer1_jurisdiction0_type=State
tax_total_taxable_amount=11401.00
tax_offer0_jurisdiction1_code=099
tax_offer2_jurisdiction0_rate=0.060000
```

```

currency=usd
tax_offer0_jurisdiction0_type=State
tax_offer2_jurisdiction0_name=FLORIDA
tax_offer1_jurisdiction0_rate=0.060000
tax_offer1_jurisdiction1_taxable=1200.00
tax_offer1_jurisdiction0_country=US
tax_offer1_jurisdiction0_name=FLORIDA
tax_offer0_jurisdiction0_rate=0.060000
tax_offer0_jurisdiction1_country=US
tax_tax_refund_indicator=Y
tax_offer2_jurisdiction1_tax_amount=50.00
tax_offer0_jurisdiction0_taxable=1200.00
tax_offer0_jurisdiction0_name=FLORIDA
tax_offer2_jurisdiction1_type=County
tax_offer1_jurisdiction1_type=County
tax_offer2_jurisdiction1_region=FL
tax_total_state_tax=684.06
tax_total_exempt_amount=0.00
tax_offer2_jurisdiction1_rate=0.010000
tax_offer0_jurisdiction1_type=County
ics_rflag=SOK
tax_offer1_jurisdiction1_rate=0.010000
tax_offer2_jurisdiction1_name=PALM BEACH
tax_offer1_jurisdiction1_tax_name=FL COUNTY TAX
tax_offer1_jurisdiction0_tax_amount=72.00
tax_total_grand=12159.06
tax_country_tax2=0.00
tax_offer0_jurisdiction1_rate=0.010000
tax_country_tax1=0.00
tax_offer1_jurisdiction1_name=PALM BEACH
tax_country_tax0=0.00
tax_offer1_jurisdiction1_region=FL
tax_offer0_jurisdiction1_name=PALM BEACH
tax_offer2_jurisdiction0_tax_name=FL STATE TAX
tax_exempt_amount2=0.00
tax_exempt_amount1=0.00
tax_exempt_amount0=0.00
tax_total_city_tax=0.00
tax_tax_amount2=590.06
tax_tax_amount1=84.00
tax_tax_amount0=84.00
tax_offer0_jurisdiction1_region=FL
tax_offer2_jurisdiction1_taxable=5000.00
tax_offer2_jurisdiction0_country=US
tax_offer1_jurisdiction1_country=US
tax_offer1_jurisdiction1_tax_amount=12.00
tax_total_tax=758.06
tax_offer0_jurisdiction1_tax_name=FL COUNTY TAX
tax_state_tax2=540.06
tax_state_tax1=72.00
tax_state_tax0=72.00
tax_rflag=SOK
ics_rcode=1
tax_offer1_jurisdiction0_tax_name=FL STATE TAX
tax_offer1_jurisdiction0_taxable=1200.00
tax_offer0_jurisdiction0_tax_amount=72.00

```

```

tax_offer0_jurisdiction1_taxable=1200.00
tax_offer0_jurisdiction0_country=US
tax_offer2_jurisdiction0_region=FL
tax_city_tax2=0.00
tax_city_tax1=0.00
tax_city_tax0=0.00
tax_total_county_tax=74.00
tax_special_tax2=0.00
ics_rmsg=Request was processed successfully.
tax_special_tax1=0.00
tax_special_tax0=0.00
tax_offer1_jurisdiction0_region=FL
merchant_ref_number=TAX_TC001
tax_offer2_jurisdiction0_code=12
tax_offer1_jurisdiction0_code=12
tax_county_tax2=50.00
tax_county_tax1=12.00
tax_county_tax0=12.00
tax_offer0_jurisdiction1_tax_amount=12.00
tax_offer0_jurisdiction0_code=12
tax_offer2_jurisdiction0_tax_amount=540.06
tax_offer0_jurisdiction0_tax_name=FL STATE TAX
tax_taxable_amount2=9001.00
tax_taxable_amount1=1200.00
tax_taxable_amount0=1200.00
tax_rcode=1
tax_offer2_jurisdiction1_tax_name=FL COUNTY TAX
tax_offer2_jurisdiction1_country=US
tax_offer0_jurisdiction0_region=FL
tax_offer2_jurisdiction1_code=099
request_id=123456789

```

Void Tax Calculation

Use the void tax calculation request to indicate when a previously committed tax transaction either:

- Was not successfully captured or refunded
- Was successfully voided

This feature can only be used to void the full original tax service request. It cannot be used to void a single line item.

Contact customer support to have your account enabled to test this feature in the Cybersource Developer Center.

Tax Detail Report

When you void a tax calculation request, a line item is added to the Tax Detail Report with a **Cancelled** value in the **Status** field. The cancelled line item will have a request ID of the original committed transaction in the **LinkToRequestID** field. Use the value of the

LinkToRequestID to identify the original tax amounts that were not successfully debited or credited from a cardholder bank account.

Endpoint

Set the `ics_applications` field to `ics_void`.

Send the request to `http://ics2.ic3.com`.

Required Field for a Tax Void Using the SCMP API

Use these fields to perform a tax void.

merchant_id

merchant_ref_number

ics_applications

Set the value of this field to `ics_void`.

void_request_id

Related information

- API Field Reference for the SCMP API

Example: Processing a Tax Void Using the SCMP API

Request

