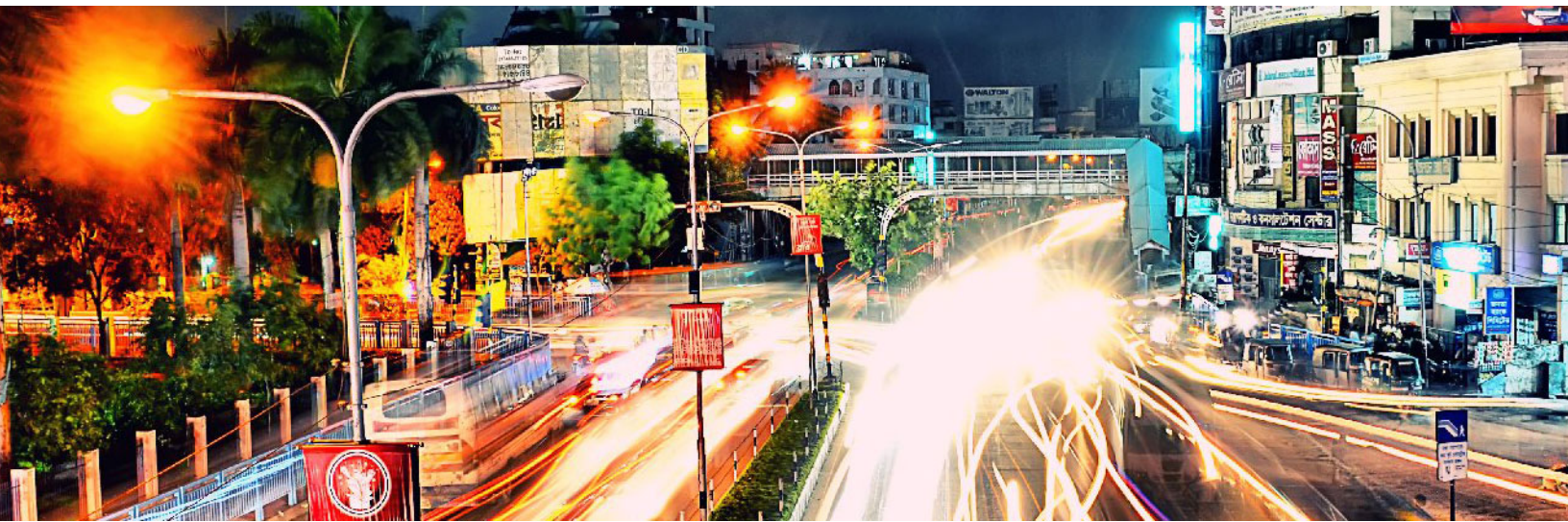


Tax Calculation Service

Using the SCMP API



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Cybersource Contact Information

For general information about our company, products, and services, go to <http://www.cybersource.com>.

For sales questions about any Cybersource service, email sales@cybersource.com or call 650-432-7350 or 888-330-2300 (toll free in the United States).

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

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

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Contents

Recent Revisions to This Document 5

About This Guide 6

Audience and Purpose 6

Conventions 6

 Important Statements 6

 Text and Command Conventions 6

Related Documents 7

Customer Support 7

Chapter 1 Introduction to Tax Calculation 8

Overview of Tax Calculation 8

 Terminology 9

 Business Center 10

 U.S. Sales Tax 10

 Canadian Taxes 11

 International Taxes and Value-Added Tax (VAT) 11

Planning for Tax Calculation 12

 Tax Nexus 12

 Product Codes 13

 U.S. and Canadian Taxable Products 13

 International and VAT Tax 13

 When to Calculate Taxes 14

 Multiple Shipping Destinations in a Single Order 14

 Tax Consultation Services 14

Maximum Line Items 15

Relaxed Requirements for Address Data and Expiration Date 15

Chapter 2	Requesting Tax Calculation	16
	Requesting the Tax Calculation Service	16
	Calculating U.S. and Canadian Tax	17
	Calculating International Tax and VAT	18
	Missing Origin Addresses	19
	Invalid Address Combination Correction	19
	Tax Reporting	19
	Committed Tax Request	19
	Refund Tax Request	19
	Void Tax Request	20
	Committed Tax Scenarios	21
	Scenario 1	21
	Scenario 2	21
	Partial Capture Scenario	21
	Committed Refund Scenario	22
	Related Links	22
	Testing	22

Appendix A	API Fields	23
	Formatting Requirements	23
	Data Type Definitions	23
	Request-Level Fields	24
	Offer-Level Fields	34
	Reply Fields	37

Appendix B	Examples	41
	Basic Tax and Refund Calculation Examples	41
	Tax Report Examples	47
	Tax Void Example	53

Appendix C	Reply Flags	54
-------------------	--------------------	-----------

Appendix D	Supported Countries and Regions	55
-------------------	--	-----------

Appendix E	City Abbreviations	59
-------------------	---------------------------	-----------

Recent Revisions to This Document

Release	Changes
August 2020	<p>Updated "Terminology," page 9.</p> <p>Updated "International Taxes and Value-Added Tax (VAT)," page 11.</p> <p>Updated "Committed Tax Scenarios," page 21.</p>
February 2020	<p>Added information about requesting the void service. See "Void Tax Request," page 20</p> <p>Added an example for the void service. See "Tax Void Example," page 53.</p>
January 2020	This revision contains only editorial changes and no technical updates.
November 2019	This revision contains only editorial changes and no technical updates.
October 2019	<p>Added information about VAT requirements to "International Taxes and Value-Added Tax (VAT)," page 11.</p> <p>Updated information about specifying states that have nexus and states that do not have nexus in "Tax Nexus," page 12.</p> <p>Updated descriptions for the following fields. See "Request-Level Fields," page 24.</p> <ul style="list-style-type: none"> ■ tax_commit_indicator ■ tax_refund_indicator ■ tax_reporting_date
May 2019	<p>Revised content about committed tax calls and refund tax calls. See "Tax Reporting," page 19.</p> <p>Added content about the results of omitting the following shipping address fields from requests (see "Request-Level Fields," page 24):</p> <ul style="list-style-type: none"> ■ ship_to_city ■ ship_to_country ■ ship_to_state ■ ship_to_zip

About This Guide

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 reply fields to integrate the tax calculation service into an existing order management system.

