

Level II and Level III Processing Using the SCMP API

Supplement to *Credit Card Services
Using the SCMP API*

November 2019

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the power of payment

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Contents

Recent Revisions to This Document 7

About This Guide 8

Audience and Purpose 8

Conventions 8

Related Documentation 9

Customer Support 9

Chapter 1	Introduction to Level II and Level III Processing	10
	Prerequisites for Level II Processing	10
	Prerequisites for Level III Processing	11
	Supported Processors and Card Types	11
	About Level II Data	12
	About Level III Data	13
	CyberSource Level II and Level III Data Processing	13
	Relaxed Requirements for Address Data and Expiration Date	14
	Using Decimals and Strings	14
	Requesting Captures and Credits with Level II Data	14
	Requesting Captures and Credits with Level III Data	16

Chapter 2	American Express Direct: Level II and Level III	18
	Transaction Requirements	18
	Interchange Rates	18
	Character Set	18
	Level II Transactions	19
	Level III Transactions	19
	Order-Level Fields	20
	Offer-Level Fields	24
	Offer-Level Tax Fields	29

Chapter 3 Chase Paymentech Solutions: Level II and Level III 30

Transaction Requirements	30
Interchange Rates	30
Processor Specification	30
Order-Level Fields	31
Offer-Level Fields	35

Chapter 4 CyberSource through VisaNet: Level II and Level III 40

Transaction Requirements	40
Interchange Rates	40
Supported Acquirers	40
Order-Level Fields	42
Offer-Level Fields	50

Chapter 5 Elavon Americas: Level II and Level III 54

Transaction Requirements	54
Interchange Rates	54
Order-Level Fields	54
Offer-Level Fields	59

Chapter 6 FDC Compass: Level II and Level III 64

Transaction Requirements	64
Interchange Rates	64
Processor Specification	64
Order-Level Fields	65
Offer-Level Fields	69

Chapter 7 FDC Nashville Global: Level II and Level III 73

Transaction Requirements	73
Interchange Rates	73
Processor Specification	73
Order-Level Fields	74
Offer-Level Fields	81

Chapter 8	FDMS Nashville: Level II	86
	Transaction Requirements	86
	Interchange Rates	86
	Order-Level Fields	87
	Offer-Level Fields	88

Chapter 9	FDMS South: Level II	89
	Transaction Requirements	89
	Interchange Rates	89
	Order-Level Fields	90
	Offer-Level Fields	92

Chapter 10	GPN: Level II and Level III	93
	Transaction Requirements	93
	Interchange Rates	93
	Processor Specification	93
	Order-Level Fields	94
	Offer-Level Fields	97

Chapter 11	OmniPay Direct: Level II and Level III	101
	Transaction Requirements	101
	Interchange Rates	101
	Supported Acquirers	101
	Processor Specification	101
	Order-Level Fields	102
	Offer-Level Fields	107
	Examples	112

Chapter 12	RBS WorldPay Atlanta: Level II and Level III	115
	Transaction Requirements	115
	Interchange Rates	115
	Processor Specification	115
	Order-Level Fields	116
	Offer-Level Fields	120

Chapter 13 **TSYS Acquiring Solutions: Level II and Level III** 124

Transaction Requirements 124

Interchange Rates 124

Processor Specification 124

Order-Level Fields 125

Offer-Level Fields 130

Chapter 14 **Worldpay VAP: Level II and Level III** 134

Transaction Requirements 134

Interchange Rates 134

Order-Level Fields 135

Offer-Level Fields 138

Appendix A **Codes for Units of Measurement** 143

Appendix B **Exemption Status Values** 150

Appendix C **Product Codes** 152

Appendix D **Reference Data Codes** 153

Recent Revisions to This Document

Release	Changes
November 2019	Worldpay VAP: updated note about name change from <i>Little</i> .
March 2019	Added notes about Level III transactions. See "Prerequisites for Level III Processing," page 11 , and "About Level III Data," page 13 .
December 2018	This revision contains only editorial changes and no technical updates.
September 2018	CyberSource through VisaNet: added the following acquirers. See Chapter 4, "CyberSource through VisaNet: Level II and Level III," on page 40 . <ul style="list-style-type: none"> ■ Banco Safra ■ BC Card Co., Ltd. ■ Vietnam Technological and Commercial Joint-stock Bank
June 2018	Added new Processor: Elavon Americas. See "Elavon Americas: Level II and Level III," page 54 . Litle: changed processor name to <i>Worldpay VAP</i> . See "Worldpay VAP: Level II and Level III," page 134 .
April 2018	GPN: updated the descriptions for the following fields, which are listed in "Order-Level Fields," page 94 , and "Offer-Level Fields," page 97 . <ul style="list-style-type: none"> ■ commodity_code ■ discount_amount ■ order_discount_amount ■ summary_commodity_code

About This Guide

Audience and Purpose

This guide is written for application developers who want to use the CyberSource SCMP API to integrate credit card processing with Level II or Level III data into their order management system.

Implementing the CyberSource credit card services requires software development skills. You must write code that uses the API request and reply fields to integrate the credit card services with Level II or Level III data into your existing order management system.

Conventions

The following special statements are used in this document:



Note

A *Note* contains helpful suggestions or references to material not contained in this document.



Important

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

The following text conventions are used in this document:

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

- *Getting Started with CyberSource Advanced for the SCMP API* ([PDF](#) | [HTML](#)) describes how to get started using the SCMP API.
- *Credit Card Services Using the SCMP API* ([PDF](#) | [HTML](#)) describes how to integrate CyberSource payment processing services into your business.

Refer to the Support Center for complete CyberSource technical documentation:

http://www.cybersource.com/support_center/support_documentation

Customer Support

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

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

Introduction to Level II and Level III Processing

This addendum to *Credit Card Services Using the SCMP API* describes:

- Level II processing for American Express, Visa, and Mastercard
- Level III processing for Visa and Mastercard

After this introductory chapter, there is a chapter for each processor that supports Level II or Level III.



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Prerequisites for Level II Processing

To activate Level II processing for American Express, contact American Express and CyberSource Customer Support.

On OmniPay Direct, when you are ready to go live with Level II processing, contact CyberSource Customer Support to have your account configured to process Level II data. If your account is not enabled, and you try to send Level II transactions on OmniPay Direct, you will receive an error for invalid data.

Prerequisites for Level III Processing

Check with your processor to determine whether you need to add Level III processing to your contract or account setup.

When you are ready to go live with Level III processing, contact CyberSource Customer Support to have your account configured to process Level III data. If your account is not enabled, and you try to send Level III transactions, you will receive an error for invalid data.



Note

Unless otherwise specified, Level III transactions must include Level II data.

Supported Processors and Card Types

Table 1 Supported Processors and Card Types

Processor	Level II Card Types Supported	Level III Card Types Supported
American Express Direct	American Express	American Express
Chase Paymentech Solutions	Visa Mastercard American Express	Visa Mastercard
CyberSource through VisaNet	Visa Mastercard American Express	Visa Mastercard
Elavon Americas	Visa Mastercard	Visa Mastercard
FDC Compass	Visa Mastercard American Express	Visa Mastercard
FDC Nashville Global	Visa Mastercard American Express	Visa Mastercard
FDMS Nashville	Visa Mastercard	None
FDMS South	Visa Mastercard	None
GPN	Visa Mastercard	Visa Mastercard

Table 1 Supported Processors and Card Types (Continued)

Processor	Level II Card Types Supported	Level III Card Types Supported
Worldpay VAP Worldpay VAP was previously called <i>Little</i> . Little was purchased by Vantiv, which was then purchased by Worldpay VAP. If you have any questions, contact your account manager at Worldpay VAP.	Visa Mastercard American Express	Visa Mastercard
OmniPay Direct	Visa Mastercard	Visa Mastercard
RBS WorldPay Atlanta	Visa Mastercard	Visa Mastercard
TSYS Acquiring Solutions	Visa Mastercard	Visa Mastercard

About Level II Data

Level II cards, which are also called *Type II cards*, provide customers with additional information on their credit card statements about their purchases. Level II cards enable customers to easily track the amount of sales tax they pay and to reconcile transactions with a unique customer code. There are two categories of Level II cards:

- Business/corporate cards are given by businesses to employees for business-related expenses such as travel and entertainment or for corporate supplies and services.
- Purchase/procurement cards are used by businesses for expenses such as supplies and services. These cards are often used as replacements for purchase orders.

Each processor supports a different set of Level II fields. If your business is not in the United States, you must use additional fields.

About Level III Data

You can provide Level III data for purchase/procurement cards, which are used by businesses for expenses such as supplies and services. These cards are often used as replacements for purchase orders. The Level III data is forwarded to the company that made the purchase, and it enables the company to manage its purchasing activities.



Note

Unless otherwise specified, Level III transactions must include Level II data.

CyberSource Level II and Level III Data Processing

CyberSource does not store the Level II and Level III data. Instead, it functions as a pass-through service for the data. If you request multiple partial captures or credits for an order, you must include the Level II and Level III data in each request.

CyberSource enforces only a minimal level of field validation to avoid interfering with the business policies between you and the companies that purchase your goods and services.



Note

CyberSource temporarily disables your account's Level III processing capability and contacts you if your Level III transactions produce batching errors when the information is sent to your processor. When this happens, your request is not rejected, but the reply message from CyberSource includes a field indicating that the Level III information was ignored and was not sent to the processor.

- For captures, the reply field is **bill_purchasing_level3_enabled**.
- For credits, the reply field is **credit_purchasing_level3_enabled**.

The possible values for the reply fields are:

- Y: the Level III data was included in the request to the processor.
- N: the Level III data was not included in the request to the processor.

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.

Using Decimals and Strings

CyberSource uses decimal points in all amount and tax rate fields; CyberSource does not use implied decimal points. For example, if the amount of the product being purchased is 29.95, set that field to 29 . 95.

For tax rates used with Level III transactions, you need to include a decimal point in the value. For example, if a tax rate is 1%, you should set that field to 0 . 01.

For many of the fields described in this document, Visa and Mastercard permit different lengths for alphanumeric (string) input. CyberSource accepts any length you provide. If the value you provide is longer than the payment card company permits, CyberSource truncates the value, keeping the left-most portion of the value. If the value you provide is shorter than the payment card company requires, CyberSource pads the field before sending it to the processor.

Requesting Captures and Credits with Level II Data

To include Level II data in a capture or credit request:

Step 1 Authorize a credit card payment.

Step 2 Capture the authorization.

Include the following information in the capture request:

- Level II data: see the chapter in this document for the processor you are using. Also see ["Using Decimals and Strings," page 14](#).

**Important**

If you omit required Level II fields from a request, the transaction does not result in an error. Instead, it is processed as a regular non-Level II transaction. However, your processor could charge you penalties or increase your fees. Contact your processor to ensure you understand your processor's specific requirements for Level II transactions.

- Basic fields required for every capture request.

For more information, see [Credit Card Services Using the SCMP API](#).

Step 3 If necessary, credit the payment.

Include the following information in the credit request:

- Level II data: see the chapter in this document for the processor you are using. Also see ["Using Decimals and Strings," page 14](#).

**Important**

If you omit required Level II fields from a request, the transaction does not result in an error. Instead, it is processed as a regular non-Level II transaction. However, your processor could charge you penalties or increase your fees. Contact your processor to ensure you understand your processor's specific requirements for Level II transactions.

**Note**

OmniPay Direct does not require Level II data for credits. When you include Level II data in a credit request for OmniPay Direct, CyberSource does not pass the Level II data to OmniPay Direct.

**Note**

RBS WorldPay Atlanta does not require Level II data for credits.

- Basic fields required for every credit request.

For more information, see [Credit Card Services Using the SCMP API](#).

Requesting Captures and Credits with Level III Data

To include Level III data in a capture or credit request:

Step 1 Authorize a credit card payment.

CyberSource recommends that for Level III transactions you include the total order amount in the authorization request, even though it is not required. Doing so ensures that CyberSource uses your total order amount and that the capture or credit request total amount matches the original authorization total amount. The field to use in the authorization request is **grand_total_amount**.

Step 2 Capture the authorization.

Include the following information in the capture request:

- Level II and Level III data: see the chapter in this document for the processor you are using. Also see "[Using Decimals and Strings](#)," page 14.
- Purchasing level field: the field name is **purchasing_level**. Set this field to 3 to indicate that the request includes Level III data.
- Basic fields required for every capture request.

For more information, see [Credit Card Services Using the SCMP API](#).

Step 3 For all processors except CyberSource through VisaNet, check the capture reply message.

The reply message includes a field that indicates whether CyberSource sent the Level III information to the processor. The field name is **bill_purchasing_level3_enabled**. The possible values are:

- Y: the account is enabled for Level III transactions. The Level III data was included in the request to the processor.
- N: the account is not enabled for Level III transactions. The Level III data was not included in the request to the processor.

If your account is not enabled for Level III data or if you did not include the purchasing level field in your request, CyberSource does not include the Level III data in the request sent to the processor.

Step 4 If necessary, credit the payment.

Include the following information in the credit request:

- Level II and Level III data: see the chapter in this document for the processor you are using. Also see ["Using Decimals and Strings," page 14.](#)

**Note**

OmniPay Direct does not require Level III data for credits. When you include Level III data in a credit request for OmniPay Direct, CyberSource does not pass the Level II data to OmniPay Direct.

**Note**

RBS WorldPay Atlanta does not require Level II data for credits.

- Purchasing level field: the field name is **purchasing_level**. Set this field to 3 to indicate that the request includes Level III data.
- Basic fields required for every credit request.

For more information, see [Credit Card Services Using the SCMP API.](#)

Step 5 For all processors except CyberSource through VisaNet, check the credit reply message.

The reply message includes a field that indicates whether CyberSource sent the Level III information to the processor. The field name is **credit_purchasing_level3_enabled**. The possible values are:

- **Y**: the account is enabled for Level III transactions. The Level III data was included in the request to the processor.
- **N**: the account is not enabled for Level III transactions. The Level III data was not included in the request to the processor.

If your account is not enabled for Level III data or if you did not include the purchasing level field in your request, CyberSource does not include the Level III data in the request sent to the processor.

American Express Direct: Level II and Level III

Transaction Requirements



Important

When you send a capture or credit request with Level II or Level III data, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Character Set

For Level III transactions, the following characters are supported:

- Uppercase A through Z
- Digits
- Basic punctuation characters such as (! ? # & ' () , - . / : ; ? =) unless specifically noted for individual fields



Important

These characters are not allowed: * > ~

If one of these characters is included in a Level III request on American Express Direct, CyberSource declines the request.

Level II Transactions

On American Express Direct, Level II data is supported only for merchants in the U.S. who are doing business in U.S. dollars.

Level III Transactions



On American Express Direct, Level III data is supported only for merchants in the U.S. who are doing business in U.S. dollars or merchants in Canada who are doing business in Canadian dollars.



For a Level III transaction on American Express Direct, the request must include at least one offer.



On American Express Direct, Level III data cannot be combined with airline data or installment data.

Instead of using the ISO8583 standard as the Visa and Mastercard payment card companies chose for Level III processing, the American Express payment card company decided to use the Electronic Data Interchange (EDI) standard, which is used by many businesses for direct business-to-business communication. The EDI standard electronically replaces various forms, invoices, and related paper documents that can be passed within and between companies for their normal business practices.

For transaction processing with Level III data, American Express supports a format called the EDI 810 Invoice Transaction Set. This format supports billing information for goods and services provided. Furthermore, American Express defined multiple types of Level III transactions and identified additional processing requirements for each type. CyberSource supports one of these types, the “generic” transaction type, which supports the four transaction advice addendum (TAA) fields.