```
currency=USD
merchant_id=123
merchant_ref_number=321
void_request_id=5851537837656493803043
```

Response

```
merchant_ref_number=ABC123
request_id=580513792226113003096
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
void_rcode=1
void_rflag=SOK
void_rmsg=Request was processed successfully.
void_void_request_time=2020-01-31T233632Z
void_void_amount=100.00
void_void_currency=usd
```

Supported Countries and Regions

Supported Countries and Regions

Afghanistan	Lebanon
Albania	Lesotho
Algeria	Liberia
Andorra	Libyan Arab Jamahiriya
Angola	Liechtenstein
Anguilla	Lithuania
Antigua and Barbuda	Livigno
Argentina	Luxembourg
Armenia	Macau
Aruba	Macedonia, the Former Yugoslav Republic of
Australia	Madagascar
Austria	Malawi
Azerbaijan	Malaysia
Bahamas	Maldives
Bahrain	Mali
Bangladesh	Malta
Barbados	Marshall Islands
Belarus	Mauritania
Belgium	Mauritius

Belize	Mayotte
Benin	Mexico
Bermuda	Micronesia
Bhutan	Moldova
Bolivia	Monaco
Bosnia and Herzegovina	Mongolia
Botswana	Montenegro
British Indian Ocean Territory	Montserrat
Brunei Darussalam	Morocco
Bulgaria	Mozambique
Burkina Faso	Myanmar
Burundi	Namibia
Cambodia	Nauru
Cameroon	Nepal
Campione D'Italia	Netherlands
Canada	New Caledonia
Canary Islands	New Zealand
Cape Verde	Nicaragua
Caribbean Netherlands (Bonaire)	Niger
Caribbean Netherlands (Sint Eustatius and Saba)	Nigeria
Cayman Islands	Niue
Central African Republic	Norway
Chad	Oman
Chile	Pakistan
ChinaRegional tax is not supported in China . Tax determination defaults to the federal tax rate.	Palau
Christmas Island	Palestine Occupied Territory
Cocos (Keeling) Islands	Panama
Colombia	Papua New Guinea
Comoros	Paraguay

Congo, Republic of the	Peru
Congo, The Democratic Republic of the	Philippines
Coral Sea Islands	Pitcairn Islands
Costa Rica	Poland
Cote D'Ivoire	Portugal
Croatia	Puerto Rico
Curacao	Qatar
Cyprus	Republic of Korea (South Korea)
Czech Republic	Romania
Denmark	Russian Federation
Djibouti	Rwanda
Dominica	Saint Helena
Dominican Republic	Saint Kitts and Nevis
Ecuador	Saint Lucia
El Salvador	Saint Martin
Equatorial Guinea	Saint Pierre and Miquelon
Eritrea	Saint Vincent and the Grenadines
Estonia	Samoa
Ethiopia	San Marino
Falkland Islands (Malvinas)	Sao Tome and Principe
Faroe Islands	Saudi Arabia
Fiji	Senegal
Finland (includes Aland Island)	Serbia
France	Seychelles
French Guiana	Sierra Leone
French Polynesia	Singapore
French Southern Territories	Sint Maarten
Gabon	Slovakia
Gambia	Slovenia
Georgia	Somalia
Germany	South Africa

Ghana	South Georgia and the South Sandwich Islands
Gibraltar	Spain
Greece	Sri Lanka
Greenland	Suriname
Grenada	Svalbard and Jan Mayen
Guadeloupe	Swaziland
Guam	Sweden
Guatemala	Switzerland
Guernsey	Taiwan
Guinea	Tajikistan
Guinea-Bissau	Tanzania
Guyana	Thailand
Haiti	Timor-Leste
Heligoland	Togo
Holy See	Tokelau
Honduras	Tonga
Hong Kong	Trinidad and Tobago
Hungary	Tunisia
Iceland	Turkey
Indonesia	Turkmenistan
Iraq	Turks and Caicos Islands
Ireland	Tuvalu
Israel	Uganda
Italy	Ukraine
Jamaica	United Arab Emirates
Japan	United Kingdom
Jersey	United States
Jordan	Uruguay
Kazakhstan	Uzbekistan
Kenya	Vanuatu
Kiribati	Venezuela

Kosovo	Vietnam
Kuwait	Virgin Islands, British
Kyrgyzstan	Wallis and Futuna
Lake Lugano, Territorial Waters of	Yemen
Lao People's Democratic Republic	Zambia
Latvia	Zimbabwe

City Abbreviations

Several applications expand some commonly used city-name abbreviations, which enables the tax calculation service to correctly evaluate city names for tax purposes. The US Postal Service also maintains a list of common abbreviations. When a customer uses abbreviations not accepted by either entity, the tax calculation service might not recognize the combination of city, state, and postal code, in which case the request fails and returns a reason code of **DINVALIDADDRESS**.

The following table provides a list of the abbreviations used by the tax calculation service and the US Postal Service.

Expanded City Abbreviations

Abbreviation	Expansion	Abbreviation	Expansion
bch	beach	n	north
crk	creek	ny	new york
cty	city	pk	park
cyn	canyon	pkwy	parkway
e	east	pt	point
ft	fort	s	south
grdn	garden	sf	san francisco
hbr	harbor	st (only for the US country code)	saint
hgts, hts	heights	spr	spring
jct, jctn	junction	sprs	springs
la	los angeles	vly	valley
mt, mtn	mountain	w	west