Conventions

Important Statements



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

Text and Command Conventions

The following text conventions are used in this document:

Table 1 Text Conventions

Convention	Meaning
bold	Field and service names in text; for example: Include the ics_applications field.
<i>italic</i>	Titles of documents

Table 1 Text Conventions

Convention	Meaning
Screen text	<ul style="list-style-type: none"> ■ XML elements ■ Code examples ■ Values for API fields; for example: Set the ics_applications field to <code>ics_auth</code>.

Related Documents

- *Getting Started with Cybersource Advanced for the SCMP API* describes how to get started using the SCMP API. ([PDF](#) | [HTML](#))
- *Credit Card Services Using the SCMP API* explains how to use the SCMP API to access credit card services. ([PDF](#) | [HTML](#))
- *Electronic Check Services Using the SCMP API* describes how to process electronic check orders. ([PDF](#) | [HTML](#))
- *Getting Started with Cybersource Advanced for the SCMP API* describes how to get started using the SCMP API. ([PDF](#) | [HTML](#))
- *The Business Center Reporting User Guide* describes how to download reports. ([PDF](#) | [HTML](#))

Refer to the Support Center for complete technical documentation:

<https://www.cybersource.com/en-us/support/technical-documentation.html>

Customer Support

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

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

Introduction to Tax Calculation

Overview of Tax Calculation

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



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.

The service determines the following types of taxes:

- U.S. sales taxes
- Canadian Goods and Services Tax (GST)
- Canadian Provincial Sales Tax (PST)
- Canadian Harmonized Sales Tax (HST)
- Quebec Sales Tax (QST)
- International (non-U.S./Canadian) and Value-Added Tax (VAT)

The calculation is based on the location of the customer's taxing jurisdiction, your nexus locations, and the tax and 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.

Terminology

Table 2 Tax Service Terminology

Term	Description
Canadian Goods and Services Tax (GST)	Canadian value-added tax levied on most goods and services sold for domestic consumption. The GST is paid by consumers, but it is levied and remitted to the government by businesses selling the goods and services.
Canadian Harmonized Sales Tax (HST)	Consumption tax in Canada. Used in provinces where both the federal goods and services tax (GST) and the regional provincial sales tax (PST) have been combined into a single value-added sales tax.
Canadian Provincial Sales Tax (PST)	Sales tax levied by the provinces in Canada.
Canadian Quebec Sales Tax (QST)	Value added tax levied in the province of Quebec.
Committed tax call	Tax amount added to an authorization, capture or a credit; collected from or refunded to a payment account.
Jurisdiction	An area subject to its own distinct tax regulations, such as a municipality, province, city, county, or country.
Point-of-order acceptance	The place of business where you accept the customer's order, thereby becoming contractually obligated to make the sale.
Point-of-order origin	The location of the buyer when placing the order.
Product codes	Numbers unique to the tax service that specify the product you are selling in order to trigger product-based rules and exemptions.
Refund tax call	Calculates the amount that is applied to a credit; flagged as a refund in the Tax Detail Report.
Seller	Merchant who sells products that are subject to a tax.

Table 2 Tax Service Terminology (Continued)

Term	Description
Seller registration	Value-added Tax (VAT) identification number assigned to a merchant.
Tax holiday	Time period during which taxes are temporarily reduced or eliminated. Governments create tax holidays to promote consumer spending.
Tax nexus	The connection between a business within a tax jurisdiction such that the taxing locality has authority to require the business to comply with the tax statutes and regulations of the jurisdiction. For more information about tax liability, consult your tax specialist or attorney.
Value-added tax (VAT)	Consumption tax calculated as a percentage of the sales price. The tax is levied on the seller of a product (passed on to the consumer in the total price) for only the amount of value they add to it; the seller may deduct the amount of VAT paid previously to acquire the product. See "International Taxes and Value-Added Tax (VAT)," page 11.

Business Center

Use the Business Center to:

- 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 that 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 Links

["Supported Countries and Regions," page 55](#)

<https://ebctest.cybersource.com>

<https://ebc.cybersource.com>

U.S. Sales Tax

Sales tax is imposed on a transfer of property. Some states do not have sales tax. For U.S. orders, the tax calculation service includes sales tax in the total tax value and divides it into state, county, city, and special levels.

Canadian Taxes

GST is administered by the federal government and is equivalent to U.S. sales tax. Canadian goods and services can also be subject to HST, PST, and QST.

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.

Related Link

["Terminology," page 9](#)

International Taxes and Value-Added Tax (VAT)

International taxes are calculated for countries other than the U.S. Specifically, some countries have a VAT, which is sales tax chargeable on most goods and services. A VAT seller registration number is assigned to merchants and used to calculate international taxes. International and VAT calculation is supported in specific countries.

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 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, the Former Yugoslav Republic of
- South Georgia and the South Sandwich Islands
- United Kingdom
- United States

Related Link

["Supported Countries and Regions," page 55](#)

Planning for Tax Calculation

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

- A which point in the transaction you will calculate taxes. See ["When to Calculate Taxes," page 14.](#)
- How to comply with sales tax laws in the U.S. and Canada and tax registration laws for international tax and VAT.
- Your tax nexus for U.S. and Canadian tax.
- Whether any products require special product codes for tax purposes.
- Whether you want to apply your own tax calculations for international tax and VAT.



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

Related Links

["Calculating U.S. and Canadian Tax," page 17](#)

["Calculating International Tax and VAT," page 18](#)

["Product Codes," page 13](#)

["Tax Nexus," page 12](#)

Tax Nexus

When your company has *nexus* in the U.S. or Canada, you might be required to collect sales tax or seller's 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 U.S. or Canada such as office space, warehouse space, paid staff, or inventory.
- Your company sells a sufficiently large volume of goods in the U.S. 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.