Order-Level Fields

Table 2 Order-Level Fields for American Express Direct

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
amexdata_taa1 amexdata_taa2 amexdata_taa3 amexdata_taa4	<p>Four transaction advice addendum fields. These fields are used to display descriptive information about a transaction on your customer's American Express card statement. If you are sending any TAA fields, start with amexdata_taa1, then ...taa2, and so on. Skipping a TAA field causes subsequent TAA fields to be ignored.</p> <p>Contact CyberSource Customer Support if you plan to use these fields so that your account can be configured appropriately.</p>	<p>Level II (O but recommended)</p> <p>Level III (O)</p>	String (40)
company_address1	First line in the street address of the company purchasing the product.	Level III (O)	String (40)
company_address2	Additional address information for the company purchasing the product.	Level III (O)	String (40)
	<p>Example</p> <p>Attention: Accounts Payable</p>		
company_city	City in the address of the company purchasing the product.	Level III (O)	String (30)
company_country	Country in the address of the company purchasing the product. Use the two-character <i>ISO Standard Country Codes</i> .	Level III (O)	String (2)
company_name	Name of the company purchasing the product.	Level III (O)	String (40)
company_state	State or province in the address of the company purchasing the product. Use the <i>State, Province, and Territory Codes for the United States and Canada</i> .	Level III (O)	String (2)
company_zip	<p>Postal code in the address of the company purchasing the product. The postal code must consist of 5 to 9 digits.</p> <p>When the company 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 company country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric]</p> <p>Example A1B 2C3</p>	Level III (O)	String (10)

Table 2 Order-Level Fields for American Express Direct (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
customer_firstname	<p>First name of the person requesting the product. This person may or may not be the cardholder.</p> <p>This field and customer_lastname together should not exceed 40 characters.</p> <p>This field is optional if your CyberSource account is configured for relaxed requirements for address data. See Relaxed Requirements for Address Data and Expiration Date page.</p> <p>Important It is your responsibility to determine whether a field is required for the transaction you are requesting.</p>	<p>Level II (O)</p> <p>Level III (O)</p>	String (see description)
customer_lastname	<p>Last name of the person requesting the product. This person may or may not be the cardholder.</p> <p>This field and customer_firstname together should not exceed 40 characters.</p> <p>This field is optional if your CyberSource account is configured for relaxed requirements for address data. See Relaxed Requirements for Address Data and Expiration Date page.</p> <p>Important It is your responsibility to determine whether a field is required for the transaction you are requesting.</p>	<p>Level II (O)</p> <p>Level III (O)</p>	String (see description)
purchasing_level	<p>Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3.</p>	Level III (R)	String (1)
reference_data_code	<p>Code that identifies the value of the reference_data_number field. For the possible values, see Appendix D, "Reference Data Codes," on page 153.</p> <p>This field is a <i>pass-through</i>, which means that CyberSource does not verify the value or modify it in any way before sending it to the processor.</p>	Level III (R if reference_data_number is included in the request)	String (3)
reference_data_number	<p>Reference number. The meaning of this value is identified by the value of the reference_data_code field.</p> <p>This field is a <i>pass-through</i>, which means that CyberSource does not verify the value or modify it in any way before sending it to the processor.</p>	Level III (R if reference_data_code is included in the request)	String (30)
ship_from_address1	<p>Street address where the product is shipped from.</p>	Level III (O)	String (40)

Table 2 Order-Level Fields for American Express Direct (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_from_address2	Additional address information for the company that ships the product.	Level III (O)	String (40)
ship_from_city	City where the product is shipped from.	Level III (O)	String (30)
ship_from_company_name	Name of the company that ships the product.	Level III (O)	String (40)
ship_from_country	Country where the product is shipped from. Use the two-character <i>ISO Standard Country Codes</i> .	Level III (O)	String (2)
ship_from_email	Email address of the company that ships the product.	Level III (O)	String (40)
ship_from_firstname	First name of the person who is shipping the product. The combined length of this field and the ship_from_lastname field must not exceed 40 characters.	Level III (O)	String (See description)
ship_from_lastname	Last name of the person who is shipping the product. The combined length of this field and the ship_from_firstname field must not exceed 40 characters.	Level III (O)	String (See description)
ship_from_phone	Phone number of the company that ships the product.	Level III (O)	String (15)
ship_from_state	State where the product is shipped from. Use the <i>State, Province, and Territory Codes for the United States and Canada</i> .	Level III (O)	String (2)
ship_from_zip	Postal code where the product is shipped from. The postal code must consist of 5 to 9 digits. When the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space] [numeric][alpha][numeric] Example A1B 2C3	Level III (O)	String (10)

Table 2 Order-Level Fields for American Express Direct (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>The postal code is required for Level II processing in the U.S. and U.S. territories. When you do not include this field in the request, CyberSource uses the value for the billTo_postalCode field. When you do not include either field, CyberSource uses the value in your CyberSource account.</p>	Level II (See description)	String (10)
total_tax_amount	Total tax amount for all the offers in the order.	Level III (R even when the total tax amount is 0)	CAD: Decimal (7) USD: Decimal (9)
user_po	Value used by your customer to identify the order. This value is typically a purchase order number, cost center, or project number.	Level II (O)	String (17)

Offer-Level Fields

Table 3 Offer-Level Fields for American Express Direct

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
amount	<p>Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.</p> <p>Important For a Level III transaction, this value cannot be zero (0).</p>	<p>Level II (O but recommended)</p> <p>Level III (At least one offer is required)</p>	<p>CAD: Decimal (8)</p> <p>USD: Decimal (10)</p>
invoice_number	<p>Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.</p>	<p>Level II (O)</p> <p>Level III (O)</p>	String (23)
other_tax#_amount	<p>Tax amount, for the type of tax identified by the value of the corresponding other_tax#_type field, that is applied to the offer.</p> <p>Important For information about using this field, see "Offer-Level Tax Fields," page 29.</p>	Level III (O)	<p>CAD: Decimal (7)</p> <p>USD: Decimal (9)</p>
other_tax#_rate	<p>Tax rate applied to the item. A maximum of 2 decimal places is allowed. Valid range is 0 . 01 to 99 . 99. The value can also be zero.</p> <p>For example:</p> <ul style="list-style-type: none"> ■ 60% is offer0:tax_rate=60.00 ■ 25.5% is offer0:tax_rate=25.5 ■ 33.33% is offer0:tax_rate=33.33 <p>Important For information about using this field, see "Offer-Level Tax Fields," page 29.</p>	Level III (O)	Decimal (4)
other_tax#_status_indicator	<p>Status for exemption from sales and use tax. This field is a <i>pass-through</i>, which means that CyberSource does not verify the value or modify it in any way before sending it to the processor. For possible values, see Appendix B, "Exemption Status Values," on page 150.</p> <p>Important For information about using this field, see "Offer-Level Tax Fields," page 29.</p>	Level III (O)	String (1)

Table 3 Offer-Level Fields for American Express Direct (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
other_tax#_type	<p>Type of tax. Possible values:</p> <ul style="list-style-type: none"> ■ 02: State sales tax ■ 03: City sales tax ■ 04: Local sales tax ■ 10: Value-added tax (VAT) ■ 11: Goods and services tax (GST) ■ 12: Provincial sales tax ■ 13: Harmonized sales tax ■ 14: Quebec sales tax ■ 23: City tax ■ 24: County or parish sales tax ■ 25: County tax ■ 26: Environment tax ■ 27: State and local sales tax (combined) 	Level III (O)	String (2)
	<p>This field is a <i>pass-through</i>, which means that CyberSource does not verify the value or modify it in any way before sending it to the processor.</p> <p>Important For information about using this field, see "Offer-Level Tax Fields," page 29.</p>		
quantity	Quantity of the product being purchased. The default value is 1.	Level II (O but recommended) Level III (O)	Nonnegative integer (4)
reference_data_#_code	<p>Code that identifies the value of the corresponding reference_data_#_number field. Possible values:</p> <ul style="list-style-type: none"> ■ AN: Client-defined asset code ■ MG: Manufacturer's part number ■ PO: Purchase order number ■ SK: Supplier stock keeping unit number ■ UP: Universal product code ■ VC: Supplier catalog number ■ VP: Vendor part number 	Level III (R if reference_data_#_number is included in the request)	String (2)
	<p>This field is a <i>pass-through</i>, which means that CyberSource does not verify the value or modify it in any way before sending it to the processor.</p>		

Table 3 Offer-Level Fields for American Express Direct (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
reference_data_#_number	<p>Reference number. The meaning of this value is identified by the value of the corresponding reference_data_#_code field.</p> <p>The maximum length for this field depends on the value of the corresponding reference_data_#_code field:</p> <ul style="list-style-type: none"> ■ When the code is PO, the maximum length for the reference number is 22. ■ When the code is VC, the maximum length for the reference number is 20. ■ For all other codes, the maximum length for the reference number is 30. <p>This field is a <i>pass-through</i>, which means that CyberSource does not verify the value or modify it in any way before sending it to the processor.</p>	Level III (R if reference_data_#_code is included in the request)	String (See description)

Table 3 Offer-Level Fields for American Express Direct (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_amount	<p>Total tax amount for the offer. If you include the order-level total_tax_amount field, the value for that field is the total tax amount that CyberSource sends to the processor for the order. Otherwise, CyberSource adds the offer-level tax_amount values for all the offers to calculate the total tax amount to send to the processor for the order.</p> <p>The tax_amount value cannot be negative. This field is additive. For example, if you include the following offer lines:</p> <pre>offer0=amount:10.00^ quantity:1^tax_amount:0.80 offer1=amount:20.00^ quantity:1^tax_amount:1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p> <p>Level III</p> <p>If tax_amount and one or more other_tax#_amount fields are included in the request, make sure:</p> <ul style="list-style-type: none"> ■ The tax_amount value is the sum of all taxes included in the offer line. ■ The other_tax#_amount values are included in the tax_amount value. 	<p>Level II (R)</p> <p>Level III (O but recommended)</p>	<p>CAD: Decimal (7)</p> <p>USD: Decimal (9)</p>
tax_rate	<p>Tax rate applied to the item. A maximum of 2 decimal places is allowed. Valid range is 0.01 to 99.99. The value can also be zero.</p> <p>For example:</p> <ul style="list-style-type: none"> ■ 60% is offer0:tax_rate=60.00 ■ 25.5% is offer0:tax_rate=25.5 ■ 33.33% is offer0:tax_rate=33.33 	Level III (O)	String (4)
tax_status_indicator	<p>Status for exemption from sales and use tax. This field is a <i>pass-through</i>, which means that CyberSource does not verify the value or modify it in any way before sending it to the processor. For possible values, see Appendix B, "Exemption Status Values," on page 150.</p>	Level III (O)	String (1)

Table 3 Offer-Level Fields for American Express Direct (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
unit_of_measure	Code that specifies the unit of measurement for the item. See the EDI codes for units of measurement at http://ecomgx17.ecomtoday.com/edi/EDI_4010/el355.htm .	Level III (O)	String (12)
weight_amount	Weight of the item.	Level III (O)	Decimal (9)
weight_identifier	Type of weight. Possible values: <ul style="list-style-type: none"> ■ B: Billed weight ■ N: Actual net weight 	Level III (R if weight amount is included in request)	String (1)
weight_unit_measurement	Code that specifies the unit of measurement for the weight amount. For example, OZ specifies ounce and LB specifies pound. The possible values are defined by the ANSI Accredited Standards Committee (ASC).	Level III (R if weight amount is included in request)	String (2)

Offer-Level Tax Fields

The offer-level tax fields are:

- other_tax#_amount
- other_tax#_rate
- other_tax#_status_indicator
- other_tax#_type

These are the requirements for including the offer-level tax fields in a request:

- You must include the amount and type fields. When you include only one of these fields for a tax offer line, CyberSource does not forward any of the information for that tax line item to the processor.
- The first set of offer-level tax fields must use number 0. For example, **other_tax0_amount**.
- You must use consecutive numbers for the tax offer lines; do not skip a number. If you skip a number, CyberSource ignores the tax offer lines that follow the skipped number.
- The request must also include the offer-level **tax_amount** field.

You can include as many tax offer lines as needed for one offer as long as the value of **other_tax#_rate** is different for each tax offer line. See the following example.

Example 1 Three Tax Offer Lines for One Offer

```
offer0=amount:100.00^quantity:1^other_tax0_amount:1.00^other_tax0_
rate:1.00^other_tax0_status_indicator:2^other_tax0_type:02^other_tax1_
amount:1.10^other_tax1_rate:1.10^other_tax1_status_indicator:2^other_
tax1_type:04^other_tax2_amount:0.85^other_tax2_rate:0.85^other_tax2_
status_indicator:2^other_tax2_type:11
```

Chase Paymentech Solutions: Level II and Level III

Transaction Requirements



Important

When you send a capture or credit request with Level II or Level III data or both, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Processor Specification

The specifications that CyberSource used to implement Level III processing for Chase Paymentech Solutions are:

- *Paymentech's 120-Byte Technical Specification, Rev 2.0.0, December 8, 2003*
- *Paymentech's 96-Byte and 120-Byte Batch Technical Specification Addendum, Rev. 2.0.0, April 1, 2004*

The records referenced are:

- Procurement Level 3 — Visa: Order Level Record, Record #1, Record #2
- Procurement Level 3 — Mastercard: Order Level Record, Record #1, Record #2

Order-Level Fields

Table 4 Order-Level Fields for Chase Paymentech Solutions

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	Alternate Tax Amount	Total amount of alternate tax for the order.	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	Decimal (10)
alternate_tax_id	Alternate Tax ID	Your tax ID number to use for the alternate tax amount. Required if you set Alternate Tax Amount to any value, including zero. You may send this field without sending Alternate Tax Amount.	Level III <ul style="list-style-type: none"> ■ Mastercard (See description) 	String (15)
amexdata_taa1	TAA1	<p>Four transaction advice addendum fields. These fields are used to display descriptive information about a transaction on your customer's American Express card statement. If you are sending any TAA fields, start with amexdata_taa1, then ...taa2, and so on. Skipping a TAA field causes subsequent TAA fields to be ignored.</p> <p>Contact CyberSource Customer Support if you plan to use these fields so that your account can be configured appropriately.</p> <p>The amexdata_taa1 field is required for Level II transactions for American Express cards for Chase Paymentech Solutions, but the other TAA fields are optional. However, if you are including the request ID (bill_request_id) in a Level II credit request, you are not required to include amexdata_taa1.</p>	Level II <ul style="list-style-type: none"> ■ American Express (See description) 	String (40)
amexdata_taa2	TAA2			
amexdata_taa3	TAA3			
amexdata_taa4	TAA4			
duty_amount	Duty Amount	Total charges for any import or export duties included in the order.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange) 	Visa: Decimal (13) Mastercard: Decimal (10)

Table 4 Order-Level Fields for Chase Paymentech Solutions (Continued)

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
freight_amount	Freight Amount	Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include grand_total_amount .	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange) 	Visa: Decimal (13) Mastercard: Decimal (10)
grand_total_amount	No corresponding Chase Paymentech Solutions field	Grand total for the entire capture or credit request.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (15)
order_discount_amount	Discount Amount Applied to Order	Total discount applied to the order. For example: a 20.00 discount off the order total.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) 	Decimal (13)
purchasing_level	No corresponding Chase Paymentech Solutions field	Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16 .	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (1)
ship_from_zip	Ship From ZIP/Postal Code	Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits. If the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric] Example A1B 2C4	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (Required for best rate. Do not use all zeros or nines.) 	String (10)

Table 4 Order-Level Fields for Chase Paymentech Solutions (Continued)

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_country	Destination Country Code	Country of the shipping address. Use the two-character <i>ISO Standard Country Codes</i> .	Level III <ul style="list-style-type: none"> ■ Visa (Required for best rate) ■ Mastercard (Optional but recommended) 	String (2)
ship_to_zip	Destination ZIP/Postal Code	<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>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location.</p>	Level III <ul style="list-style-type: none"> ■ Visa (Required for best rate) ■ Mastercard (Required for best rate. Do not use all zeros or nines.) 	String (10)

Table 4 Order-Level Fields for Chase Paymentech Solutions (Continued)

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
user_po	Customer Reference Number	Value used by your customer to identify the order. This value is typically a purchase order number. CyberSource recommends that you do not populate the field with all zeros or nines.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise) ■ Mastercard (Required for purchase/procurement cards; optional otherwise) ■ American Express (Required for purchase/procurement cards; optional otherwise) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise) ■ Mastercard (Required for purchase/procurement cards; optional otherwise) 	String (25)
vat_tax_amount	VAT/Tax Amount	Total amount of VAT or other tax included in the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (13)
vat_tax_rate	VAT/Tax Rate	<p>Rate of VAT or other tax for the order.</p> <p>Example 0.040 (=4%)</p> <p>Valid range: 0.01 to 0.99 (1% to 99%, with only whole percentage values accepted; values with additional decimal places will be truncated)</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (4)

Offer-Level Fields



Important

The maximum number of offer lines you can have in a Level III Chase Paymentech Solutions transaction is 98. If the number of offer lines exceeds 98, Chase Paymentech Solutions rejects the batch.