In your tax calculation service request, specify the states in which you have nexus by populating the **nexus** and **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.

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. Product codes are listed in the *Tax Product Code Guide* and available by contacting customer support.

U.S. and Canadian Taxable Products

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 *Tax Product Code Guide* available from contact customer support.

For example, software that is distributed electronically is exempt from tax in many states. When you sell electronic software and have nexus in any of these states and do not include a product code, the tax calculation service incorrectly calculates tax for these states because it does not recognize the exemption.

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 **tax_amount** field.

International and VAT Tax

For a list of the international and VAT product codes in the *Tax Product Code Guide* or how to proceed when a product code is not listed in the guide, contact customer support.

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.



As you determine how and where to implement the Tax Calculation Service on your web site, consider that the global tax calculation is billable per each request. To offset your costs and optimize your pricing, consider waiting to request a tax calculation after your customer is 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 tax holidays, some states require you to apply the tax rate from the day of the actual purchase and not the day that the item is shipped. Work with your tax advisor to determine when to calculate the tax.

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.

Tax Consultation Services

Cybersource does not provide tax consultation services.



Due to the dynamic nature and complex intricacies of tax laws, especially at the local and municipal levels, automated tax calculation systems have inherent limitations that can affect the accuracy of returned tax rates in certain situations.

Automated tax calculation systems typically rely on city, state, and postal code to determine the applicable tax rate. However, a small number of local taxing jurisdictions within the United States assess taxes based on less common jurisdictional boundary criteria, especially in unincorporated areas. For example, tax rates can vary by jurisdiction as exercised by a specific police precinct. This occurs in a very small number of cases, but you need to educate your customer service staff so they can address the issue when it arises.

It is strongly recommended that you consult your tax professional to make sure you are in compliance with the tax laws.

Maximum Line Items

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.

Relaxed Requirements for Address Data and Expiration Date

To enable relaxed requirements for address data and expiration date, contact CyberSource Customer Support to have your account configured for this feature. For details about relaxed requirements, see the [Relaxed Requirements for Address Data and Expiration Date page](#).

The preceding information is included in all integration guides. Bill-to address information is required for tax calculation. It is recommended that you include additional address data for the most accurate tax calculation.

Related Links

["Calculating International Tax and VAT," page 18](#)

["Calculating U.S. and Canadian Tax," page 17](#)

Requesting Tax Calculation

Requesting the Tax Calculation Service

To request the tax calculation service, set the **ics_applications** field to `ics_tax`.

When requesting the tax calculation service, do not include the following services in the request:

- Full authorization reversal (**ics_auth_reversal**)
- Risk update (**ics_risk_update**)

To submit the total tax instead of having the tax calculation service calculate tax for the offer, use the **tax_amount** offer-level field. The **tax_amount** value is returned in the **tax_tax_amount0...N** reply field.

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



Information about tax calculation service requests and tax calculation transactions is not stored for you. It is your responsibility to store the results and report to any relevant taxing jurisdiction.

Related Link

["API Fields," page 23](#)

Calculating U.S. and Canadian Tax

Identify the location of your company's nexus. Products are taxable only when the customer's **ship_to_state** value matches a state or province in which your company has nexus. 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. 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.

Make sure that you understand whether the product is exempt from tax or subject to special tax considerations. When it is the latter, provide the appropriate tax product code in the **product_code** 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.

Determine when you will provide tax calculations during the customer transaction. Tax calculation can occur before or after determining the final order total.

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

- Ship-to address, in fields beginning with **ship_to_**
When multiple cities are within a postal code area, the optional request field **ship_to_city** value improves the accuracy of the calculated tax.
- Ship-from address, in fields beginning with **ship_from_**
- Point-of-order acceptance, in fields beginning with **order_acceptance_**
- Point-of-order origin, in fields beginning with **order_origin_**
- 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 reply includes the **tax_tax_amount0...N** field. When the optional request-level field **show_tax_per_offer** is set to `yes`, the reply also includes the following fields for each offer:

- **tax_city_tax0...N**
- **tax_country_tax0...N**
- **tax_county_tax0...N**

- `tax_special_tax0...N`
- `tax_state_tax0...N`
- `tax_offer#_jurisdiction#_...` fields that provide detailed tax information

The total tax value reported can be slightly higher or lower than the correct amount because the service separately determines city, county, state, country, and special taxes, rounds off these values to the nearest cent, and then sums these parts to arrive at the total tax value. 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 (not 0.85) based on amounts of 0.13 city tax, 0.13 county tax, and 0.60 state tax.

Related Links

["Examples," page 41](#)

["Product Codes," page 13](#)

["Reply Fields," page 37](#)

["Terminology," page 9](#)

Calculating International Tax and VAT

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

When you include the request-level or offer-level **seller_registration** field and VAT rules and rates are applicable, the service calculates a VAT tax and the relevant tax amounts are returned in the response.

International tax and VAT calculation requests use several different API fields unlike U.S. tax calculation requests. See the requirements in the "Req/Opt for Intl. Tax/VAT" column in ["Request-Level Fields," page 24](#) and ["Offer-Level Fields," page 34](#).

Make sure you understand whether the product is exempt from tax or subject to special tax considerations. When it is the latter, provide the appropriate tax product code in the **product_code** 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.

When the tax calculation service succeeds, the reply includes **tax_tax_amount0...N** for each item and indicates whether the tax amount was calculated by the tax calculation service or provided by you.

Related Links

["Product Codes," page 13](#)

["Supported Countries and Regions," page 55](#)

Missing Origin Addresses

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

Invalid Address Combination Correction

The tax calculation service processes invalid address combinations of state, city, and postal code as long as the state and postal code combination is valid. For example, when the city, state, and postal code are Los Angeles, CA, and 94105, which is the ZIP code for San Francisco, the tax calculation service calculates tax for the city of San Francisco because the state and postal code are a valid combination.

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*.

Tax Reporting

Use the Business Center to create, view, and download reports, including the Tax Detail Report.

Committed Tax Request

A *committed tax request* is a tax service request that sets the status field in the Tax Detail Report to *committed*. The committed status indicates that the amount calculated by the tax service is included in the amount of a capture or credit.

Make a Committed Tax Request

Step 1 Request the tax service with the `tax_commit_indicator` field set to `Y`.

Refund Tax Request

A *refund tax request* is a tax service 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 reply messages, but they are saved in reports as negative amounts which enables the reporting software to accurately calculate the aggregate amounts.

Calculate the Tax Amount for a Refund

- Step 1** To calculate the tax amount for a refund at the same tax rate that was used for the original transaction, request the tax service with the **invoice_date** field set to the date of the original transaction.
-

Make a Refund Tax Request

- Step 1** Request the tax service with the **tax_refund_indicator** field set to `Y`.
-

Make a Committed Refund Tax Request

- Step 1** Request the tax service with the **tax_refund_indicator** field set to `Y` and the **tax_commit_indicator** field set to `Y`.
-

Void Tax Request

Voiding a tax request cancels a committed tax request or a committed refund tax request. The void transaction is included as a separate entry in the Tax Detail Report. The value of the link ID is the request ID of the committed tax request or refund tax request that was voided. You can use the value of the link ID to reconcile your orders.

Make a Void Tax Request

- Step 1** Request the void service with the **void_request_id** field set to the request ID for a committed tax request or committed refund tax request.
-



When a request includes more than one service, the reply message includes a request ID for the bundled request. When you request the void service using a request ID for a bundled request, all the transactions in the bundle are voided.

Committed Tax Scenarios

Scenario 1

- 1 Request the tax calculation service with the **tax_commit_indicator** field set to **Y**.
- 2 Request the authorization service for the full amount of the transaction including the tax amount.
- 3 Request the capture service for the authorized amount.
- 4 If the authorization or capture fails, request the void service to cancel the committed tax request.

Scenario 2

- 1 Request the tax calculation service without the commit indicator field.
- 2 Request the authorization service for the full amount of the transaction including the tax amount.
- 1 If the authorization is successful, request the tax calculation service with the **tax_commit_indicator** field set to **Y**.
- 2 Request the capture service for the authorized amount.
- 3 If the capture fails, request the void service to cancel the committed tax request.

Partial Capture Scenario

- 1 Void the original committed tax request.
- 1 Request the tax service for the new, final capture amount with the **tax_commit_indicator** field set to **Y**.
- 2 These actions ensure that you can reconcile your tax transactions in the Tax Detail Report.

Committed Refund Scenario

You can make a committed refund tax request to indicate that a tax amount was credited to a payment account. For example:

- 1 Request the tax service to calculate the tax amount for a refund.
- 2 Request the credit service to refund the full amount of the transaction including the tax amount.
- 3 Request the tax service with the commit indicator and refund indicator.
- 4 In the Tax Detail Report:
 - The status field has a value of committed.
 - The transaction type field has a value of refunded.
 - The tax amount is negative.

Reduce the number of tax calls by sending the commit and refund indicators in step 1. If the credit service fails in step 2, void the previously committed refund tax request.

Related Links

Business Center Reporting User Guide ([PDF](#) | [HTML](#))

Credit Card Services Using the SCMP API ([PDF](#) | [HTML](#))

Testing

You can use the test server at any time to send test tax calculation service transactions. See the documentation for the client or SDK that you are using for information about how to specify which server to use. During integration, you may also return production data in the test environment. To enable that functionality, contact customer support.

API Fields

Formatting Requirements

Unless otherwise noted, all fields are order and case insensitive and the fields accept special characters such as @, #, and %.

Values for request-level and offer-level fields must not contain carets (^) or colons (:). However, they can contain embedded spaces and any other printable characters. When you use more than one consecutive space, the extra spaces are removed.

On Atos, the **bill_** fields must not contain colons (:).

On Moneris, values for request-level and offer-level fields must not contain these special characters: ampersands (&), single quotes ('), double quotes ("), less than signs (<), and greater than signs (>).

Data Type Definitions

For more information about these data types, see the [World Wide Web Consortium \(W3C\) XML Schema Part 2: Datatypes Second Edition](#).

Table 3 Data Type Definitions

Data Type	Description
Date and time	Format is YYYY-MM-DDThhmmssZ, where: <ul style="list-style-type: none"> ■ T separates the date and the time ■ Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT) Example 2020-01-11T224757Z equals January 11, 2020, at 22:47:57 (10:47:57 p.m.)
Decimal	Number that includes a decimal point Example 23.45, -0.1, 4.0, 90809.0468
Integer	Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}
Nonnegative integer	Whole number greater than or equal to zero {0, 1, 2, 3, ...}
Positive integer	Whole number greater than zero {1, 2, 3, ...}
String	Sequence of letters, numbers, spaces, and special characters

Request-Level Fields

Table 4 Request-Level Fields

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
bill_address1	First line of the billing street address. In the U.S., this information can be helpful in determining the ZIP+4, which the service can use when determining tax.	Optional	—	String (60)
bill_address2	Second line of the billing street address.	Optional	—	String (60)
bill_city	Credit card billing city. Important It is your responsibility to determine whether a field is required for the transaction you are requesting.	Required ^{1, 3}	—	String (50)
bill_country	Credit card billing country. Use the two-character <i>ISO Standard Country Codes</i> . When ship_to_country is not provided, bill_country is used in its place. When bill_country is set to US or CA, bill_zip and bill_state are also required. Important It is your responsibility to determine whether a field is required for the transaction you are requesting.	Required ³	Required	String (2)
bill_state	Credit card billing state or province. Use the <i>State, Province, and Territory Codes for the United States and Canada</i> . Important It is your responsibility to determine whether a field is required for the transaction you are requesting.	Required ^{1, 3}	—	String (2)