Table 5 Offer-Level Fields for Chase Paymentech Solutions

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
amount	Unit Cost	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Important For a Level III transaction, this value cannot be zero (0).	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (13)
commodity_code	Item Commodity Code	Commodity code used to classify the item.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) 	String (12)
discount_amount	Visa: Discount Amount for Line Item Mastercard: Discount Amount	Discount applied to the item.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange) 	Visa: Decimal (13) Mastercard: Decimal (10)
discount_indicator	Discount Indicator	Flag that indicates whether the amount is discounted. Possible values: <ul style="list-style-type: none"> ■ Y: amount is discounted ■ N: amount is not discounted If you do not provide a value but you set Discount Amount to a value greater than zero, then CyberSource sets this field to Y.	Level III <ul style="list-style-type: none"> ■ Mastercard (Required for Level III interchange) 	String (1)

Table 5 Offer-Level Fields for Chase Paymentech Solutions (Continued)

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
gross_net_indicator	Gross/Net Indicator	Flag that indicates whether the tax amount is included in the Line Item Total. Possible values: <ul style="list-style-type: none"> ■ Y: item amount includes tax amount ■ N: item amount does not include tax amount 	Level III <ul style="list-style-type: none"> ■ Mastercard (R) 	String (1)
invoice_number	No corresponding Chase Paymentech Solutions field	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) ■ American Express (O) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
product_code	Product Code	Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is default. See Appendix C, "Product Codes," on page 152 for a list of valid values. For ics_auth , when you set this field to a value other than <code>default</code> or any of the values related to shipping and handling, the quantity , product_name , and merchant_product_sku fields are required.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange. Do not use all zeros or spaces.) 	String (12)

Table 5 Offer-Level Fields for Chase Paymentech Solutions (Continued)

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
product_name	Description	Text description of the item.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange. Do not use all zeros or spaces.) 	Visa: String (26) Mastercard: String (35)
quantity	Quantity	Number of units of the item purchased. Must be a whole number. If you do not provide this value, CyberSource sets it to 1.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange. Do not use all zeros or spaces.) 	Visa: Integer (12) Mastercard: Integer (5)

Table 5 Offer-Level Fields for Chase Paymentech Solutions (Continued)

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_amount	Tax Amount	<p>Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines:</p> <pre>offer0=amount:10.00^ quantity:1^tax_ amount: 0.80 offer1=amount:20.00^ quantity:1^tax_ amount: 1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	<p>Visa: Decimal (13)</p> <p>Mastercard: Decimal (10)</p>
tax_rate	Tax Rate	<p>Tax rate applied to the item.</p> <p>Visa: Valid range is 0.01 to 0.99 (1% to 99%, with only whole percentage values accepted; values with additional decimal places will be truncated).</p> <p>Mastercard: Valid range is 0.00001 to 0.99999 (0.001% to 99.999%).</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R) 	<p>Visa: Decimal (4)</p> <p>Mastercard: Decimal (7)</p>
tax_type_applied	Tax Type Applied	Type of tax being applied to the item.	<p>Level III</p> <ul style="list-style-type: none"> ■ Mastercard (O) 	String (4)
total_amount	Line Item Total	Total amount for the item. Normally calculated as the unit price x quantity.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R. Do not use all zeros or spaces.) 	<p>Visa: Decimal (13)</p> <p>Mastercard: Decimal (10)</p>

Table 5 Offer-Level Fields for Chase Paymentech Solutions (Continued)

CyberSource Field Name	Chase Paymentech Solutions Field Name	Description	Used By (Required/ Optional)	Data Type & Length
unit_of_measure	Unit of Measure	Unit of measure, or unit of measure code, for the item. See Appendix A, "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange. Do not use all zeros or spaces.) 	Visa: String (12) Mastercard: String (3)

CyberSource through VisaNet: Level II and Level III

Transaction Requirements



Important

When you send a capture or credit request with Level II or Level III data or both, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

CyberSource recommends including Level II data when submitting Level III data. The **user_po** field is required for all Level II and Level III requests. The **purchasing_level** field must be included in the Level III data request.

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Supported Acquirers

The following CyberSource through VisaNet acquirers are supported only for Level II processing, not Level III processing:

- Absa Bank
- Asia Commercial Bank (ACB)
- Auckland Savings Bank (ASB)
- Australia and New Zealand Banking Group Limited (ANZ)
- Axis Bank Ltd. of India
- Bangkok Bank Ltd.

- Bank Muscat of Oman
- Bank of Ayudhya (BAY)
- Banque Pour Le Commerce Exterieur Lao (BCEL)
- Barclays Bank Botswana
- Barclays Bank Mauritius Limited
- Barclays Bank of Ghana Limited, Barclays Bank of Tanzania Limited, and Barclays Bank of Uganda Limited
- Barclays Bank of Kenya
- Barclays Bank of Zambia
- Barclays Bank Seychelles
- Citibank Malaysia
- Citibank Singapore Ltd.
- Commercial Bank of Qatar
- First Data Merchant Solutions in Brunei
- First Data Merchant Solutions in Hong Kong
- First Data Merchant Solutions in Malaysia
- First Data Merchant Solutions in Singapore
- Habib Bank Ltd. (HBL)
- HDFC Bank Ltd. of India
- I&M Bank
- National Bank of Abu Dhabi (NBAD)
- Overseas Chinese Banking Corp (OCBC)
- Promerica in Honduras and Nicaragua
- United Overseas Bank (UOB) in Singapore and Vietnam
- Vantiv
- Vietcombank
- VietinBank
- Wing Lung Bank

The following CyberSource through VisaNet acquirers are supported for Level II and Level III processing:

- Banco Safra
- Bank Sinarmas (Omise Ltd.)
- BC Card Co., Ltd.
- Cathay United Bank (CUB)
- Citibank Hongkong and Macau
- Taishin Bank Ltd.
- United Overseas Bank (UOB) in Thailand
- Vietnam Technological and Commercial Joint-stock Bank

Order-Level Fields

Table 6 Order-Level Fields for CyberSource through VisaNet

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
amexdata_taa1 amexdata_taa2 amexdata_taa3 amexdata_taa4	amexDataTAA1 amexDataTAA2 amexDataTAA3 amexDataTAA4	<p>Four transaction advice addendum fields. These fields are used to display descriptive information about CPS item(s) on your customer's American Express card statement. If you are sending any TAA fields, start with amexdata_taa1, then ...taa2, and so on. Skipping a TAA field causes subsequent TAA fields to be ignored.</p> <p>Note These fields may be required depending on the processing method you use and if the customer provides charge description data.</p> <p>Contact CyberSource Customer Support if you plan to use these fields so that your account can be configured appropriately.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ American Express (O) 	String (40)
authorized_contact_name	authorized ContactName	The name of the individual or the company contacted for company authorized purchases.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (36)
card_acceptor_ref_number	cardAcceptor RefNumber	Reference number that facilitates card acceptor/corporation communication and record keeping.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (25)
duty_amount	dutyAmount	Total charges for any import or export duties included in the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
duty_amount_sign	dutyAmountSign	<p>Flag that indicates whether the duty amount should be interpreted as negative or positive. Possible values:</p> <ul style="list-style-type: none"> ■ <code>negative</code>: duty amount is considered negative and represents a refund on the invoice ■ <code>positive</code>: duty amount is considered positive and represents a cost on the invoice <p>This field relates to the value in the duty_amount field.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (8)
freight_amount	freightAmount	<p>Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include the amount field.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
freight_amount_sign	freightAmountSign	<p>Flag that indicates if the freight (shipping) amount should be interpreted as negative or positive. Possible values:</p> <ul style="list-style-type: none"> ■ <code>negative</code>: freight amount is considered negative and represents a refund on the invoice ■ <code>positive</code>: freight amount is considered positive and represents a cost on the invoice <p>This field relates to the value in the freight_amount field.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (8)
merchant_vat_registration_number	merchantVATRegistrationNumber	<p>Your government-assigned tax identification number.</p> <p>Note For Payouts, the maximum length of this field is different. See <i>Payouts for CyberSource through VisaNet Using the SCMP API</i>.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (20)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
national_tax_indicator	nationalTaxIncluded	<p>Flag that indicates whether a national tax is included in the order total. Possible values:</p> <ul style="list-style-type: none"> ■ 0: national tax not included ■ 1: national tax included <p>This value must be 1 if the sum of all national_tax values > 0.</p> <p>If you do not include any national_tax values in your request, CyberSource does not include national_tax_indicator in the data it sends to the processor.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required if the sum of all national_tax values = 0; otherwise, optional.) ■ Mastercard (Required if the sum of all national_tax values = 0; otherwise, optional.) ■ American Express (Required if the sum of all national_tax values = 0; otherwise, optional.) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required if the sum of all national_tax values = 0; otherwise, optional.) ■ Mastercard (Required if the sum of all national_tax values = 0; otherwise, optional.) 	String (1)
order_discount_amount	discountAmount	Total discount applied to the order. For example: a 20.00 discount off the order total.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
order_discount_amount_sign	discountAmount Sign	<p>Flag that indicates whether the invoice level discount amount should be interpreted as negative or positive. Possible values:</p> <ul style="list-style-type: none"> negative: discount amount is considered as a discount refund for the invoice positive: discount amount is considered as a discount for the invoice <p>Note A positive value for the discount amount is considered to reduce the amount of the invoice.</p> <p>This field relates to the value in the order_discount_amount field.</p>	<p>Level III</p> <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	String (8)
order_discount_management_indicator	discount Management Indicator	<p>Flag that indicates how the merchant manages discounts. Possible values:</p> <ul style="list-style-type: none"> 0: no invoice level discount included 1: tax calculated on the post-discount invoice total 2: tax calculated on the pre-discount invoice total <p>This field relates to the value in the order_discount_amount field.</p>	<p>Level III</p> <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	String (1)
purchaser_order_date	purchaserOrder Date	<p>Date the order was processed. Format: YYMMDD</p>	<p>Level III</p> <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	String (6)
purchaser_vat_registration_number	purchaserVAT Registration Number	<p>Customer's government-assigned tax identification number.</p>	<p>Level III</p> <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	String (20)
purchasing_level	No corresponding CyberSource through VisaNet field	<p>Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16.</p>	<p>Level III</p> <ul style="list-style-type: none"> Visa (R) Mastercard (R) 	String (1)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_from_zip	shipFrom Address	<p>Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits.</p> <p>If 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>If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric]</p> <p>Example A1B 2C4</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (10)
ship_to_state	state	<p>State or province of the shipping address. Use the State, Province, and Territory Codes for the United States and Canada.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (3)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	shipTo Address	<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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) ■ American Express (O) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (20)
summary_commodity_code	summary Commodity Code	International description code of the overall order's goods or services. Contact your acquirer for a list of codes.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (4)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_indicator	localTax Included	<p>Flag that indicates whether an order is taxable. Possible values:</p> <ul style="list-style-type: none"> ■ Y: the order is taxable. ■ N: the order is not taxable. <p>This value must be Y if the sum of all tax_amount values > 0.</p> <p>If you do not include any tax_amount values in your request, CyberSource does not include tax_indicator in the data it sends to the processor.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required if the sum of all tax_amount values = 0; otherwise, optional.) ■ Mastercard (Required if the sum of all tax_amount values = 0; otherwise, optional.) ■ American Express (Required if the sum of all tax_amount values = 0; otherwise, optional.) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required if the sum of all tax_amount values = 0; otherwise, optional.) ■ Mastercard (Required if the sum of all tax_amount values = 0; otherwise, optional.) 	String (1)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_management_indicator	taxManagementIndicator	Flag that indicates how you calculate tax. Possible values: <ul style="list-style-type: none"> 0: net prices with tax calculated at line item level 1: net prices with tax calculated at invoice level 2: gross prices with tax provided at line item level 3: gross prices with tax provided at invoice level 4: no tax applies on the invoice for the transaction 	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)
total_tax_type_code	totalTaxTypeCode	For tax amounts that can be categorized as one tax type. This field contains the tax type code that corresponds to the entry in the tax_amount field. Possible values: <ul style="list-style-type: none"> 056: sales tax (U.S only) TX~: all taxes (Canada only) Note ~ = space.	Level II <ul style="list-style-type: none"> ■ American Express (O) 	String (3)
user_po	customerCode	Value that identifies your customer.	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String with letters and numbers only (17)
vat_invoice_ref_number	vatInvoiceReferenceNumber	Invoice number associated with the transaction.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (15)
vat_tax_rate	vatTaxRate	Tax rate or other tax for the order. A maximum of 2 decimal places is allowed. <p>Example 60% is 60.00</p>	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (4)

Table 6 Order-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
vat_tax_amount_sign	vatTaxAmount Sign	<p>Flag that indicates if the VAT tax amount should be interpreted as negative or positive. Possible values:</p> <ul style="list-style-type: none"> ■ negative: VAT amount is considered negative for the invoice ■ positive: VAT amount is considered positive for the invoice <p>This field relates to the value in the vat_tax_amount field.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (8)

Offer-Level Fields

Table 7 Offer-Level Fields for CyberSource through VisaNet

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
amount	unitPrice	<p>Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. A maximum of 4 decimal places is allowed. CyberSource truncates the amount to the correct number of decimal places.</p> <p>Important For a Level III transaction, this value cannot be zero (0).</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ American Express (O) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
commodity_code	commodityCode	International description code used to classify the item. Contact your acquirer for a list of codes.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (12)
discount_amount	discountAmount	Discount applied to the item.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)

Table 7 Offer-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
discount_management_indicator	discountManagementIndicator	<p>Flag to indicate how you handle discount at the line item level. Possible values:</p> <ul style="list-style-type: none"> ■ 0: no line level discount provided ■ 1: tax was calculated on the post-discount line item total ■ 2: tax was calculated on the pre-discount line item total <p>Note Visa will inset 0 (zero) if an invalid value is included in this field.</p> <p>This field relates to the value in the discount_amount field.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)
discount_rate	discountRate	<p>Rate the item is discounted. A maximum of 2 decimal places is allowed.</p> <p>Example 5.25 (=5.25%)</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (5)
invoice_number	invoiceNumber	<p>Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (15)
national_tax	nationalTaxAmount	<p>Amount of national tax.</p> <p>This value cannot exceed 99999999999 (twelve 9s). This value cannot be negative.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) ■ American Express (O) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
product_code	productCode	<p>Product code for the item.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (15)

Table 7 Offer-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
product_name	productName	Product name for the item.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (35)
quantity	quantity	Number of units of the item purchased. A maximum of 4 decimal places is allowed. For example 1.1234. If you do not provide this value, CyberSource sets it to 1.0.	Level II <ul style="list-style-type: none"> ■ American Express (O) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
sign	sign	Flag to indicate whether the line item should be interpreted as negative or positive. Possible values: <ul style="list-style-type: none"> ■ negative ■ positive This field relates to the value in the tax_amount field.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (8)
tax_amount	localTax Amount	Total tax to apply to the product. This value cannot exceed 999999999999 (twelve 9s). This value cannot be negative. <p>This value is the amount of state or provincial tax included in the transaction amount.</p> <p>If you do not include this field in your request, CyberSource sets this field to the default value of 0.</p>	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) ■ American Express (O) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)

Table 7 Offer-Level Fields for CyberSource through VisaNet (Continued)

CyberSource Field Name	CyberSource through VisaNet Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_rate	taxRate	<p>Tax rate applied to the item. A maximum of 2 decimal places is allowed. Valid range is 0.01 to 99.99. The value can also be zero.</p> <p>For example:</p> <ul style="list-style-type: none"> ■ 60% is offer0:tax_rate=60.00 ■ 25.5% is offer0:tax_rate=25.5 ■ 33.33% is offer0:tax_rate=33.33 	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (4)
tax_status_indicator	taxStatus Indicator	<p>Flag to indicate whether tax is exempted or not included. Possible values:</p> <ul style="list-style-type: none"> ■ 0: tax not included ■ 1: tax included ■ 2: transaction is not subject to tax 	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)
total_amount	totalAmount	Total purchase amount for the item. Normally calculated as the unit price x quantity.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
type_of_supply	typeOf Supply	<p>Flag to indicate whether the purchase is categorized as goods or services. Possible values:</p> <ul style="list-style-type: none"> ■ 00: goods ■ 01: services 	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (2)
unit_of_measure	unitOfMeasure	<p>Unit of measure for the item. See "Codes for Units of Measurement," page 143.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (12)

Elavon Americas: Level II and Level III

Transaction Requirements



Important

When you send a capture request with Level II or Level III data or both, you must include the required fields for every capture request. For information about the non-Level-II and non-Level-III fields required for capture requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Order-Level Fields

Table 8 Order-Level Fields for Elavon Americas

CyberSource Field Name	Elavon Americas Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
alternate_tax_amount	National / Alternate Tax	Total amount of alternate tax for the order.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
alternate_tax_amount	Other Tax	Total amount of alternate tax for the order.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (12)

Table 8 Order-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
alternate_tax_amount_indicator	National / Alternate Tax Included	Flag that indicates whether the alternate tax amount (alternate_tax_amount) is included in the request. Possible values: <ul style="list-style-type: none"> 0: alternate tax amount is not included in the request. 1: alternate tax amount is included in the request. 	Level III <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	String (1)
duty_amount	Duty Amount	Total charges for any import or export duties included in the order.	Level III <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	Decimal (12)
freight_amount	Freight/ Shipping Amount	Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include grand_total_amount .	Level III <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	Decimal (12)
local_tax	Sales Tax Amount	Sales tax applied to the item. Important For Mastercard, do not set this field to 0 (zero).	Levels II and III <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	Decimal (10)
local_tax_indicator	Sales Tax Included	Flag that indicates whether local sales tax is included in the order total. Possible values: <ul style="list-style-type: none"> 0: local sales tax not included 1: local sales tax included 2: tax exempt order 	Levels II and III For Visa and Mastercard: (R) if the sum of all tax_amount values = 0 (O) if the sum of all tax_amount values > 0	String (1)
merchant_vat_registration_number	Merchant VAT Reg / Single Business Reference Number	Your government-assigned tax identification number.	Level III <ul style="list-style-type: none"> Visa (O) 	String (20)

Table 8 Order-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
national_tax	National / Alternate Tax	Amount of national tax or value added tax for countries in which more than one tax is applied. Provide this value if national_tax differs from tax_amount . If you do not provide this value, CyberSource assumes that national_tax is equal to tax_amount . Important For Mastercard, do not set this field to 0 (zero).	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
national_tax_indicator	National / Alternate Tax Included	Flag that indicates whether a national tax is included in the order total. Possible values: <ul style="list-style-type: none"> ■ 0: national tax not included ■ 1: national tax included 	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)
order_discount_amount	Discount Amount	Total discount applied to the order. For example: a 20.00 discount off the order total.	Level III <ul style="list-style-type: none"> ■ Visa (O) (Recommended for best rate) ■ Mastercard (O) (Recommended for best rate. Do not use all zeros or nines) 	Decimal (12)
purchaser_order_date	Order Date	Date the order was processed. Format: YYMMDD.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (6)
purchaser_vat_registration_number	Customer VAT Registration Number	Identification number assigned to the purchasing company by the tax authorities.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (13)

Table 8 Order-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_from_zip	Ship From Postal / Zip Code	<p>Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits.</p> <p>If 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>If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric]</p> <p>Example A1B 2C4</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (Recommended for best rate. Do not use all zeros or nines) 	String (10)
ship_to_country	Destination Country Code	<p>Country of the shipping address. Use the two-character <i>ISO Standard Country Codes</i>.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Recommended for best rate) ■ Mastercard (O) (but recommended) 	String (3)

Table 8 Order-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_zip	Destination Postal / Zip Code	<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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (10)
summary_commodity_code	Summary Commodity Code	Categorizes purchases for VAT reporting.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) 	String (4)
user_po	Purchase Identifier	Value used by your customer to identify the order. This value is typically a purchase order number. CyberSource recommends that you do not populate the field with all zeros or nines.	<p>Levels II and III</p> <p>For Visa and Mastercard:</p> <p>(R) only for purchase/procurement cards</p> <p>(O) for non-purchase/procurement cards</p>	String (17)
vat_invoice_ref_number	VAT Invoice Reference Number (Unique)	VAT invoice number associated with the transaction.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	String (15)
vat_tax_amount	VAT / Tax Amount (Freight)	Total amount of VAT or other tax included in the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (12)

Table 8 Order-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
vat_tax_rate	VAT / Tax Rate (Freight)	Rate of VAT or other tax for the order. Example 0.040 (=4%) Valid range: 0.01 to 0.99 (1% to 99%, with only whole percentage values accepted; values with additional decimal places will be truncated)	Level III ■ Visa (O)	Decimal (4)

Offer-Level Fields

Table 9 Offer-Level Fields for Elavon Americas

CyberSource Field Name	Elavon Americas Field Name	Elavon Americas Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
alternate_tax_id	Visa	Mastercard	Tax Amount Your tax ID number to use for the alternate tax amount. Required if you set Alternate Tax Amount to any value. You may send this field without sending Alternate Tax Amount.	Level III ■ Mastercard (O)	String (15)
amount	Unit Cost		Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Important For a Level III transaction, this value cannot be zero (0).	Level III ■ Visa (R)	Decimal (12)
commodity_code	Item Commodity Code		Commodity code used to classify the item.	Level III ■ Visa (R)	String (12)

Table 9 Offer-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name Visa	Elavon Americas Field Name Mastercard	Description	Used By: Required (R) or Optional (O)	Data Type & Length
discount_amount	Discount Per line Item	Discount Amount	Discount applied to the item.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	Visa Decimal (12) MasterCard Decimal (9)
discount_indicator		Discount Indicator	Flag that indicates whether the amount is discounted. Possible values: <ul style="list-style-type: none"> ■ Y: amount is discounted ■ N: amount is not discounted <p>If you do not provide a value but you set Discount Amount to a value greater than zero, then CyberSource sets this field to Y.</p>	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)
gross_net_indicator		Net / Gross Indicator	Flag that indicates whether the tax amount is included in the Line Item Total. Possible values: <ul style="list-style-type: none"> ■ Y: item amount includes tax amount ■ N: item amount does not include tax amount 	Level III <ul style="list-style-type: none"> ■ Mastercard (R) 	String (1)

Table 9 Offer-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name Visa	Elavon Americas Field Name Mastercard	Description	Used By: Required (R) or Optional (O)	Data Type & Length
product_code	Discount Per line Item	Product Code	Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is <code>default</code> . See Appendix C, "Product Codes," on page 152 for a list of valid values. For <code>ics_auth</code> , when you set this field to a value other than <code>default</code> or any of the values related to shipping and handling, the quantity , product_name , and merchant_product_sku fields are required.	Level III ■ Visa (R) ■ Mastercard (R)	String (12)
product_name	Item Description	Item Description	Text description of the item.	Level III ■ Visa (R) ■ Mastercard (R)	Visa String (25) MasterCard String (35)
quantity	Quantity	Quantity	Number of units of the item purchased. Must be a whole number. If you do not provide this value, CyberSource sets it to 1.	Level III ■ Visa (R) ■ Mastercard (R)	Visa Decimal (12) MasterCard Decimal (5)

Table 9 Offer-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name Visa	Elavon Americas Field Name Mastercard	Description	Used By: Required (R) or Optional (O)	Data Type & Length
tax_amount	VAT / Tax Amount	Tax Amount	<p>Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines:</p> <pre>offer0=amount:10.00^ quantity:1^tax_ amount: 0.80 offer1=amount:20.00^ quantity:1^tax_ amount: 1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	<p>Visa Decimal(12) MasterCard Decimal(9)</p>
tax_rate	VAT / Tax Rate	Tax Rate Applied	<p>Tax rate applied to the item.</p> <p>Visa: Valid range is 0.01 to 0.99 (1% to 99%, with only whole percentage values accepted; values with additional decimal places will be truncated).</p> <p>Mastercard: Valid range is 0.00001 to 0.99999 (0.001% to 99.999%).</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	<p>Visa Decimal(4) MasterCard Decimal(5)</p>

Table 9 Offer-Level Fields for Elavon Americas (Continued)

CyberSource Field Name	Elavon Americas Field Name Visa	Elavon Americas Field Name Mastercard	Description	Used By: Required (R) or Optional (O)	Data Type & Length
tax_type_applied		Tax Type Applied	Type of tax being applied to the item.	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String(4)
total_amount	Line Item Total	Extended Item Amount	Total amount for the item. Normally calculated as the unit price x quantity.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Visa Decimal(12) MasterCard Decimal(9)
unit_of_measure	Unit of Measure	Unit of Measure	Unit of measure, or unit of measure code, for the item. See Appendix A, "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R) 	Visa String(12) MasterCard String(3)

FDC Compass: Level II and Level III

Transaction Requirements



Important

When you send a capture or credit request with Level II or Level III data or both, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Processor Specification

The specification that CyberSource used to implement Level III processing for FDC Compass is the *Compass 120-Byte Processing Technical Specification, Version 1.9, July 28, 2009*.

Order-Level Fields

Table 10 Order-Level Fields for FDC Compass

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	Alternate Tax	Total amount of alternate tax for the order.	Level III <ul style="list-style-type: none"> Mastercard (O) 	Decimal (10)
alternate_tax_id	Alternate Tax ID	Your tax ID number to use for the alternate tax amount. Required if you set Alternate Tax Amount to any value, including zero. You may send this field without sending Alternate Tax Amount.	Level III <ul style="list-style-type: none"> Mastercard (See description) 	String (15)
amexdata_taa1	TAA1	Four transaction advice addendum fields. These fields are used to display descriptive information about a transaction on your customer's American Express card statement. If you are sending any TAA fields, start with amexdata_taa1 , then ...taa2 , and so on. Skipping a TAA field causes subsequent TAA fields to be ignored. Contact CyberSource Customer Support if you plan to use these fields so that your account can be configured appropriately. The amexdata_taa1 field is required for Level II transactions for American Express cards for FDC Compass, but the other TAA fields are optional. However, if you are including the request ID (bill_request_id) in a Level II credit request, you are not required to include amexdata_taa1 .	Level II <ul style="list-style-type: none"> American Express (See description) 	String (40)
amexdata_taa2	TAA2			
amexdata_taa3	TAA3			
amexdata_taa4	TAA4			
duty_amount	Duty Amount	Total charges for any import or export duties included in the order.	Level III <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	Visa: Decimal (13) Mastercard: Decimal (10)
freight_amount	Freight Amount	Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include grand_total_amount .	Level III <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	Visa: Decimal (13) Mastercard: Decimal (10)
grand_total_amount	No corresponding FDC Compass field	Grand total for the entire capture or credit request.	Level III <ul style="list-style-type: none"> Visa (R) Mastercard (R) 	Decimal (15)

Table 10 Order-Level Fields for FDC Compass (Continued)

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
order_discount_amount	Discount Amount Applied to Order	Total discount applied to the order. For example: a 20.00 discount off the order total.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (13)
purchasing_level	No corresponding FDC Compass field	Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (1)
ship_from_zip	Ship From ZIP/Postal Code	Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits. If the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric] Example A1B 2C4	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (Required for best rate. Do not use all zeros or nines.) 	String (10)
ship_to_country	Destination Country Code	Country of the shipping address. Use the two-character ISO Standard Country Codes .	Level III <ul style="list-style-type: none"> ■ Visa (Required for best rate) ■ Mastercard (Optional but recommended) 	String (2)

Table 10 Order-Level Fields for FDC Compass (Continued)

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	Destination ZIP/Postal Code	<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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required for best rate) ■ Mastercard (Required for best rate. Do not use all zeros or nines.) 	String (10)

Table 10 Order-Level Fields for FDC Compass (Continued)

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
user_po	Customer Reference Number	Value used by your customer to identify the order. This value is typically a purchase order number. CyberSource recommends that you do not populate the field with all zeros or nines.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise) ■ Mastercard (Required for purchase/procurement cards; optional otherwise) ■ American Express (Required for purchase/procurement cards; optional otherwise) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise) ■ Mastercard (Required for purchase/procurement cards; optional otherwise) 	String (25)
vat_tax_amount	VAT/Tax Amount	Total amount of VAT or other tax included in the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (13)
vat_tax_rate	VAT/Tax Rate	<p>Rate of VAT or other tax for the order.</p> <p>Example 0.040 (=4%)</p> <p>Valid range: 0.01 to 0.99 (1% to 99%, with only whole percentage values accepted; values with additional decimal places will be truncated)</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (4)

Offer-Level Fields



Important

The maximum number of offer lines you can have in a Level III FDC Compass transaction is 98. If the number of offer lines exceeds 98, FDC Compass rejects the batch.

Table 11 Offer-Level Fields for FDC Compass

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
amount	Unit Cost	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Important For a Level III transaction, this value cannot be zero (0).	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (13)
commodity_code	Item Commodity Code	Commodity code used to classify the item.	Level III <ul style="list-style-type: none"> ■ Visa (R) 	String (12)
discount_amount	Visa: Discount Amount for Line Item Mastercard: Discount Amount	Discount applied to the item.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Visa: Decimal (13) Mastercard: Decimal (10)
discount_indicator	Discount Indicator	Flag that indicates whether the amount is discounted. Possible values: <ul style="list-style-type: none"> ■ Y: amount is discounted ■ N: amount is not discounted If you do not provide a value but you set Discount Amount to a value greater than zero, then CyberSource sets this field to Y.	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)

Table 11 Offer-Level Fields for FDC Compass (Continued)

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
gross_net_indicator	Gross/Net Indicator	Flag that indicates whether the tax amount is included in the Line Item Total. Possible values: <ul style="list-style-type: none"> ■ Y: item amount includes tax amount ■ N: item amount does not include tax amount 	Level III <ul style="list-style-type: none"> ■ Mastercard (R) 	String (1)
invoice_number	No corresponding FDC Compass field	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) ■ American Express (O) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
product_code	Product Code	Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is default. See Appendix C, "Product Codes," on page 152 for a list of valid values. For ics_auth , when you set this field to a value other than default or any of the values related to shipping and handling, the quantity , product_name , and merchant_product_sku fields are required.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (Required for best rate. Do not use all zeros or spaces.) 	String (12)
product_name	Description	Text description of the item.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R. Do not use all zeros or spaces.) 	Visa: String (26) Mastercard: String (35)

Table 11 Offer-Level Fields for FDC Compass (Continued)

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
quantity	Quantity	Number of units of the item purchased. Must be a whole number. If you do not provide this value, CyberSource sets it to 1.	Level III <ul style="list-style-type: none"> ■ Visa (Required for best rate) ■ Mastercard (Required for best rate. Do not use all zeros or spaces.) 	Visa: Integer (12) Mastercard: Integer (5)
tax_amount	Tax Amount	Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines: offer0=amount:10.00^ quantity:1^tax_amount:0.80 offer1=amount:20.00^ quantity:1^tax_amount:1.60 the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency. If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API .	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Visa: Decimal (13) Mastercard: Decimal (10)
tax_rate	Tax Rate	Tax rate applied to the item. Visa: Valid range is 0.01 to 0.99 (1% to 99%, with only whole percentage values accepted; values with additional decimal places will be truncated). Mastercard: Valid range is 0.00001 to 0.99999 (0.001% to 99.999%).	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R) 	Visa: Decimal (4) Mastercard: Decimal (7)
tax_type_applied	Tax Type Applied	Type of tax being applied to the item.	Level III (O) <ul style="list-style-type: none"> ■ Mastercard 	String (4)

Table 11 Offer-Level Fields for FDC Compass (Continued)

CyberSource Field Name	FDC Compass Field Name	Description	Used By (Required/Optional)	Data Type & Length
total_amount	Line Item Total	Total amount for the item. Normally calculated as the unit price x quantity.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R. Do not use all zeros or spaces.) 	Visa: Decimal (13) Mastercard: Decimal (10)
unit_of_measure	Unit of Measure	Unit of measure, or unit of measure code, for the item. See Appendix A, "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R. Do not use all zeros or spaces.) 	Visa: String (12) Mastercard: String (3)

FDC Nashville Global: Level II and Level III



Starting May 1, 2012: Due to the limited functionality of the **supplier_order_reference** field, CyberSource recommends that you use the offer-level field **product_name** instead. Include only one of these fields in a request; including both fields could result in an error.

Transaction Requirements



When you send a capture or credit request with Level II or Level III data or both, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Processor Specification

The specification that CyberSource used to implement Level III processing for FDC Nashville Global is the *First Data PTS Specification, v2010-2*, October 30, 2010.