1 For U.S. and Canada only.
2 The field has no length limit due to the varying number of states and provinces that can be included in the list.
3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
bill_zip	<p>Postal code for the billing address. The postal code must consist of 5 to 9 digits.</p> <p>When the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</p> <p>Example 12345-6789</p> <p>When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [numeric][alpha][numeric]</p> <p>Example A1B 2C3</p> <p>Important It is your responsibility to determine whether a field is required for the transaction you are requesting.</p>	Required ^{1, 3}	—	String (10)
buyer_registration	<p>Buyer's VAT registration number. See "International Taxes and Value-Added Tax (VAT)," page 11.</p>	—	Optional	String (25)
currency	<p>Currency used for the order. Use the standard ISO Standard Currency Codes. The default value is USD.</p>	Optional	Required	String (5)
ics_applications	<p>Services included in the request.</p> <p>At least one service must be specified in the request. Set this field to <code>ics_tax</code> to request the tax service.</p>	Required	Required	String (255)

1 For U.S. and Canada only.
2 The field has no length limit due to the varying number of states and provinces that can be included in the list.
3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
invoice_date	<p>Date of the tax calculation in Pacific time. You can provide a date in the past when you are calculating tax for a refund and want to know what the tax was on the date the order was placed. You can provide a date in the future when you are calculating the tax for a future date, such as an upcoming tax holiday.</p> <p>When you do not include this field in the request, the tax calculation date is set to the current date.</p> <p>Format: YYYYMMDD</p> <p>Adjust this value when you are in a different time zone and want the tax calculated with the rates that apply on a specific date.</p>	Optional	Optional	String (8)
merchant_id	Your merchant ID. Use the same merchant ID for evaluation, testing, and production.	Required	Required	String (30)
merchant_ref_number	Merchant-generated order reference or tracking number. See Getting Started with Cybersource Advanced for the SCMP API for more information.	Required	Required	String (50)
nexus	<p>Comma-separated list of states or provinces in which merchandise is taxable. Do not use both the nexus and no_nexus fields in your request. The default value for nexus is all states. Use the State, Province, and Territory Codes for the United States and Canada.</p> <p>When you indicate you do not have nexus in the destination state, jurisdiction level fields are left blank in the Tax Detail Report.</p>	Either this field or no_nexus is required when you do not have nexus in every state or province.	—	String (no limit) ⁽²⁾

1 For U.S. and Canada only.

2 The field has no length limit due to the varying number of states and provinces that can be included in the list.

3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
no_nexus	Comma-separated list of states or provinces in which merchandise is not taxable. Do not use both the nexus and no_nexus fields in your request. Use the State, Province, and Territory Codes for the United States and Canada . When you indicate you do not have nexus in the destination state, jurisdiction level fields are left blank in the Tax Detail Report.	Either this field or nexus is required when you do not have nexus in every state or province.	—	String (no limit) ⁽²⁾
offer0...N	Offers for the request. An offer is a line item in the order. At a minimum, offer0 must be present.	Required	Required	String (50)
order_acceptance_city	Order acceptance city. This field is not used unless the order_acceptance_state and order_acceptance_country fields are present. For more information on order acceptance, see "Terminology," page 9 .	Optional	—	String (50)
order_acceptance_country	Order acceptance country. This field is not used unless the order_acceptance_state and order_acceptance_city fields are present. Use the two-character ISO Standard Country Codes . For more information on order acceptance, see "Terminology," page 9 .	Optional	—	String (2)
order_acceptance_state	Order acceptance state. This field is not used unless the order_acceptance_city and order_acceptance_country fields are present. Use the State, Province, and Territory Codes for the United States and Canada . For more information on order acceptance, see "Terminology," page 9 .	Optional	—	String (2)

1 For U.S. and Canada only.

2 The field has no length limit due to the varying number of states and provinces that can be included in the list.

3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
order_acceptance_zip	Order acceptance postal code. This field is not used unless the order_acceptance_city , order_acceptance_state , and order_acceptance_country fields are present. Must be sent at the line or offer level to be surfaced in the Tax Detail Report. For more information on order acceptance, see "Terminology," page 9 .	Optional	—	String (10)
order_origin_city	Order origin city. This field is not used unless the order_origin_state and order_origin_country fields are present. For more information on order origin, see "Terminology," page 9 .	Optional	—	String (50)
order_origin_country	Order origin country. This field is not used unless the order_origin_state and order_origin_city fields are present. Use the two-character <i>ISO Standard Country Codes</i> . For more information on order origin, see "Terminology," page 9 .	Optional	—	String (2)
order_origin_state	Order origin state. This field is not used unless the order_origin_city and order_origin_country fields are present. Use the <i>State, Province, and Territory Codes for the United States and Canada</i> . For more information on order origin, see "Terminology," page 9 .	Optional	—	String (2)
order_origin_zip	Order origin postal code. This field is not used unless the order_origin_city , order_origin_state , and order_origin_country fields are present. Must be sent at the line or offer level to be surfaced in the Tax Detail Report. For more information on order origin, see "Terminology," page 9 .	Optional	—	String (10)

1 For U.S. and Canada only.

2 The field has no length limit due to the varying number of states and provinces that can be included in the list.

3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
seller_registration	Your VAT seller registration number. See "International Taxes and Value-Added Tax (VAT)," page 11 . There is also an offer-level field named seller_registration . See "Offer-Level Fields," page 34 .	—	Required for VAT	String (25)
ship_from_city	City from which the order is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing. This field is used only when ship_from_state and ship_from_country are present.	Optional	—	String (50)
ship_from_country	Country from which the order is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing. This field is used only when ship_from_city and ship_from_state are present. Use the two-character ISO Standard Country Codes .	Optional	Optional	String (2)
ship_from_state	State from which the order is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing. This field is used only when ship_from_city and ship_from_country are present. Use the State, Province, and Territory Codes for the United States and Canada .	Optional	—	String (2)

1 For U.S. and Canada only.

2 The field has no length limit due to the varying number of states and provinces that can be included in the list.

3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
ship_from_zip	<p>Postal code from which the order is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing. The postal code must consist of 5 to 9 digits.</p> <p>When the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</p> <p>Example 12345-6789</p> <p>When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][numeric][alpha][numeric]</p> <p>Example A1B 2C3</p>	Optional	—	String (10)
ship_to_address1	<p>First line of the shipping address.</p> <p>When ship_to_address1 is not included in the request and the service defaults to bill_to_address1, the value for ship_to_address1 is left blank in the Tax Detail Report.</p> <p>Required when any shipping information is included. Also see "Multiple Shipping Destinations in a Single Order," page 14.</p>	Optional	—	String (60)
ship_to_address2	<p>Second line of the shipping address.</p> <p>Also see "Multiple Shipping Destinations in a Single Order," page 14.</p>	Optional	—	String (60)
ship_to_address3	<p>Third line of the shipping address.</p> <p>Also see "Multiple Shipping Destinations in a Single Order," page 14.</p>	Optional	—	String (60)

1 For U.S. and Canada only.

2 The field has no length limit due to the varying number of states and provinces that can be included in the list.

3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
ship_to_city	<p>City of the shipping address.</p> <p>When ship_to_city is not included in the request and the service defaults to bill_city, the value for ship_to_city is left blank in the Tax Detail Report.</p> <p>This field is used only when the ship_to_state and ship_to_country fields are present. Also see "Multiple Shipping Destinations in a Single Order," page 14.</p>	Optional	—	String (50)
ship_to_country	<p>Country of the shipping address. Use the two-character ISO Standard Country Codes.</p> <p>When ship_to_country is not included in the request and the service defaults to bill_to_country, the value for ship_to_country is left blank in the Tax Detail Report.</p> <p>This field is used only when the ship_to_city and ship_to_state fields are present. Also see "Multiple Shipping Destinations in a Single Order," page 14.</p>	Optional	Optional	String (2)
ship_to_state	<p>State or province of the shipping address. Use the State, Province, and Territory Codes for the United States and Canada.</p> <p>When ship_to_state is not included in the request and the service defaults to bill_state, the value for ship_to_state is left blank in the Tax Detail Report.</p> <p>The default value for ship_to_state is bill_state. This field is used only when the ship_to_city and ship_to_country fields are present. Also see "Multiple Shipping Destinations in a Single Order," page 14.</p>	Optional	—	String (2)

1 For U.S. and Canada only.

2 The field has no length limit due to the varying number of states and provinces that can be included in the list.

3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
ship_to_zip	<p>Postal code for the shipping address. The postal code must consist of 5 to 9 digits.</p> <p>When the shipping country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789</p> <p>When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space] [numeric][alpha][numeric] Example A1B 2C3</p> <p>When ship_to_zip is not included in the request and the service defaults to bill_zip, the value for ship_to_zip is left blank in the Tax Detail Report.</p> <p>When the postal code for the shipping address is not included in the request message, the postal code for the billing address is used. When the postal code for the billing address is not included in the request message, the postal code for the shipping address is required.</p> <p>Also see "Multiple Shipping Destinations in a Single Order," page 14.</p>	Optional	—	String (10)
show_tax_per_offer	<p>Whether or not to display tax amounts for each offer. This field can contain one of the following values:</p> <ul style="list-style-type: none"> ■ yes: Display tax amounts for each offer. ■ no (default): Do not display tax amounts for each offer. 	Optional	—	String (3)

1 For U.S. and Canada only.
2 The field has no length limit due to the varying number of states and provinces that can be included in the list.
3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canadian Tax	Req/Opt for Intl. Tax/VAT	Data Type & Length
tax_commit_indicator	Indicates whether this is a committed tax transaction. For a committed tax transaction, the status in the Tax Detail Report is “Committed.” For an uncommitted tax transaction, the status in the Tax Detail Report is “Uncommitted.” Possible values: <ul style="list-style-type: none"> ■ Y: This is a committed tax transaction. ■ N (default): This is not a committed tax transaction. 	Optional	—	String (1)
tax_date_override_reason	When a past or future date is specified in invoice_date , provide the reason for that for audit purposes. Typical reasons include: <ul style="list-style-type: none"> ■ Return ■ Layaway ■ Imported 	Optional		String (255)
tax_refund_indicator	Indicates whether this is a refund tax transaction. For a refund tax transaction, amounts in the Tax Detail Report are negative. Possible values: <ul style="list-style-type: none"> ■ Y: This is a refund tax transaction. ■ N (default): This is not a refund tax transaction. 	Optional	Optional	String (1)
tax_reporting_date	Reporting date for the transaction. This value is included in the Tax Detail Report. When you do not include this field in the request, the reporting date is set to the current date. Format: YYYYMMDD.	Optional		String (8)
timeout	Number of seconds the system waits before returning a timeout error. The default is 110 seconds.	Optional	Optional	Positive integer (3)

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2 The field has no length limit due to the varying number of states and provinces that can be included in the list.
3 This field is optional if your account is configured for relaxed requirements for address data. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Offer-Level Fields

Table 5 Offer-Level Fields

Field	Description	Req/Opt for U.S. & Canada	Req/Opt for VAT	Data Type & Length
amount	<p>Per-item price of the product. This value cannot be negative.</p> <p>You can include a decimal point (.) in this field, but you cannot include any other special characters. The amount is truncated at the request level to the correct number of decimal places.</p>	Required	Required	Decimal (15)
buyer_registration	Buyer's VAT registration number. See "International Taxes and Value-Added Tax (VAT)," page 11.	—	Optional	String (25)
merchant_product_sku	<p>Product's identifier code.</p> <p>For ics_auth and ics_bill, required when product_code is not <code>default</code> or one of the values related to shipping and handling.</p>	Optional	—	String (30)
order_acceptance_city	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_acceptance_state and order_acceptance_country fields are present.</p> <p>For more information on order acceptance, see "Terminology," page 9.</p>	Optional	—	String (50)
order_acceptance_country	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_acceptance_state and order_acceptance_city fields are present.</p> <p>Use the two-character ISO Standard Country Codes. For more information on order acceptance, see "Terminology," page 9.</p>	Optional	—	String (2)
order_acceptance_state	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_acceptance_city and order_acceptance_country fields are present.</p> <p>Use the State, Province, and Territory Codes for the United States and Canada. For more information on order acceptance, see "Terminology," page 9.</p>	Optional	—	String (2)