Order-Level Fields

Table 12 Order-Level Fields for FDC Nashville Global

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	Other Tax Amount	<p>Amount of all taxes, excluding the local tax amount (tax_amount) and national tax (national_tax) included in the total tax.</p> <p>Note Do not confuse this order-level field with the alternate_tax_amount offer-level field.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for non-U.S. transactions; otherwise, not used) ■ Mastercard (Required for non-U.S. transactions; otherwise, not used) ■ American Express (Required for non-U.S. transactions; otherwise, not used) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Optional for non-U.S. transactions; otherwise, not used) ■ Mastercard (Optional for non-U.S. transactions; otherwise, not used) 	Decimal (11)

Table 12 Order-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount_indicator	Other Tax Indicator	Flag that indicates whether the alternate tax amount (alternate_tax_amount) is included in the request. Possible values: <ul style="list-style-type: none"> 0: alternate tax amount is not included in the request. 1: alternate tax amount is included in the request. 	<p>Level II</p> <ul style="list-style-type: none"> Mastercard (Required for non-U.S. transactions; otherwise, not used) <p>Level III</p> <ul style="list-style-type: none"> Mastercard (Optional for non-U.S. transactions; otherwise, not used) 	String (1)
duty_amount	Duty Amount	Total charges for any import or export duties included in the order. This value cannot be negative.	<p>Level II</p> <ul style="list-style-type: none"> Visa (R) Mastercard (O) <p>Level III</p> <ul style="list-style-type: none"> Visa (O) 	Decimal (11)
freight_amount	Freight Amount	Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include grand_total_amount .	<p>Level III</p> <ul style="list-style-type: none"> Visa (O) Mastercard (O) 	Decimal (13)
grand_total_amount	No corresponding FDC Nashville Global field	Grand total for the entire capture or credit request.	<p>Level III</p> <ul style="list-style-type: none"> Visa (R) Mastercard (R) 	Decimal (15)
order_discount_amount	Discount Amount	Total discount applied to the order. For example: a 20.00 discount off the order total. This value cannot be negative.	<p>Level II</p> <ul style="list-style-type: none"> Visa (R) Mastercard (O) <p>Level III</p> <ul style="list-style-type: none"> Visa (O) 	Decimal (11)

Table 12 Order-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
purchaser_vat_registration_number	Customer VAT Registration Number	Identification number assigned to the purchasing company by the tax authorities.	Level II <ul style="list-style-type: none"> ■ Visa (Required for non-U.S. Visa transactions; otherwise, not used) 	String (13)
purchasing_level	No corresponding FDC Nashville Global field	Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (1)
ship_from_zip	Ship From Zip	Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits. If the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric] Example A1B 2C4	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (10)

Table 12 Order-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_country	Destination Country	Country of the shipping address. Use the two-character <i>ISO Standard Country Codes</i> . Note If you include the ship_to_country field in a request and if the ship-to country is the U.S. or Canada, the request must also include the ship_to_state field.	Level II <ul style="list-style-type: none"> Mastercard (R) Level III <ul style="list-style-type: none"> Visa (Required if freight_amount is included; otherwise, recommended for best rate) Mastercard (Optional but recommended) 	String (2)
ship_to_state		State or province of the shipping address. Use the <i>State, Province, and Territory Codes for the United States and Canada</i> . This field must be included in a request if the ship_to_country field is included and the ship-to country is the U.S. or Canada.	Level II <ul style="list-style-type: none"> Mastercard (R) Level III <ul style="list-style-type: none"> Visa (See description) Mastercard (See description) 	String (2)

Table 12 Order-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	Destination 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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location.</p> <p>If the postal code for the shipping address is not included in the request message, CyberSource uses the postal code for the billing address. If 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>Level II</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (10)
supplier_order_reference	Item Description Part A	<p>Text description of the item.</p> <p>Important Starting May 1, 2012: Due to the limited functionality of the supplier_order_reference field, CyberSource recommends that you use the offer-level field product_name instead. Include only one of these fields in a request; including both fields could result in an error.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (Required for reduced interchange) 	String (25)

Table 12 Order-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
user_po	Customer Code	Value used by your customer to identify the order. This value is typically a purchase order number. You must provide a value in this field or in the merchant_ref_number field. CyberSource recommends that you do not populate the field with all zeros or nines.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (See description) ■ Mastercard (See description) ■ American Express (See description) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (See description) ■ Mastercard (See description) 	String (25)
vat_invoice_ref_number	VAT Invoice Reference Number	VAT invoice number associated with the transaction.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for non-U.S. Visa transactions; otherwise, not used) 	String (15)

Table 12 Order-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
vat_tax_	VAT/Tax Amount	Total amount of VAT or other tax on freight or shipping only.	Level II <ul style="list-style-type: none"> ■ Visa (Optional for non-U.S. transactions; otherwise, not used) ■ Mastercard (Optional for non-U.S. transactions; otherwise, not used) ■ American Express (Optional for non-U.S. transactions; otherwise, not used) 	Decimal (11)
vat_tax_rate	VAT/Tax Rate	Vat tax rate for freight or shipping.	Level II <ul style="list-style-type: none"> ■ Visa (Optional for non-U.S. transactions; otherwise, not used) ■ Mastercard (Optional for non-U.S. transactions; otherwise, not used) ■ American Express (Optional for non-U.S. transactions; otherwise, not used) 	Decimal (5)

Offer-Level Fields

Table 13 Offer-Level Fields for FDC Nashville Global

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	Item Other Tax Amount	<p>Visa: VAT or other tax amount.</p> <p>Mastercard: Tax amount collected for a special type of tax.</p> <p>Important For Mastercard, do not set this field to 0 (zero).</p> <p>Note Do not confuse this offer-level field with the alternate_tax_amount order-level field.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (13)
alternate_tax_id	Tax Amount 1 Tax ID	Your tax ID number to use for the alternate tax amount.	<p>Level III</p> <ul style="list-style-type: none"> ■ Mastercard (Required if alternate_tax_amount is included; otherwise, optional.) 	String (15)
alternate_tax_rate	Item Tax Rate Applied	<p>Mastercard: Tax rate for a type of tax collected.</p> <p>Visa: VAT or other tax rate.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (5)
alternate_tax_type_applied	Item Tax Type Applied	<p>Mastercard: Flag that defines tax categories for domestic processing in certain locations.</p> <p>Visa: VAT or other tax type.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (4)

Table 13 Offer-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_type_identifier	Tax Type Identifier	Flag that indicates the type of tax collected for alternate_tax_amount . Possible values: <ul style="list-style-type: none"> ■ 00 : unknown ■ 01 : federal or national sales tax ■ 02 : states sales tax ■ 03 : city sales tax ■ 04 : local sales tax ■ 05 : municipal sales tax ■ 06 : other tax ■ 10 : value-added tax (VAT) ■ 11 : goods and services tax (GST) ■ 12 : provincial sales tax ■ 20 : room tax ■ 21 : occupancy tax ■ 22 : energy tax 	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (2)
amount	Item Unit Cost	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. <p>Important For a Level III transaction, this value cannot be zero (0).</p> <p>Important For Mastercard, this value cannot be zero (0).</p>	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (13)
commodity_code	Item Commodity Code	International description code used to classify the item. Contact your acquirer or FDC Nashville Global for a list of codes.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	String (12)
discount_amount	Item Discount Amount	Discount applied to the item. <p>Important For Mastercard, do not set this field to 0 (zero).</p>	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (13)

Table 13 Offer-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
invoice_number	No corresponding FDC Nashville Global field	You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) ■ American Express (O) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
local_tax	Item Local Tax Amount	Sales tax applied to the item. Important For Mastercard, do not set this field to 0 (zero).	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (13)
merchant_product_sku	Item Customer Code	Identification code for the product. For ics_auth and ics_bill , this field is required when product_code is not <code>default</code> or one of the values related to shipping or handling.	Level III <ul style="list-style-type: none"> ■ Visa (See description) ■ Mastercard (See description) 	String (30)
national_tax	National Tax Amount	Amount of national tax or value added tax for countries in which more than one tax is applied. Provide this value if national_tax differs from tax_amount . If you do not provide this value, CyberSource assumes that national_tax is equal to tax_amount . Important For Mastercard, do not set this field to 0 (zero).	Level II <ul style="list-style-type: none"> ■ Visa (Required for non-U.S. transactions; otherwise, not used) 	Decimal (11)
product_code	Item Product Code	Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is <code>default</code> . See Appendix C, "Product Codes," on page 152 for a list of valid values. For ics_auth , when you set this field to a value other than <code>default</code> or any of the values related to shipping and handling, the quantity , product_name , and merchant_product_sku fields are required.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (Required for reduced interchange) 	String (12)

Table 13 Offer-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/Optional)	Data Type & Length
product_name	Description	Text description of the item.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R. Do not use all zeros or spaces.) 	Visa: String (26) Mastercard: String (35)
quantity	Item Quantity	Number of units of the item purchased. Must be a whole number. If you do not provide this value, CyberSource uses 1.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (Required for reduced interchange) 	Integer (12)
tax_amount	Local Tax Amount	<p>Total tax to apply to the product. This value cannot be negative. The tax amount and the offer amount must be in the same currency.</p> <p>The tax amount field is additive. The following example uses a two-exponent currency such as USD:</p> <ol style="list-style-type: none"> You include the following offer lines in your request: <pre>offer0=amount:10.00^quantity:1^tax_amount:0.80 offer1=amount:20.00^quantity:1^tax_amount:1.60</pre> The total amount authorized will be 32.40, not 30.00 with 2.40 of tax included. <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p> <p>Note This value is the sales tax. For Visa transactions, this value must be between 0.1% and 22% of the total sale.</p> <p>Note For Visa and American Express, if this value is 0 (zero), the order is tax exempt.</p> <p>Important For Mastercard, do not set this field to 0 (zero).</p>	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) 	Visa & Mastercard: Decimal (11) American Express: Decimal (9)

Table 13 Offer-Level Fields for FDC Nashville Global (Continued)

CyberSource Field Name	FDC Nashville Global Field Name	Description	Used By (Required/ Optional)	Data Type & Length
unit_of_measure	Item Bulk/Unit of Measure	Unit of measure, or unit of measure code, for the item. See Appendix A , "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (Required for reduced interchange) 	String (12)

Transaction Requirements



When you send a capture or credit request with Level II data, you must include the required fields for every capture or credit request. For information about the non-Level-II fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Order-Level Fields

Table 14 Order-Level Fields for FDMS Nashville

CyberSource Field Name	Description	Used By (Required/Optional)	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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>If the postal code for the shipping address is not included in the request message, CyberSource uses the postal code for the billing address. If 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>Level II</p> <ul style="list-style-type: none"> ■ Visa ■ Mastercard 	String (10)
tax_indicator	<p>Flag that indicates whether an order is taxable. Possible values:</p> <ul style="list-style-type: none"> ■ Y: the order is taxable. ■ N: the order is not taxable. 	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa ■ Mastercard 	String (1)
user_po	<p>Value used by your customer to identify the order. This value is typically a purchase order number. CyberSource recommends that you do not populate the field with all zeros or nines.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise) ■ Mastercard (Required for purchase/procurement cards; optional otherwise) 	String (25)

Offer-Level Fields

Table 15 Offer-Level Fields for FDMS Nashville

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
amount	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (15)
invoice_number	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
tax_amount	<p>Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines:</p> <pre>offer0=amount:10.00^ quantity:1^tax_amount: 0.80 offer1=amount:20.00^ quantity:1^tax_amount: 1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p>	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (15)

FDMS South: Level II

Transaction Requirements



Important

When you send a capture or credit request with Level II data, you must include the required fields for every capture or credit request. For information about the non-Level-II fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Order-Level Fields

Table 16 Order-Level Fields for FDMS South

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
duty_amount	Total charges for any import or export duties included in the order. This value cannot be negative.	Level II <ul style="list-style-type: none"> Mastercard 	Decimal (15)
purchaser_code	Customer ID reference number that identifies the customer for a Level II transaction.	Level II <ul style="list-style-type: none"> Visa (Required for purchase/procurement cards; optional otherwise) 	String (17)
purchaser_vat_registration_number	Identification number assigned to the purchasing company by the tax authorities.	Level II <ul style="list-style-type: none"> Visa 	String (13)
ship_from_zip	<p>Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits.</p> <p>If 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>If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric]</p> <p>Example A1B 2C4</p>	Level II <ul style="list-style-type: none"> Mastercard 	String (10)
ship_to_country	Country of the shipping address. Use the two-character <i>ISO Standard Country Codes</i> .	Level II <ul style="list-style-type: none"> Mastercard 	String (2)

Table 16 Order-Level Fields for FDMS South (Continued)

CyberSource Field Name	Description	Used By (Required/Optional)	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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>If the postal code for the shipping address is not included in the request message, CyberSource uses the postal code for the billing address. If 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>Level II</p> <ul style="list-style-type: none"> ■ Mastercard (Required for purchase/procurement cards; otherwise, optional) 	String (10)
summary_commodity_code	Categorizes purchases for VAT reporting.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa 	String (4)
tax_indicator	<p>Flag that indicates whether an order is taxable. Possible values:</p> <ul style="list-style-type: none"> ■ Y: the order is taxable. ■ N: the order is not taxable. 	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa ■ Mastercard 	String (1)
user_po	<p>Value used by your customer to identify the order. This value is typically a purchase order number. CyberSource recommends that you do not populate the field with all zeros or nines.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise) ■ Mastercard (Required for purchase/procurement cards; optional otherwise) 	String (25)

Offer-Level Fields

Table 17 Offer-Level Fields for FDMS South

CyberSource Field Name	Description	Used By (Required/Optional)	Data Type & Length
amount	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (15)
invoice_number	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
national_tax	Amount of national tax or value added tax for countries in which more than one tax is applied. Provide this value if national_tax differs from tax_amount . If you do not provide this value, CyberSource assumes that national_tax is equal to tax_amount .	Level II <ul style="list-style-type: none"> ■ Visa ■ Mastercard 	Decimal (15)
tax_amount	Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines: <pre>offer0=amount:10.00^quantity:1 ^tax_amount:0.80</pre> <pre>offer1=amount:20.00^quantity:1 ^tax_amount:1.60</pre> the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency. If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API .	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (15)
vat_rate	Rate used to calculate VAT. If you do not provide this value, CyberSource calculates the rate as (national_tax x 100 / amount).	Level II <ul style="list-style-type: none"> ■ Visa ■ Mastercard 	Decimal (5)

GPN: Level II and Level III

Transaction Requirements



Important

When you send a capture or credit request with Level II or Level III data or both, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Processor Specification

The specification that CyberSource used to implement Level II and Level III processing for GPN is the *Global Payments Big Batch Message Specification, Version 2006.001*, January 2006.

Order-Level Fields

Table 18 Order-Level Fields for GPN

CyberSource Field Name	GPN Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	Other Tax	Total amount of alternate tax for the order. Maximum amount is 99,999.99.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (12)
duty_amount	Duty Amount	Total charges for any import or export duties included in the order. Maximum amount is 99,999.99.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
freight_amount	Freight Amount	Total freight or shipping and handling charges for the order. Maximum amount is 99,999.99. When you include this field in your request, you must also include grand_total_amount .	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
merchant_vat_registration_number	Merchant VAT Number	Your government-assigned tax identification number.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (20)
national_tax	National Tax	National tax for the order. Maximum amount is 99,999.99.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (12)
order_discount_amount	Discount Amount	Total discount applied to the order. For example: a 20.00 discount off the order total. Maximum amount is 99,999.99. This field might be required for Level III processing depending on your merchant category code. Check with your processor.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
purchaser_order_date	Order Date	Date the order was processed. Format: YYMMDD.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (6)
purchaser_vat_registration_number	Customer VAT Number	Customer's government-assigned tax identification number.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Visa: String (15) Mastercard: String (20)
purchasing_level	No corresponding GPN field	Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See " Requesting Captures and Credits with Level III Data ," page 16.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)

Table 18 Order-Level Fields for GPN (Continued)

CyberSource Field Name	GPN Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_from_zip	Ship From Postal/Zip Code	<p>Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits.</p> <p>If 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>If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric]</p> <p>Example A1B 2C4</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (10)
ship_to_country	Destination Country Code	<p>Country of the shipping address. Use the two-character <i>ISO Standard Country Codes</i>.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (2)
ship_to_state	Destination State/Province Code	<p>State or province of the shipping address. Use the <i>State, Province, and Territory Codes for the United States and Canada</i>.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (2)

Table 18 Order-Level Fields for GPN (Continued)

CyberSource Field Name	GPN Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	Destination Postal/Zip Code	<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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (10)
summary_commodity_code	Summary Commodity Code and Commodity Code	<p>International description code of the overall order's goods or services. Contact your acquirer or GPN for a list of codes.</p> <p>This field might be required for Level III processing depending on your merchant category code. Check with your processor.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (4)
supplier_order_reference	Item Description	Text description of the item.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (25)
user_po	Market Data - "m" Customer Code and Reference Number	Value used by your customer to identify the order. This value is typically a purchase order number.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	<p>Visa: String (17)</p> <p>Mastercard: String (25)</p>
vat_tax_amount	VAT/Tax Amount (Freight/Shipping)	Tax amount applied to freight / shipping costs.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (12)

Table 18 Order-Level Fields for GPN (Continued)

CyberSource Field Name	GPN Field Name	Description	Used By (Required/Optional)	Data Type & Length
vat_tax_rate	VAT/Tax Rate (Freight/Shipping)	Tax rate applied to freight / shipping costs. Example 0.040 (=4%)	Level III ■ Visa (O)	Decimal (4)

Offer-Level Fields

Table 19 Offer-Level Fields for GPN

CyberSource Field Name	GPN Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_rate	Tax Rate N	Tax rate applied to the item.	Level III ■ Visa (O) ■ Mastercard (O)	Decimal (5)
amount	Unit Price	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Maximum amount is 99,999.99. Important For a Level III transaction, this value cannot be zero (0). Note For each offer line that you include in a request, you must include an amount field.	Level II ■ Visa (O) ■ Mastercard (O) Level III ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange)	Decimal (10)
commodity_code	Item Commodity Code	International description code used to classify the item. Contact your acquirer or GPN for a list of codes. This field might be required for all Level III processing depending on your merchant category code. Check with your processor.	Level III ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange)	Visa: String (12) Mastercard: String (15)

Table 19 Offer-Level Fields for GPN (Continued)

CyberSource Field Name	GPN Field Name	Description	Used By (Required/Optional)	Data Type & Length
discount_amount	Item Discount	Discount applied to the item. Maximum amount is 99,999.99. This field might be required for all Level III processing depending on your merchant category code. Check with your processor.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange) 	Decimal (12)
discount_rate	Item Discount Rate	Rate the item is discounted. Example 5.25 (=5.25%)	Level III <ul style="list-style-type: none"> ■ Mastercard (Required for Level III interchange) 	Decimal (5)
invoice_number	No corresponding GPN field	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
product_code	Product Code	Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is default. See Appendix C, "Product Codes," on page 152 for a list of valid values. For ics_auth , when you set this field to a value other than default or any of the values related to shipping and handling, the quantity , product_name , and merchant_product_sku fields are required.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange) 	Visa: String (12) Mastercard: String (15)

Table 19 Offer-Level Fields for GPN (Continued)

CyberSource Field Name	GPN Field Name	Description	Used By (Required/Optional)	Data Type & Length
quantity	Item Quantity	Number of units of the item purchased. Must be a whole number. If you do not provide this value, CyberSource uses 1.	Level III <ul style="list-style-type: none"> ■ Visa (Required for Level III interchange) ■ Mastercard (Required for Level III interchange) 	Integer (12)
tax_amount	Level II: Amount 2 Level III: Tax Amount N	<p>Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines:</p> <pre>offer0=:amount10.00^ quantity:1^tax_amount: 0.80 offer1=amount:20.00^ quantity:1^tax_amount: 1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>Maximum amount is 99,999.99.</p> <p>For Level II, if you do not include this field in your request, CyberSource sets this field to the default value of 0.</p> <p>For Level II, this value is the sales tax. For Visa Level II transactions, this value must be zero or must be between 0.1% and 22% of the total sale.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	<p>Level II: Decimal (10)</p> <p>Level III: Decimal (12)</p>

Table 19 Offer-Level Fields for GPN (Continued)

CyberSource Field Name	GPN Field Name	Description	Used By (Required/ Optional)	Data Type & Length
unit_of_measure	Unit of Measure	Unit of measure for the item.	Level III <ul style="list-style-type: none"> <li>■ Visa (Required for Level III interchange) <li>■ Mastercard (Required for Level III interchange) 	String (12)

OmniPay Direct: Level II and Level III

Transaction Requirements



Important

When you send a capture request with Level II or Level III data or both, you must include the required fields for every capture request. For information about the non-Level-II and non-Level-III fields required for capture requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



Important

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Supported Acquirers

On OmniPay Direct, the acquirers that support Level II and Level III data are:

- Bank of America Merchant Services
- Cardnet International
- First Data Merchant Solutions (Europe)

Processor Specification

The specification that CyberSource used to implement Level II and Level III processing for OmniPay Direct is *OmniPay 80Byte Electronic File Specifications, version 4.9*, September 2015.