Table 5 Offer-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canada	Req/Opt for VAT	Data Type & Length
order_acceptance_zip	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_acceptance_state and order_acceptance_city fields are present.</p> <p>Must be sent at the line or offer level to be surfaced in the Tax Detail Report.</p> <p>For more information on order acceptance, see "Terminology," page 9.</p>	Optional	—	String (10)
order_origin_city	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_origin_state and order_origin_country fields are present. For more information on order origin, see "Terminology," page 9.</p>	Optional	—	String (50)
order_origin_country	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_origin_state and order_origin_city fields are present. Use the two-character ISO Standard Country Codes. For more information on order origin, see "Terminology," page 9.</p>	Optional	—	String (2)
order_origin_state	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_origin_city and order_origin_country fields are present. Use the State, Province, and Territory Codes for the United States and Canada. For more information on order origin, see "Terminology," page 9.</p>	Optional	—	String (2)
order_origin_zip	<p>This offer-level field overrides the corresponding request-level field. This field is not used unless the order_origin_city, order_origin_state, and order_origin_country fields are present.</p> <p>Must be sent at the line or offer level to be surfaced in the Tax Detail Report.</p> <p>For more information on order origin, see "Terminology," page 9.</p>	Optional	—	String (10)

Table 5 Offer-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canada	Req/Opt for VAT	Data Type & Length
product_code	<p>Type of product. This value is used to determine the product category: electronic, handling, physical, service, or shipping. The default value is <code>default</code>.</p> <p>To use the tax calculation service, use values listed in the <i>Tax Product Code Guide</i>. For information about this document, contact customer support. See "Product Codes," page 13, for more information.</p> <p>For <code>ics_auth</code>, when you set this to a value other than <code>default</code> or any of the other values related to shipping and handling, the <code>quantity</code>, <code>product_name</code>, and <code>merchant_product_sku</code> fields are required. See the information about offers and grand totals in Getting Started with Cybersource Advanced for the SCMP API.</p>	Optional	Optional	String (20)
product_name	<p>Name of the product.</p> <p>For <code>ics_auth</code> and <code>ics_bill</code>, required when <code>product_code</code> is not <code>default</code> or one of the values related to shipping and handling.</p>	Optional	Optional	String (30)
quantity	<p>Quantity of the product being purchased.</p> <p>For <code>ics_auth</code> and <code>ics_bill</code>, required when <code>product_code</code> is not <code>default</code> or one of the values related to shipping and handling.</p>	Optional	Optional	Non-negative integer (10)
seller_registration	Your VAT seller registration number. See " International Taxes and Value-Added Tax (VAT) ," page 11.	—	Required for VAT	String (25)
ship_from_city	City from which the product is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing.	Optional	—	String (50)
ship_from_country	Country from which the product is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing. Use the two-character ISO Standard Country Codes .	Optional	Optional	String (2)

Table 5 Offer-Level Fields (Continued)

Field	Description	Req/Opt for U.S. & Canada	Req/Opt for VAT	Data Type & Length
ship_from_state	State from which the product is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing. Use the State, Province, and Territory Codes for the United States and Canada .	Optional	—	String (2)
ship_from_zip	Postal code from which the product is shipped, which is used to determine tax rules and/or rates applied to the transaction based on sourcing. The postal code must consist of 5 to 9 digits. When the shipping country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric] Example A1B 2C4	Optional	—	String (10)
tax_amount	Total tax to apply to the product. This amount cannot be negative. When you include this field, ics_tax does not calculate tax for the offer; instead, it returns the value of tax_amount in the reply field tax_tax_amountN .	Optional	Optional	Decimal (15)

Reply Fields

All the reply fields in the following table are returned for U.S. and Canadian orders. The third column in the table indicates whether the field is returned for VAT orders.

Table 6 Reply Fields

Reply Field	Description	Returned for VAT orders?	Data Type & Length
client_lib_version	Information about the client library used to request the transaction.	Yes	String (50)
currency	Currency used for the order. Formatted using the standard ISO Standard Currency Codes .	Yes	String (5)

Table 6 Reply Fields (Continued)

Reply Field	Description	Returned for VAT orders?	Data Type & Length
ics_rcode	One-digit code that indicates whether the entire request was successful. The field will contain one of the following values: -1: An error occurred 0: The request was declined 1: The request was successful	Yes	Integer (1)
ics_rflag	One-word description of the result of the entire request.	Yes	String (50)
ics_rmsg	Message that explains the reply flag ics_rflag . Do not display this message to your customer, and do not use this field to write an error handler.	Yes	String (255)
merchant_ref_number	Order reference or tracking number that you provided in the request. When you include multi-byte characters in this field in the request, the returned value might contain corrupted characters.	Yes	String (50)
request_id	Identifier for the request generated by the client.	Yes	String (26)
tax_commit_indicator	Echo commit action back to you. Possible values: ■ Y ■ N	Yes	String (1)
tax_city_tax0...N	City tax for the item. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	Decimal (15)
tax_country_tax0...N	Country tax amount for the item. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	Yes	String (15)
tax_county_tax0...N	County tax for the item. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	Decimal (15)
tax_exempt_amount0...N	Exempt amount for the item. Returned only When the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)
tax_offer#_jurisdiction#_code	Jurisdiction code assigned by the tax provider. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)
tax_offer#_jurisdiction#_country	Tax jurisdiction country for the item. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)
tax_offer#_jurisdiction#_name	Free-text description of the jurisdiction for the item. For example, San Mateo County. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)
tax_offer#_jurisdiction#_rate	Jurisdiction tax rate for the item. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)

Table 6 Reply Fields (Continued)