Order-Level Fields

Table 20 Order-Level Fields for OmniPay Direct

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
duty_amount	Duty Amount	Total charges for any import or export duties included in the order.	Level II <ul style="list-style-type: none"> ■ Visa (O) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (12)
freight_amount	Freight Amount / Shipping Amount	Total freight or shipping and handling charges for the order. For a Level II transaction with Visa, CyberSource sets the value for this field to zero (0) when you do not include it in the request.	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (O) 	Decimal (12)
grand_total_amount	Line Item Total	Grand total for the entire request.	Level II <ul style="list-style-type: none"> ■ Visa (R for interchange rates) 	Decimal (12)
local_tax_indicator	Local Tax Included	Flag that indicates whether local sales tax is included in the order total. Possible values: <ul style="list-style-type: none"> ■ 0: local sales tax not included ■ 1: local sales tax included ■ 2: tax exempt order 	Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (1)

Table 20 Order-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
merchant_vat_registration_number	Merchant VAT Registration / Single Business Reference Number / Merchant Tax ID / Corporation VAT Number	Your government-assigned tax identification number.	Level II <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	String (21)
national_tax	National Tax	National tax for the order. When you include this field in the request, you must also include the tax_amount field in the request.	Level II <ul style="list-style-type: none"> ■ Visa (R for interchange rates) Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) 	String (12)
national_tax_indicator	National Tax Included	Flag that indicates whether a national tax is included in the order total. Possible values: <ul style="list-style-type: none"> ■ 0: national tax not included ■ 1: national tax included 	Level II <ul style="list-style-type: none"> ■ Visa (R for interchange rates) Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) 	String (1)
order_discount_amount	Discount Amount / Total Discount	Total discount applied to the order.	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R) 	Decimal (12)

Table 20 Order-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
purchaser_order_date	Order Date	Date the order was processed. Format: YYMMDD.	Level II <ul style="list-style-type: none"> ■ Visa (O) Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (6)
purchaser_vat_registration_number	Customer VAT Registration Number	Customer's government-assigned tax identification number.	Level II <ul style="list-style-type: none"> ■ Visa (O) Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (13)
purchasing_level	No corresponding OmniPay Direct field	Flag that indicates the capture request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (1)
ship_from_zip	Ship From Postal / ZIP Code	Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits. When the goods ship from the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 When the goods ships from Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric] Example A1B 2C3	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (10)
ship_to_country	Destination Country Code	Country of the shipping address. Use the two-character ISO Standard Country Codes .	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (3)

Table 20 Order-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	Destination Postal / ZIP Code	<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>This value is the same as the value for the shipFrom_postalCode field when your customer takes possession of the items at your location. The postal code must consist of 5 to 9 digits.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (O) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (10)
summary_commodity_code	Summary Commodity Code	<p>International description code of the overall order's goods or services. Contact your acquirer for a list of codes.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (R for interchange rates) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R for interchange rates) 	String (4)

Table 20 Order-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
supplier_order_reference	Purchase Identifier / Merchant Related Data / Merchant Reference Number	Text description of the item.	Level II <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	Visa: String (25) Mastercard: String (17)
tax_indicator	Detail Tax Amount Indicator	Flag that indicates whether tax is included in the total purchase amount. Possible values: <ul style="list-style-type: none"> ■ Y: tax is included in total purchase amount and tax is sum of values for all tax_amount fields. ■ N: tax is not included in total purchase amount. 	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)
total_tax_amount	Tax Amount / Total Tax Amount	Total tax amount for all the items in the order.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R for interchange rates) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R for interchange rates) 	Decimal (12)

Table 20 Order-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
user_po	Customer Code / Customer Reference ID	Value used by your customer to identify the order. This value is typically a purchase order number.	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	Visa: String (17) Mastercard: String (25)
vat_tax_amount	VAT (Amount)	Total amount of VAT or other tax included in the order.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (12)
vat_tax_rate	VAT (Rate)	Rate of VAT or other tax for the order. Example 0.04 (=4%) Valid range: 0.01 to 0.99 (1% to 99%)	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) 	Decimal (4)

Offer-Level Fields

Table 21 Offer-Level Fields for OmniPay Direct

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	VAT / Tax Amount (Freight or Shipping)	Tax amount on shipping/freight.	Level II <ul style="list-style-type: none"> ■ Visa (O) Level III <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (12)

Table 21 Offer-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_rate	VAT / Tax Rate (Freight or Shipping)	Rate used to generate the value for the alternate_tax_amount field. When you include the alternate_tax_amount and national_tax fields and do not include the alternate_tax_rate field, CyberSource calculates the rate as national_tax x 100 / amount .	Level II <ul style="list-style-type: none"> ■ Visa (R for interchange rates) Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) 	String (4)
amount	Unit Cost / Unit Price	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Important For a Level III transaction, this value cannot be zero (0).	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	Decimal (12)
commodity_code	Item Commodity Code	International description code used to classify the item. Contact your acquirer for a list of codes.	Level II <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (O) Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Visa: String (12) Mastercard: String (4)
discount_amount	Discount Per Line Item / Discount Amount	Discount applied to the item.	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	String (12)

Table 21 Offer-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
discount_indicator	Discount Indicator	Flag that indicates whether the amount is discounted. Possible values: <ul style="list-style-type: none"> ■ Y: amount is discounted ■ N: amount is not discounted 	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)
discount_rate	Item Discount Rate	Rate at which the item is discounted. Example 0.050 (=5%) Valid range: 0.010 to 0.999 (1% to 99.9%)	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (5)
product_code	Product Code	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> . See Appendix C, "Product Codes," on page 152 for a list of valid values. For <code>ics_auth</code> , when you set this field to a value other than <code>default</code> or any of the values related to shipping and handling, the <code>quantity</code> , <code>product_name</code> , and <code>merchant_product_sku</code> fields are required.	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (12)
product_name	Item Description	Text description of the item.	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	String (26)
quantity	Quantity / Item Quantity	Number of units of the item purchased. Must be a whole number. If you do not provide this value, CyberSource uses 1.	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	Visa: Integer (4) Mastercard: Integer (12)

Table 21 Offer-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_amount	Tax Amount / Total Tax Amount	<p>Total tax to apply to the product. This value cannot be negative. The tax amount and the offer amount must be in the same currency.</p> <p>The tax amount field is additive. The following example uses a two-exponent currency such as USD:</p> <ol style="list-style-type: none"> You include the following offer lines in your request: <pre>offer0=amount:10.00^ quantity:1^tax_ amount:0.80 offer1=amount:20.00^ quantity:1^tax_ amount:1.60</pre> The total amount authorized will be 32.40, not 30.00 with 2.40 of tax included. <p>If you want to include the tax amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (R if national_tax is included) ■ Mastercard (R for interchange rates) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R if national_tax is included) ■ Mastercard (R for interchange rates) 	Decimal (13)
tax_rate	Tax Rate / Detail Tax Rate	<p>Tax rate applied to the item.</p> <p>Example 0.08 (=8%)</p> <p>Valid range: 0.01 to 0.99 (1% to 99%)</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (R for interchange rates) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R for interchange rates) ■ Mastercard (R for interchange rates) 	Decimal (4)

Table 21 Offer-Level Fields for OmniPay Direct (Continued)

CyberSource Field Name	OmniPay Direct Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_status_indicator	Tax Collected Indicator	Flag that indicates whether sales tax is included in the value for the total_amount field. Possible values: <ul style="list-style-type: none"> ■ Y: sales tax is included; total_amount value must be greater than zero. ■ N: sales tax is not included; total_amount value must be zero. 	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)
total_amount	Line Item Total / Extended Item Amount	Total purchase amount for the item. Normally calculated as the unit price * quantity.	Level II <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal(12)
unit_of_measure	Unit of Measure Code / Item Unit of Measure	Unit of measure, or unit of measure code, for the item. See Appendix A, "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (R for interchange rates) 	String (12)

Examples

Example 2 Level II Capture Request for Visa

```

auth_request_id=4756679462096005301540
ics_applications=ics_bill
merchant_id=test_merchant
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
merchant_vat_registration_number=GB-123445555
summary_commodity_code=SUMM
supplier_order_reference=456456346
currency=USD
freight_amount=0.00
grand_total_amount=9.95
offer0=tax_amount:1.00^national_tax:0.01^amount:1.99^total_amount:9.95^
quantity:5^alternate_tax_rate:0.01^tax_rate:0.05
commodity_code=2222
user_po=12345

```

Example 3 Level II Capture Reply for Visa

```

request_id=4738626380736000501540
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
bill_bill_amount=9.95
bill_rcode=1
bill_rflag=SOK
bill_rmsg=Request was processed successfully.
bill_trans_ref_no=02850840187309570
currency=USD
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.

```

Example 4 Level III Capture Request for Visa

```

auth_request_id=4756679462096005301540
ics_applications=ics_bill
merchant_id=test_merchant
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
merchant_vat_registration_number=GB-123445555
summary_commodity_code=1234
supplier_order_reference=456456346
user_po=12345
currency=USD
offer0=tax_amount:0.01^national_tax:0.01^amount:1.99^total_amount:9.95^
quantity:5^product_name:ABC Shirt - blue^tax_rate:0.05^
discount_amount:0.10^unit_of_measure:EAC^alternate_tax_rate:0.05
order_discount_amount=0.01
grand_total_amount=9.95
vat_tax_rate=0.08
freight_amount=0.00
national_tax_indicator=1
purchasing_level=3

```

Example 5 Level III Capture Reply for Visa

```

request_id=4738626380736000501540
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
bill_bill_amount=9.95
bill_purchasing_level3_enabled=Y
bill_rcode=1
bill_rflag=SOK
bill_rmsg=Request was processed successfully.
bill_trans_ref_no=02850840187309570
currency=USD
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.

```

Example 6 Level II Capture Request for Mastercard

```

auth_request_id=4756679462096005301540
ics_applications=ics_bill
merchant_id=test_merchant
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
supplier_order_reference=482046C3A7E94
merchant_vat_registration_number=GB-123445555
currency=USD
grand_total_amount=9.95
offer0=tax_amount:1.00^amount:1.99^total_amount:9.95^quantity:5
user_po=12345

```

Example 7 Level II Capture Reply for Mastercard

```
request_id=4738626380736000501540
merchant_ref_number=482046C3A7E94
bill_bill_amount=9.95
bill_rcode=1
bill_rflag=SOK
bill_rmsg=Request was processed successfully.
bill_trans_ref_no=02850840187309570
currency=USD
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
```

Example 8 Level III Capture Request for Mastercard

```
auth_request_id=4756679462096005301540
ics_applications=ics_bill
merchant_id=test_merchant
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
merchant_vat_registration_number=GB-123445555
supplier_order_reference=482046C3A7E94
offer0=tax_amount:1.00^amount:1.99^total_amount:9.95^quantity:5^
product_name:ABC Shirt - blue^tax_rate:0.05^discount_amount:0.10^
unit_of_measure:EAC
currency=USD
grand_total_amount=9.95
user_po=12345
purchasing_level=3
```

Example 9 Level III Capture Reply for Mastercard

```
request_id=4738626380736000501540
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
bill_bill_amount=9.95
bill_purchasing_level3_enabled=Y
bill_rcode=1
bill_rflag=SOK
bill_rmsg=Request was processed successfully.
bill_trans_ref_no=02850840187309570
currency=USD
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
```

RBS WorldPay Atlanta: Level II and Level III

Transaction Requirements



When you send a capture request with Level II and Level III data, you must include the required fields for every capture request. For credit requests, RBS WorldPay Atlanta does not require you to indicate the request is for Level II or Level III processing. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Processor Specification

The specification that CyberSource used to implement Level III processing for RBS WorldPay Atlanta is *RBS Worldpay API message specification, version 7.1.0, June 2, 2009*.

Order-Level Fields

Table 22 Order-Level Fields for RBS WorldPay Atlanta

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	VAT Tax Amount	Total amount of alternate tax included in the order. Amount cannot be greater than 999999.99.	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	Numeric (8)
alternate_tax_amount_indicator	Alternate Tax Indicator	Flag that indicates whether the alternate tax amount is included in the request. Possible values: <ul style="list-style-type: none"> ■ 0: alternate tax amount is not included in the request. ■ 1: alternate tax amount is included in the request. 	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)
duty_amount	Duty Amount	Total charges for any import or export duties included in the order.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Numeric (8)
freight_amount	Freight Amount	Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include grand_total_amount .	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Numeric (8)
grand_total_amount	Amount	Grand total for the entire capture or credit request.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (15)
merchant_vat_registration_number	Merchant VAT Number	Your government-assigned tax identification number.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (20)
order_discount_amount	Discount Amount	Total discount applied to the order. For example: a 20.00 discount off the order total. Discount amount cannot be greater than 999999.99.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	Numeric (8)
purchaser_order_date	Order Date	Date the order was processed. Format: YYMMDD.	Level III <ul style="list-style-type: none"> ■ Visa (R) 	Numeric (6)
purchaser_vat_registration_number	Customer VAT Number	Customer's government-assigned tax identification number.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (13)

Table 22 Order-Level Fields for RBS WorldPay Atlanta (Continued)

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
purchasing_level	No corresponding RBS WorldPay Atlanta field	Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (1)
ship_from_zip	Origin Zip	Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits. If the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric] Example A1B 2C4	Level III <ul style="list-style-type: none"> ■ Visa (Recommended) ■ Mastercard (Recommended) 	String (10)
ship_to_country	Destination Country Code	Country of the shipping address. Use the two-character ISO Standard Country Codes . If you do not provide this value, CyberSource uses the bill_to_country value. If you do not provide either of these values, CyberSource uses the default value of US.	Level III <ul style="list-style-type: none"> ■ Visa (Recommended for best rate) ■ Mastercard (R) 	String (3)

Table 22 Order-Level Fields for RBS WorldPay Atlanta (Continued)

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	Destination 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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>If the postal code for the shipping address is not included in the request message, CyberSource uses the postal code for the billing address. If 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>Level III</p> <ul style="list-style-type: none"> ■ Visa (Recommended for best rate) ■ Mastercard (Recommended for best rate. Do not use all zeros or nines.) 	String (10)
summary_commodity_code	Commodity Code	<p>International description code of the overall order's goods or services. Contact your acquirer for a list of codes.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	String (4)
tax_indicator	Tax Exempt	<p>Flag that indicates whether an order is taxable. Possible values:</p> <ul style="list-style-type: none"> ■ Y: the order is taxable. ■ N: the order is not taxable. <p>Note This field is required for Visa and Mastercard transactions that involve Level II data. If tax_amount equals 0, set this field to N. If tax_amount is greater than 0, set this field to Y.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)