Reply Field	Description	Returned for VAT orders?	Data Type & Length
tax_offer#_jurisdiction#_region	Free-text description of the jurisdiction region for the item. For example, CA (California State) or GB (Great Britain). Returned only when the show_tax_per_offer field is set to <i>yes</i> .	Yes	String (15)
tax_offer#_jurisdiction#_tax_amount	Jurisdiction tax amount for the item. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)
tax_offer#_jurisdiction#_tax_name	Name of the jurisdiction tax for the item. For example, CA State Tax. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)
tax_offer#_jurisdiction#_taxable	Jurisdiction taxable amount for the item, not including product level exemptions. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	Yes	String (15)
tax_offer#_jurisdiction#_type	Type of jurisdiction for the item. For example, city, county, state, country, or special. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	String (15)
tax_rcode	One-digit code that indicates whether the ics_tax request was successful. The field will contain one of the following values: -1: An error occurred 0: The request was declined 1: The request was successful	Yes	Integer (1)
tax_refund_indicator	Echo commit action back to you. Possible values: ■ Y ■ N	Yes	String (1)
tax_rflag	One-word description of the result of the ics_tax request.	Yes	String (50)
tax_rmsg	Message that explains the reply flag tax_rflag . Do not display this message to your customer, and do not use this field to write an error handler.	Yes	String (255)
tax_special_tax0...N	Special tax amount for the item when the tax_offer#_jurisdiction#_type field is set to <i>special</i> .	No	String (15)
tax_state_tax0...N	State tax for the item. Returned only when the show_tax_per_offer field is set to <i>yes</i> .	No	Decimal (15)
tax_tax_amount0...N	Total tax for the item.	Yes	Decimal (15)
tax_taxable_amount0...N	Taxable amount for the item.	No	String (15)
tax_total_city_tax	Total amount of city tax. This value is the sum of the values for all the tax_city_tax0...N fields.	No	Decimal (15)

Table 6 Reply Fields (Continued)

Reply Field	Description	Returned for VAT orders?	Data Type & Length
tax_total_country_tax	Total amount of country tax or Canada GST. This value is the sum of the values for all the tax_country_tax0...N fields.	No	String (15)
tax_total_county_tax	Total amount of county tax. This value is the sum of the values for all the tax_county_tax0...N fields.	No	Decimal (15)
tax_total_exempt_amount	Total amount of exempt amounts. This value is the sum of the values for all the tax_exempt_amount0...N fields.	No	String (15)
tax_total_grand	Sum of the offer amounts and tax amounts.	Yes	Decimal (17)
tax_total_special_tax	Total amount of special tax. This value is the sum of the values for all tax_special_tax0...N fields.	No	String (15)
tax_total_state_tax	Total amount of state tax or Canadian PST, HST, or QST. This value is the sum of the values for all the tax_state_tax0...N fields.	No	Decimal (15)
tax_total_tax	Total tax for all offers.	Yes	Decimal (15)
tax_total_taxable_amount	Total amount of all taxable amounts. This value is the sum of the values for all the tax_taxable_amount0...N fields.	No	String (15)

Examples

Basic Tax and Refund Calculation Examples

Example 1 Tax Calculation 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
```

Example 2 Tax Calculation Reply

```
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
```

Example 2 Tax Calculation Reply (Continued)

```

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

```

Example 2 Tax Calculation Reply (Continued)

```
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
```

Example 3 Refund Calculation 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

```

Example 4 Refund Calculation Reply

```

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

```

Example 4 Refund Calculation Reply (Continued)

```

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

```

Example 4 Refund Calculation Reply (Continued)

```
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
```

Tax Report Examples

Example 5 Committed Tax Call 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

```

Example 6 Committed Tax Call Reply

```

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

```

Example 6 Committed Tax Call Reply (Continued)

```

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=0.010000
tax_offer0_jurisdiction1_type=County
tax_tax_commit_indicator=Y
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

```


Example 6 Committed Tax Call Reply (Continued)

```

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

```

Example 7 Refund Tax Call Request

```

auth_trans_ref_no=AB12\uFFFFDBC45
bill_address1=123 Main St.
bill_city=Small Town
bill_country=us
bill_state=ca
bill_zip=98765
card_type=001

```

Example 7 Refund Tax Call Request (Continued)

```

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
my_tc_type=cas/prod
offer0=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=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
offer2=offer0=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
tax_refund_indicator=Y

```

Example 8 Refund Tax Call Reply

```

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

```

Example 8 Refund Tax Call Reply (Continued)

```

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
tax_tax_commit_indicator=Y
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

```

Example 8 Refund Tax Call Reply (Continued)

```
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
```

Tax Void Example

Example 9 Tax Void Request

```
merchant_id=my_store_123  
merchant_ref_number=ABC123  
ics_applications=ics_void  
void_request_id=5805137656106112903096
```

Example 10 Tax Void Reply

```
merchant_ref_number=ABC123  
request_id=5805137922226113003096  
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
```

Reply Flags

The following table lists the tax calculation service reply flags returned by the SCMP API.



Because reply fields, reply codes, and reply flags can be added at any time:

- You need to parse the reply data according to the names of the fields instead of the field order in the reply. For more information about parsing reply fields, see the documentation for your client.
- Your error handler should be able to process new reply codes and reply flags without problems.

Your error handler should use the **ics_rcode** field to determine the result when it receives a reply flag that it does not recognize.

Table 7 **Reply Flags**

Reply Flags	Brief Description
DINVALIDADDRESS	Customer entered an invalid city, state, country, or postal code.
DINVALIDDATA	Data provided is not consistent with the request.
DMISSINGFIELD	The request is missing a required field.
ESYSTEM	System error. See the documentation for your client or SDK for information about how to handle retries in the case of system errors.
ETIMEOUT	The request timed out.
SOK	Transaction was successful.

Related Link

[Getting Started with Cybersource Advanced for the SCMP API](#)

Supported Countries and Regions

Table 8 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

Table 8 Supported Countries and Regions (Continued)

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
China	Palau
Note Regional tax is not supported in China. Tax determination defaults to the federal tax rate.	
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

Table 8 Supported Countries and Regions (Continued)

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

Table 8 Supported Countries and Regions (Continued)

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 U.S. 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 reply flag of `DINVALIDADDRESS`.

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

Table 9 City Abbreviations Expansion

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