Table 22 Order-Level Fields for RBS WorldPay Atlanta (Continued)

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
user_po	PC2 Customer ID	Value used by your customer to identify the order. This value is typically a purchase order number.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) ■ Mastercard (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) ■ Mastercard (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) 	String (25)
vat_invoice_ref_number	VAT Invoice Number	VAT invoice number associated with the transaction.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	String (15)

Table 22 Order-Level Fields for RBS WorldPay Atlanta (Continued)

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
vat_tax_amount	VAT Tax Amount	Total amount of VAT or other tax included in the order. Amount cannot be greater than 999999.99.	Level III ■ Visa (O)	Numeric (8)
vat_tax_rate	Tax Rate	Rate of VAT or other tax for the order. Example 0.0400 (=4%) Valid range: 0.0001 to 0.9999 (0.01% to 99.99%)	Level III ■ Visa (O)	Numeric (4)

Offer-Level Fields

Table 23 Offer-Level Fields for RBS WorldPay Atlanta

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_id	Alternate Tax ID	Your tax ID number to use for the alternate tax amount. You must provide this value if you include Alternate Tax Amount in the request. Providing this value is optional if you do not Alternate Tax Amount.	Level III ■ Mastercard (See description)	String (15)
amount	Unit Cost	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Important For a Level III transaction, this value cannot be zero (0).	Level II ■ Visa (R) ■ Mastercard (R) Level III ■ Visa (R) ■ Mastercard (R)	Visa: Numeric (10) Mastercard: Numeric (8)
commodity_code	Commodity Code	International description code used to classify the item. Contact your acquirer for a list of codes.	Level III ■ Visa (R)	String (12)

Table 23 Offer-Level Fields for RBS WorldPay Atlanta (Continued)

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
discount_amount	Discount Amount	Discount applied to the item.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Numeric (8)
discount_rate	Discount Rate	Rate the item is discounted. Example 5.25 (=5.25%) Maximum amount is 99.99.	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	Numeric (5)
gross_net_indicator	Gross Net Indicator	Flag that indicates whether the tax amount is included in the Line Item Total. Possible values: <ul style="list-style-type: none"> ■ Y: item amount includes tax amount ■ N: item amount does not include tax amount 	Level III <ul style="list-style-type: none"> ■ Mastercard (R) 	String (1)
invoice_number	No corresponding RBS WorldPay Atlanta field	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
product_code	Product Code	Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is <code>default</code> . See Appendix C, "Product Codes," on page 152 for a list of valid values. For <code>ics_auth</code> , when you set this field to a value other than <code>default</code> or any of the values related to shipping and handling, the <code>quantity</code> , <code>product_name</code> , and <code>merchant_product_sku</code> fields are required.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (12)

Table 23 Offer-Level Fields for RBS WorldPay Atlanta (Continued)

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
product_name	Description	Text description of the item.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R. Do not use all zeros or spaces.) 	String (35)
quantity	Quantity	The quantity of the items purchased. Cannot be more than 999999.99.	Level III <ul style="list-style-type: none"> ■ Visa (Recommended for best rate) ■ Mastercard (Recommended for best rate) 	Visa: Numeric (10) Mastercard: Numeric (8)
tax_amount	Tax Amount	<p>Total tax to apply to the product. This value cannot be negative. If no tax is present, you can send in a value of 0.</p> <p>The tax_amount field is additive. For example, if you include the following offer lines:</p> <pre>offer0=amount:10.00^ quantity:1^tax_amount: 0.80 offer1=amount:20.00^ quantity:1^tax_amount: 1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p>	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Numeric (8)
tax_rate	Tax Rate	Tax rate applied to the item. <p>Valid range is 0.0001 to 0.9999 (0.01% to 99.99%). The value can also be zero.</p>	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Numeric (4)

Table 23 Offer-Level Fields for RBS WorldPay Atlanta (Continued)

CyberSource Field Name	RBS WorldPay Atlanta Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_type_applied	Tax Type	Type of tax being applied to the item. Possible values: <ul style="list-style-type: none"> ■ 0000: unknown tax type ■ 0001: federal/national sales tax ■ 0002: state sales tax ■ 0003: city sales tax ■ 0004: local sales tax ■ 0005: municipal sales tax ■ 0006: other tax ■ 0010: value-added tax ■ 0011: goods and services tax ■ 0012: provincial sales tax ■ 0013: harmonized sales tax ■ 0014: Quebec sales tax (QST) ■ 0020: room tax ■ 0021: occupancy tax ■ 0022: energy tax Blank: Tax not supported on line item.	Level III <ul style="list-style-type: none"> ■ Mastercard (R) 	Numeric (4)
total_amount	Line Total	Total purchase amount for the item. Normally calculated as the unit price x quantity.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R. Do not use all zeros or spaces.) 	Numeric (8)
unit_of_measure	Unit Of Measure	Unit of measure, or unit of measure code, for the item. See Appendix A, "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (12)

TSYS Acquiring Solutions: Level II and Level III



CyberSource does not support Level II processing for the American Express card type on TSYS Acquiring Solutions.

Transaction Requirements



When you send a capture or credit request with Level II or Level III data or both, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates



This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Processor Specification

The specification that CyberSource used to implement Level III processing for TSYS Acquiring Solutions (Vital) is *Vital's EIS 1081, Level III Line Item Processing, version 6.4*, April 2004.

The records referenced are:

- Transaction Detail Record — Optional Data; Groups 25, 26, and 27
- Visa Card Non-T&E and Fleet (Non-fuel) Line Item Detail Record
- Mastercard Non-T&E and Fleet (Non-fuel) Line Item Detail Record

Order-Level Fields

Table 24 Order-Level Fields for TSYS Acquiring Solutions

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	Alternate Tax Amount	Total amount of alternate tax for the order.	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	Decimal (10)
alternate_tax_amount_indicator	Alternate Tax Amount Indicator	Flag that indicates whether an alternate tax amount is included in the order total. Possible values: <ul style="list-style-type: none"> ■ 1: alternate tax is included ■ 0: alternate tax not included 	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)
duty_amount	Duty Amount	Total charges for any import or export duties included in the order.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (13)
freight_amount	Freight Amount	Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include grand_total_amount .	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (13)
grand_total_amount	No corresponding TSYS Acquiring Solutions field	Grand total for the entire capture or credit request.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (15)
local_tax	Local Tax	Sales tax for the order.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (13)

Table 24 Order-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
local_tax_indicator	Local Tax Included Flag	<p>Flag that indicates whether local sales tax is included in the order total.</p> <p>Possible values:</p> <ul style="list-style-type: none"> ■ 0: local sales tax not included ■ 1: local sales tax included ■ 2: tax exempt order <p>If you do not provide this value, CyberSource sets this field to one of the following values:</p> <ul style="list-style-type: none"> ■ 0 if you set Local Tax = 0 or do not provide a Local Tax ■ 1 if you set Local Tax > 0 <p>Important For GSA (General Services Administration) purchasing cards, tax is required in order to qualify for Level III when processing with TSYS Acquiring Solutions. Therefore, the only valid Level III value for this field for GSA cards is 1. If you have any questions or concerns, please contact your acquirer.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)
merchant_vat_registration_number	Merchant VAT Registration Number	Your government-assigned tax identification number.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	String (20)
national_tax	National Tax Amount	National tax for the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	Decimal (13)
national_tax_indicator	National Tax Included Flag	<p>Flag that indicates whether a national tax is included in the order total.</p> <p>Possible values:</p> <ul style="list-style-type: none"> ■ 0: national tax not included ■ 1: national tax included <p>If you do not provide this value, CyberSource sets this field to 1 if you provide a National Tax Amount greater than 0.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (1)
order_discount_amount	Discount Amount	Total discount applied to the order. For example: a 20.00 discount off the order total.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (13)

Table 24 Order-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
purchaser_order_date	Order Date	Date the order was processed. Format: YYMMDD.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (6)
purchaser_vat_registration_number	Customer VAT Registration Number	Customer's government-assigned tax identification number.	Level III <ul style="list-style-type: none"> ■ Visa (O) 	String (13)
purchasing_level	No corresponding TSYS Acquiring Solutions field	Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (1)
ship_from_zip	Ship From Postal/ZIP Code	Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. The postal code must consist of 5 to 9 digits. If the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric] Example A1B 2C4	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (Recommended for best rate. Do not use all zeros or nines.) 	String (10)
ship_to_country	Destination Country Code	Country of the shipping address. Use the two-character ISO Standard Country Codes .	Level III <ul style="list-style-type: none"> ■ Visa (Recommended for best rate) ■ Mastercard (Optional but recommended) 	String (2)
ship_to_state	No corresponding TSYS Acquiring Solutions field	State or province of the shipping address. Use the State, Province, and Territory Codes for the United States and Canada .	If any shipping information is in the request, this field is required for CyberSource front-end processing.	String (2)

Table 24 Order-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	Destination Postal/ZIP Code	<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>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Recommended for best rate) ■ Mastercard (Recommended for best rate. Do not use all zeros or nines.) 	String (10)
summary_commodity_code	Summary Commodity Code	<p>International description code of the overall order's goods or services. Contact your acquirer for a list of codes.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) 	String (4)

Table 24 Order-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
user_po	No corresponding TSYS Acquiring Solutions field	Value used by your customer to identify the order. This value is typically a purchase order number.	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) ■ Mastercard (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) ■ Mastercard (Required for purchase/procurement cards; optional otherwise. Do not use all zeros or nines.) 	String (25)
vat_invoice_ref_number	Unique VAT Invoice Reference Number	VAT invoice number associated with the transaction.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	String (15)
vat_tax_amount	VAT/Tax Amount	Total amount of VAT or other tax included in the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) 	Decimal (13)

Table 24 Order-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
vat_tax_rate	VAT/Tax Rate	Rate of VAT or other tax for the order. Example 0.0400 (=4%) Valid range: 0.0001 to 0.9999 (0.01% to 99.99%)	Level III ■ Visa (O)	Decimal (6)

Offer-Level Fields

Table 25 Offer-Level Fields for TSYS Acquiring Solutions

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_id	Alternate Tax Identifier	Your tax ID number to use for the alternate tax amount. You must provide this value if you include Alternate Tax Amount in the request. Providing this value is optional if you do not Alternate Tax Amount.	Level III ■ Mastercard (See description)	String (15)
amount	Unit Cost	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Important For a Level III transaction, this value cannot be zero (0).	Level II ■ Visa (R) ■ Mastercard (R) Level III ■ Visa (R) ■ Mastercard (R)	Decimal (11)
commodity_code	Item Commodity Code	International description code used to classify the item. Contact your acquirer for a list of codes.	Level III ■ Visa (R)	String (12)
discount_amount	Visa: Discount Per Line Item Mastercard: Discount Amount	Discount applied to the item.	Level III ■ Visa (O) ■ Mastercard (O)	Decimal (13)

Table 25 Offer-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
discount_indicator	Discount Indicator	Flag that indicates whether the amount is discounted. Possible values: <ul style="list-style-type: none"> ■ Y: amount is discounted ■ N: amount is not discounted <p>If you do not provide this value but you set Discount Amount to a value greater than zero, CyberSource sets this field to Y.</p>	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (1)
discount_rate	Item Discount Rate	Rate the item is discounted. Example 5.25 (=5.25%)	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (6)
gross_net_indicator	Net/Gross Indicator	Flag that indicates whether the tax amount is included in the Line Item Total. Possible values: <ul style="list-style-type: none"> ■ Y: item amount includes tax amount ■ N: item amount does not include tax amount 	Level III <ul style="list-style-type: none"> ■ Mastercard (R) 	String (1)
invoice_number	No corresponding TSYS Acquiring Solutions field	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
product_code	Product Code	Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is default. See Appendix C, "Product Codes," on page 152 for a list of valid values. For ics_auth , when you set this field to a value other than default or any of the values related to shipping and handling, the quantity , product_name , and merchant_product_sku fields are required.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (Recommended for best rate. Do not use all zeros or spaces.) 	String (12)

Table 25 Offer-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
product_name	Visa: Item Descriptor Mastercard: Item Description	Text description of the item.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R. Do not use all zeros or spaces.) 	String (35)
quantity	Visa: Quantity Mastercard: Item Quantity	Number of units of the item purchased. Must be a whole number. If you do not provide this value, CyberSource uses 1.	Level III <ul style="list-style-type: none"> ■ Visa (Recommended for best rate) ■ Mastercard (Recommended for best rate. Do not use all zeros or spaces.) 	Integer (12)
tax_amount	Visa: VAT/Tax Amount Mastercard: Tax Amount	<p>Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines:</p> <pre>offer0=amount:10.00^ quantity:1^tax_: 0.80 offer1=amount:20.00^ quantity:1^tax_: 1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p>	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (13)
tax_rate	Visa: VAT/Tax Rate Mastercard: Tax Rate Applied	<p>Tax rate applied to the item.</p> <p>Valid range is 0.0001 to 0.9999 (0.01% to 99.99%). The value can also be zero.</p>	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R) 	Decimal (6)

Table 25 Offer-Level Fields for TSYS Acquiring Solutions (Continued)

CyberSource Field Name	TSYS Acquiring Solutions Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_type_applied	Tax Type Applied	Type of tax being applied to the item.	Level III <ul style="list-style-type: none"> ■ Mastercard (O) 	String (4)
total_amount	Visa: Line Item Total Mastercard: Extended Item Amount	Total purchase amount for the item. Normally calculated as the unit price x quantity.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R. Do not use all zeros or spaces.) 	Visa: Decimal (13) Mastercard: Decimal (10)
unit_of_measure	Visa: Unit of Measure/Code Mastercard: Item Unit of Measure	Unit of measure, or unit of measure code, for the item. See Appendix A, "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (R. Do not use all zeros or spaces.) 	String (12)

Worldpay VAP: Level II and Level III

**Note**

Worldpay VAP was previously called *Little*. Little was purchased by Vantiv, which was then purchased by Worldpay VAP. If you have any questions, contact your account manager at Worldpay VAP.

Transaction Requirements

**Important**

When you send a capture or credit request with Level II or Level III data or both, you must include the required fields for every capture or credit request. For information about the non-Level-II and non-Level-III fields required for capture and credit requests, see [Credit Card Services Using the SCMP API](#).

Interchange Rates

**Important**

To qualify for Level III interchange rates for Visa and Mastercard, you need to include at least one offer in your request.

**Important**

This document provides guidelines that indicate which fields are needed in order to obtain the best interchange rates. These guidelines are based on industry information. CyberSource recommends that you contact your acquirer for the most current information because the payment card companies can change their requirements at any time.

Order-Level Fields

Table 26 Order-Level Fields for Worldpay VAP

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
amexdata_taa1 amexdata_taa2 amexdata_taa3 amexdata_taa4	item Description	<p>Four transaction advice addendum fields. These fields are used to display descriptive information about a transaction on your customer's American Express card statement. If you are sending any TAA fields, start with amexdata_taa1, then ...taa2, and so on. Skipping a TAA field causes subsequent TAA fields to be ignored.</p> <p>Contact CyberSource Customer Support if you plan to use these fields so that your account can be configured appropriately.</p> <p>If you request a follow-on credit for an American Express Level II capture that included TAA data and if the TAA data is not included in the follow-on credit request, CyberSource uses the TAA data from the capture request.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ American Express (R) 	String (26)
duty_amount	dutyAmount	Total charges for any import or export duties included in the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	Decimal (8)
freight_amount	shipping Amount	Total freight or shipping and handling charges for the order. When you include this field in your request, you must also include grand_total_amount .	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	Decimal (8)
merchant_vat_registration_number	cardAcceptor TaxId	<p>Your government-assigned tax identification number.</p> <p>For Visa, Worldpay VAP uses the value in your Worldpay VAP account.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Not used) ■ Mastercard (O) 	String (20)
order_discount_amount	discount Amount	Total discount applied to the order.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	Decimal (8)
purchaser_order_date	orderDate	Date the order was processed. If this value is not included in the request, CyberSource uses today's date. Format: YYYY-MM-DD.	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (10)

Table 26 Order-Level Fields for Worldpay VAP (Continued)

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
purchasing_level	No corresponding Worldpay VAP field	Flag that indicates the capture or credit request includes Level III data. Set the value for this field to 3. See "Requesting Captures and Credits with Level III Data," page 16.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (1)
ship_from_zip	shipFrom PostalCode	Postal code for the address from which the goods are shipped, which is used to determine nexus. The default is the postal code associated with your CyberSource account. CyberSource recommends that this value not exceed 10 characters. If the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example 12345-6789 If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha] [space][numeric][alpha] [numeric] Example A1B 2C4	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (20)
ship_to_country	destination CountryCode	Country of the shipping address. Use the two-character ISO Standard Country Codes . If this value is not included in the request, CyberSource uses the bill_country value from the authorization request.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (3)

Table 26 Order-Level Fields for Worldpay VAP (Continued)

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
ship_to_zip	destination PostalCode	<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]</p> <p>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]</p> <p>Example A1B 2C3</p> <p>This value is the same as the value for ship_from_zip when your customer takes possession of the items at your location. CyberSource recommends that this value not exceed 10 characters.</p> <p>If this value is not included in the request, CyberSource uses the bill_zip value from the authorization request.</p>	<p>Level III</p> <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (20)
tax_indicator	taxExempt	<p>Flag that indicates whether the order is taxable.</p> <p>This value is:</p> <ul style="list-style-type: none"> ■ Required if the sum of all tax_amount values = 0. ■ Optional if the sum of all tax_amount values > 0. <p>Possible values:</p> <ul style="list-style-type: none"> ■ Y: the order is taxable. ■ N: the order is not taxable. 	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (See description) ■ Mastercard (See description) ■ American Express (See description) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (See description) ■ Mastercard (See description) 	String (1)

Table 26 Order-Level Fields for Worldpay VAP (Continued)

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
user_po	customer Reference	Value used by your customer to identify the order. This value is typically a purchase order number.	Level II <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) ■ American Express (R) Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	String (17)
vat_invoice_ref_number	invoice Reference Number	Invoice number associated with the transaction.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (15)

Offer-Level Fields

The maximum number of offers that you can include in a request is:

- American Express Level II: 4 offers
- Mastercard Level III: 99 offers
- Visa Level III: 99 offers

Table 27 Offer-Level Fields for Worldpay VAP

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_amount	taxAmount	Amount collected for a special type of tax.	Level III <ul style="list-style-type: none"> ■ Visa (Not used) ■ Mastercard (O) 	Decimal (8)
alternate_tax_id	cardAcceptor TaxId	Your tax ID number to use for the alternate tax amount.	Level III <ul style="list-style-type: none"> ■ Visa (Not used) ■ Mastercard (O) 	String (20)
alternate_tax_rate	taxRate	Tax rate for the special tax.	Level III <ul style="list-style-type: none"> ■ Visa (Not used) ■ Mastercard (O) 	Decimal (5)

Table 27 Offer-Level Fields for Worldpay VAP (Continued)

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
alternate_tax_type_identifier	taxType Identifier	Flag that indicates the type of tax collected for alternate_tax_amount . Possible values: <ul style="list-style-type: none"> ■ 00: unknown ■ 01: federal or national sales tax ■ 02: states sales tax ■ 03: city sales tax ■ 04: local sales tax ■ 05: municipal sales tax ■ 06: Other tax ■ 10: value-added tax (VAT) ■ 11: goods and services tax (GST) ■ 12: provincial sales tax ■ 13: harmonized sales tax ■ 14: Quebec sales tax ■ 20: room tax ■ 21: occupancy tax ■ 22: energy tax 	Level III <ul style="list-style-type: none"> ■ Visa (Not used) ■ Mastercard (O) 	String (2)
amount	unitCost	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places. Important For a Level III transaction, this value cannot be zero (0).	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	Decimal (12)
commodity_code	commodity Code	International description code used to classify the item. Contact your acquirer for a list of codes.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	String (12)
discount_amount	itemDiscount Amount	Discount applied to the item.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (O) 	Decimal (8)

Table 27 Offer-Level Fields for Worldpay VAP (Continued)

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
invoice_number	No corresponding Worldpay VAP field	Field to support an invoice number for a transaction. You must specify the number of offer lines that will include an invoice number. By default, the first offer line includes an invoice number field. The invoice number field can be included for up to 10 offer lines.	Level III <ul style="list-style-type: none"> ■ Visa (O) ■ Mastercard (O) 	String (23)
product_code	productCode	Product code for the item. In the United States, this may be a UPC code, part number, or product number.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (12)
product_name	item Description	Text description of the item.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (26)
quantity	quantity	Number of units of the item purchased. Must be a whole number.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (9)

Table 27 Offer-Level Fields for Worldpay VAP (Continued)

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
tax_amount	taxAmount	<p>Total tax to apply to the product. This value cannot be negative. The tax_amount field is additive. For example, if you include the following offer lines:</p> <pre>offer0=amount:10.00^ quantity:1^tax_amount: 0.80 offer1=amount:20.00^ quantity:1^tax_amount: 1.60</pre> <p>the total amount authorized will be for 32.40, not 30.00 with 2.40 of tax included. The tax_amount and the amount must be in the same currency.</p> <p>For Level II, if you do not include this field in your request, CyberSource sets this field to the default value of 0.</p> <p>If you want to include tax_amount and also request the ics_tax service, see Tax Calculation Service Using the SCMP API.</p>	<p>Level II</p> <ul style="list-style-type: none"> ■ Visa (Required for the best rate for corporate cards; required if tax_indicator = Y; otherwise, optional.) ■ Mastercard (Required for the best rate for corporate cards; required if tax_indicator = Y; otherwise, optional.) ■ American Express (Required for the best rate for corporate cards; required if tax_indicator = Y; otherwise, optional.) <p>Level III</p> <ul style="list-style-type: none"> ■ Visa (Required for the best rate for corporate cards; required if tax_indicator = Y; otherwise, optional.) ■ Mastercard (Required for the best rate for corporate cards; required if tax_indicator = Y; otherwise, optional.) 	Decimal (8)

Table 27 Offer-Level Fields for Worldpay VAP (Continued)

CyberSource Field Name	Worldpay VAP Field Name	Description	Used By (Required/Optional)	Data Type & Length
total_amount	lineItemTotal	Total purchase amount for the item. Normally calculated as the unit price x quantity.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	Decimal (8)
unit_of_measure	unitOfMeasure	Unit of measure, or unit of measure code, for the item. See Appendix A, "Codes for Units of Measurement," on page 143.	Level III <ul style="list-style-type: none"> ■ Visa (R) ■ Mastercard (R) 	String (12)

Codes for Units of Measurement

The following table lists the codes for units of measurement used in international trade.

Table 28 Codes for Units of Measurement

Value	Description
EA	Unknown unit of measure
ACR	Acre (4840 yd ²)
AMH	Ampere-hour (3.6 kC)
AMP	Ampere
ANN	Year
APZ	Ounce GB, US (31.10348 g) (tr oz.)
ARE	Are (100 m ²)
ASM	Alcoholic strength mass
ASV	Alcoholic strength by volume
ATM	Standard atmosphere (101325 Pa)
ATT	Technical atmosphere (98066.5 Pa)
BAR	Bar
BFT	Board foot
BG	Unknown unit of measure
BHP	Brake horsepower (745.7 W)
BHX	Hundred boxes
BIL	Billion Eur (trillion US)
BLD	Dry barrel (115.627 dm ³)
BLL	Barrel
BQL	Becquerel
BTU	British thermal unit (1.055 Kilojoules)
BUA	Bushel (35.2391 dm ³)
BUI	Bushel (36.36874 dm ³)
BX	Unknown unit of measure
C	Unknown unit of measure
CA	Unknown unit of measure

Table 28 Codes for Units of Measurement (Continued)

Value	Description
CCT	Carrying capacity in metric tons
CD	Unknown unit of measure
CDL	Candela
CEL	Celsius degrees
CEN	Hundred
CGM	Centigram
CKG	Coulomb per kg
CLF	Hundred leaves
CLT	Centiliter
CMK	Square centimeter
CMT	Centimeter
CNP	Hundred packs
CNT	Cental GB (45.359237 kg)
COU	Coulomb
CS	Unknown unit of measure
CTM	Metric carat (200 Mg = 2.10 ⁻⁴ kg)
CUR	Curie
CWA	Hundredweight US (45.3592 kg)
D	Unknown unit of measure
DAA	Decare
DAD	Ten days
DAY	Day
DEC	Decade (10 years)
DLT	Deciliter
DMK	Square decimeter
DMQ	Cubic decimeter
DMT	Decimeter
DPC	Dozen pieces
DPT	Displacement tonnage
DRA	Dram US (3.887935 g)
DRI	Dram GB (1.771745 g)
DRL	Dozen rolls
DRM	Drachm gm (3.887935 g)
DTH	Hectokilogram
DTN	Centner / Quintal, metric (100 kg) (decitonne)

Table 28 Codes for Units of Measurement (Continued)

Value	Description
DWT	Pennyweight GB, US (1.555174 g)
DZ	Unknown unit of measure
DZN	Dozen
DZP	Dozen packs
DZR	Dozen pairs
EA	Unknown unit of measure
EAC	Each
FAH	Fahrenheit degrees
FAR	Farad
FOT	Foot (.3048 m)
FT	Unknown unit of measure
FTK	Square foot
FTQ	Cubic foot
G	Unknown unit of measure
GAL	Unknown unit of measure
GBQ	Gigabequerel
GFI	Gram of fissile isotopes
GGR	Great gross (12 gross)
GIA	Gill (11.8294 cm ³)
GII	Gill (0.142065 dm ³)
GLD	Dry gallon (4.404884 dm ³)
GLI	Gallon (4.546092 dm ³)
GLL	Liquid gallon (3.78541 dm ³)
GRM	Gram
GRN	Grain GB, US (64.798910 mg)
GRO	Gross
GRT	Gross (Register) ton
GWH	Gigawatt-hour (1 Million kWh)
HAR	Hectare
HBA	Hectobar
HGM	Hectogram
HIU	Hundred international units
HLT	Hectoliter
HMQ	Million cubic meters
HMT	Hectometer

Table 28 Codes for Units of Measurement (Continued)

Value	Description
HPA	Hectoliter of pure alcohol
HTZ	Hertz
HUR	Hour
INH	Inch (25.4 mm)
INK	Square inch
INQ	Cubic inch
ITM	Item
JOU	Joule
KBA	Kilobar
KEL	Kelvin
KGM	Kilogram
KGS	Kilogram per second
KHZ	Kilohertz
KJO	Kilojoule
KMH	Kilometer per hour
KMK	Square kilometer
KMQ	Kilogram per cubic meter
KMT	Kilometer
KNI	Kilogram of nitrogen
KNS	Kilogram of named substance
KNT	Knot (1 nautical mile per hour)
KPA	Kilopascal
KPH	Kilogram of caustic potash (kilogram of potassium hydroxide)
KPO	Kilogram of potassium oxide
KPP	Kilogram of phosphoric anhydride (kilogram of phosphoric pentoxide)
KSD	Kilogram of substance 90% dry
KSH	Kilogram of caustic soda
KTN	Kilotonne
KUR	Kilogram of uranium
KVA	Kilovolt-ampere
KVR	Kilovar
KVT	Kilovolt
KWH	Kilowatt-hour

Table 28 Codes for Units of Measurement (Continued)

Value	Description
KWT	Kilowatt
LBR	Pound GB, US (0.45359237 kg)
LBS	Unknown unit of measure
LBT	Troy pound, US (373.242 g)
LEF	Leaf
LPA	Liter of pure alcohol
LTN	Long ton GB, US (1.0160469 T)
LTR	Liter (1 dm ³)
LUM	Lumen
LUX	Lux
MAL	Megaliter
MAM	Megameter
MAW	Megawatt
MBE	Thousand standard brick equivalent
MBF	Thousand board-feet (2.36 m ³)
MBR	Millibar
MCU	Millicurie
MGM	Milligram
MHZ	Megahertz
MIK	Square mile
MIL	Thousand
MIN	Minute
MIO	Million
MIU	Million international units
MLD	Billion US (milliard)
MLT	Milliliter
MMK	Square millimeter
MMQ	Cubic millimeter
MMT	Millimeter
MON	Month
MPA	Megapascal
MQH	Cubic meter per hour
MQS	Cubic meter per second
MSK	Meter per second squared
MTK	Square meter

Table 28 Codes for Units of Measurement (Continued)

Value	Description
MTQ	Cubic meter
MTR	Meter
MTS	Meter per second
MVA	Megavolt-ampere (1000 kva)
MWH	Megawatt-hour (1000 kWh)
NAR	Number of articles
NBB	Number of bobbins
NCL	Number of cells
NEW	Newton
NIU	Number of international units
NMB	Number
NMI	Nautical mile (1852 m)
NMP	Number of packs
NMR	Number of pairs
NPL	Number of parcels
NPT	Number of parts
NRL	Number of rolls
NTT	Net (register) ton
OHM	Ohm
ONZ	Ounce GB, US (28.349523 g)
OZA	Fluid ounce (29.5735 cm ³)
OZI	Fluid ounce (28.413 cm ³)
PAL	Pascal
PCB	Piece
PCE	Unknown unit of measure
PER	Unknown unit of measure
PGL	Proof gallon
PK	Unknown unit of measure
PTD	Dry pint (0.55061 dm ³)
PTI	Pint (0.568262 dm ³)
PTL	Liquid pint (0.473176 dm ³)
QAN	Quarter (of a year)
QTD	Dry quart (1.101221 dm ³)
QTI	Quart (1.136523 dm ³)
QTL	Liquid quart (0.946353 dm ³)

Table 28 Codes for Units of Measurement (Continued)

Value	Description
QTR	Quarter, GB (12.700586 kg)
RL	Unknown unit of measure
RM	Unknown unit of measure
RPM	Revolution per minute
RPS	Revolution per second
SAN	Half year (6 months)
SCO	Score
SCR	Scruple GB, US (1.295982 g)
SEC	Second
SET	Set
SHT	Shipping ton
SIE	Siemens
SMI	(Statute) mile (1609.344 m)
SST	Short Standard (7200 matches)
ST	Unknown unit of measure
STI	Stone GB (6.350293 kg)
STN	Short ton GB, US (0.90718474 T)
TAH	Thousand ampere-hour
TNE	Metric ton (1000 kg) (tonne (1000 kg))
TPR	Ten pairs
TQD	Thousand cubic meters per day
TRL	Trillion EUR
TSD	Tonne of substance 90% dry
TSH	Ton of steam per hour
VLТ	Volt
WCD	Cord (3.63 m ³)
WEB	Weber
WEE	Week
WHR	Watt-hour
WSD	Standard
WTT	Watt
YDK	Square yard
YDQ	Cubic yard
YRD	Yard (0.9144 m)

Exemption Status Values

Status for exemption from sales and use tax. Use these values for the **other_tax#_status_indicator** field on American Express Direct.

Table 29 Exemption Status Values

Value	Description
0	Exempt (for export)
1	Yes (tax exempt)
2	No (not tax exempt)
3	Exempt (for resale)
4	Not exempt (for resale)
5	Exempt (not for resale)
6	Not exempt (not for resale)
7	Direct pay ID
8	Exempt (sale to US government)
9	Exempt (per state law)
A	Labor taxable, material exempt
B	Material taxable, labor exempt
C	Not taxable
D	Disabled
E	Exempt toll service
F	Exempt (goods and services tax)
G	Exempt (provincial sales tax)
H	Homestead
I	Agriculture
J	Working farm
K	Open space
L	Exempt local service
M	Disabled veteran
N	Non-homestead
O	Over 65

Table 29 Exemption Status Values (Continued)

P	Exempt from school property tax
Q	Exempt from local property tax
R	Recurring exempt
S	Exempt from county property tax
T	Total exempt
U	Usage exempt
V	Exempt from state property tax
W	Other property tax exemption
X	Exempt, letter on file

Product Codes

The following table lists the values you can use for the product code in the **product_code** offer-level field.

Table 30 Product Codes

Product Code	Definition
adult_content	Adult content.
coupon	Coupon applied to the entire order.
default	Default value for the product code. CyberSource uses <code>default</code> when a request message does not include a value for the product code.
electronic_good	Electronic product other than software.
electronic_software	Software distributed electronically rather than on disks or other media.
gift_certificate	Gift certificate.
handling_only	Fee that you charge your customer to cover your administrative selling costs.
service	Service that you perform for your customer.
shipping_and_handling	The shipping portion is the charge for shipping the product to your customer. The handling portion is the fee you charge your customer to cover your administrative selling costs.
shipping_only	Charge for transporting tangible personal property from your location to your customer. You must maintain documentation that clearly establishes the location where the title to the property passed from you to your customer.
subscription	Subscription to a web site or other content.

Reference Data Codes

Code that identifies reference data. Use these values for the **reference_data_code** field on American Express Direct.

Table 31 Reference Data Codes

Value	Description
11	Account number (general ledger)
19	Division identifier
21	Tracking number
53	User location number (SWIFT MT 202)
ACE	Service request number
BP	Adjustment control number or purchasing organization part number
BT	Batch number
C1	Customer material specification number
CA	Cost allowance reference or cost center number
DP	Department number
EB	Service agreement number
JB	Project number
K8	Project paragraph number
LC	Lease number
LG	Lease schedule number
LT	Lot number
MJ	Model number
MZ	Maintenance request number
PK	Packing list number
PT	Purchase option agreement
R8	Rental agreement number
RQ	Purchase requisition number
SE	Serial number
TN	Transaction reference number
WO	Work order number