

Card-Present Transactions

Supplement to the *Credit Card Services User Guide*

December 2016



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Recent Revisions to This Document

Release	Changes
December 2016	This revision contains only editorial changes and no technical updates.
August 2016	GPN: added support for pos_catLevel field. See " General Card-Present Request Fields ," page 14.
March 2016	Chase Paymentech Solutions, FDC Nashville Global, and GPN: added support for relaxed requirements for address data and expiration dates. See " Relaxed Requirements for Address Data and Expiration Date ," page 9.
April 2015	TSYS Acquiring Solutions: added support for the pos_catLevel field for transactions from mobile devices. See " General Card-Present Request Fields ," page 14.
December 2014	Changed the <i>retail</i> and <i>retail POS</i> terminology to <i>card present</i> .
May 2014	FDC Nashville Global: updated the pos_terminalID field and added the pos_terminalIDAlternate field. See " General Card-Present Request Fields ," page 14.

About This Guide

Audience and Purpose

This guide is written for application developers who want to use the CyberSource Simple Order API to integrate credit card processing with card-present data into their order management system. The [Credit Card Services User Guide](#) provides the basic information about credit card processing with CyberSource. This supplement provides information about additional requirements and options for card-present transactions.

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 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:

Table 1 Text Conventions

Convention	Meaning
boldface	<ul style="list-style-type: none">■ API field names■ API service names■ Graphical user interface elements that you must act upon
<code>monospace</code>	Code in examples or possible values for API fields

Related Documentation

- *Getting Started with CyberSource Essentials* ([PDF](#) | [HTML](#)) describes how to get started using the Simple Order API.
- The *Credit Card Services User Guide* ([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 Card-Present Transactions

This supplement to the *Credit Card Services User Guide* describes card-present processing with CyberSource.

Supported Processors

CyberSource supports card-present credit card transactions for the processors shown in the following table.

Table 2 Processors that CyberSource Supports for Card-Present Transactions

Processor	Magnetic Stripe
Chase Paymentech Solutions	Yes
FDC Nashville Global	Yes
FDMS Nashville	Yes
GPN	Yes
RBS WorldPay Atlanta	Yes
TSYS Acquiring Solutions	Yes

Prerequisites

Before you start your implementation:

- Contact your acquirer to find out whether you are allowed to process card-present transactions.
- Find out from your acquirer and CyberSource Customer Support whether you must have a separate CyberSource merchant ID for your card-present transactions.
- Contact CyberSource Customer Support to have your account configured to process card-present transactions.

- Make sure that you are familiar with the CyberSource Simple Order API for processing e-commerce and mail order/telephone order (MOTO) transactions as described in [Credit Card Services User Guide](#). The request and reply fields for card-present transactions are very similar to the request and reply fields for e-commerce and MOTO transactions.

Table 3 Card-Present Fields in Service Requests and Replies

Service Request	Description
Authorization request	A card-present authorization request includes additional fields and several existing authorization request fields have different requirements when the request is for a card-present transaction.
Authorization reply	A card-present authorization reply includes the same fields that are included for an e-commerce or MOTO transaction.
Capture request	A card-present capture request includes the same fields that are included for an e-commerce or MOTO transaction.
Capture reply	A card-present capture reply includes the same fields that are included for an e-commerce or MOTO transaction.

Optional Features

Relaxed Requirements for Address Data and Expiration Date

Service:

- Authorization
- Stand-alone credit

Processors:

- Chase Paymentech Solutions
- FDC Nashville Global
- GPN

To enable relaxed requirements for address data and expiration date for credit card transactions, contact CyberSource Customer Support to have your account configured for this feature.

Historically, this data was mandated by CyberSource. With the advent of digital payments and an increasingly global e-commerce environment, CyberSource decided to relax the requirements for address data and expiration date for credit card transactions.

Relaxed requirements for address data and expiration date make the following fields optional for payment processing for credit card transactions:

- billTo_city
- billTo_country
- billTo_email
- billTo_firstname
- billTo_lastname
- billTo_postalCode: if you include this field in your request, you must also include **billTo_country**.

- `billTo_state`
- `billTo_street1`
- `card_expirationMonth`: if you include this field in your request, you must also include **`card_expirationYear`**.
- `card_expirationYear`: if you include this field in your request, you must also include **`card_expirationDate`**.



When relaxed requirements for address data and expiration date are enabled for your CyberSource account, and your service request does not include one or more of the fields in the preceding list, you increase the risk of declined transactions and fraud depending on your location, your processor, and the cardholder's issuing bank.

It is your responsibility to determine whether a field is required for the transaction you are requesting. For example, effective October 2014, an issuing bank can decline an authorization request for a recurring transaction with a Visa Europe card if the expiration date is incorrect, invalid, or missing. If you do not provide the correct expiration date for a recurring transaction, the authorization request may be declined.

API Fields



Important

When you send an authorization request that includes card-present data, you must include the basic fields required for every authorization request. For information about card-not-present fields required for these requests, see the [Credit Card Services User Guide](#).

XML Schema Versions

For general information about the XML schema versions, see [Getting Started with CyberSource Essentials](#). The following table specifies the Simple Order API version to use for each processor for clear-text card-present transactions.

Table 4 Simple Order API XML Schema Versions for Card-Present Transactions

Processor	Version for Clear Text Transactions
Chase Paymentech Solutions	1.25 or later
FDC Nashville Global	1.24 or later
FDMS Nashville	1.29 or later
GPN	1.26 or later
RBS WorldPay Atlanta	1.48 or later
TSYS Acquiring Solutions	1.13 or later

Formatting Restrictions

Unless otherwise noted, all field names are case sensitive and all fields accept special characters such as @, #, and %.



Note

The values of the **item_#_** fields must not contain carets (^) or colons (:) because these characters are reserved for use by the CyberSource services.

Values for request-level and item-level fields must not contain new lines or carriage returns. However, they can contain embedded spaces and any other printable characters. CyberSource removes all leading and trailing spaces.

Data Type Definitions

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

Data Type	Description
Integer	Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}
String	Sequence of letters, numbers, spaces, and special characters

Clear Text Request Field

Table 5 Clear Text Request Field

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
pos_trackData	<p>Card's track 1 and 2 data. For all processors except FDMS Nashville, this value consists of one of the following:</p> <ul style="list-style-type: none"> ■ Track 1 data ■ Track 2 data ■ Data for both tracks 1 and 2 <p>For FDMS Nashville, this value consists of one of the following:</p> <ul style="list-style-type: none"> ■ Track 1 data ■ Data for both tracks 1 and 2 <p>Example: %B41111111111111111111111111111111^SMITH/ JOHN ^1612101976110000868000000?;41 11111111111111111111111111111111=16121019761186800000?</p>	ccAuthService (Required if pos_ entryMode=swiped ; otherwise, not used)	String (119)

General Card-Present Request Fields

Table 6 General Card-Present Request Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
billTo_city	Credit card billing city.	ccAuthService: <ul style="list-style-type: none"> ■ Chase Paymentech Solutions: optional. ■ TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. ■ All other processors: not used. 	String (50)
billTo_country	Credit card billing country. Use the two-character <i>ISO Standard Country Codes</i> .	ccAuthService: <ul style="list-style-type: none"> ■ Chase Paymentech Solutions: optional. ■ TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. ■ All other processors: not used. 	String (2)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
billTo_email	Customer's email address, including full domain name. Format: name@host.domain	ccAuthService: <ul style="list-style-type: none"> ■ Chase Paymentech Solutions: optional. ■ TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. ■ All other processors: not used. 	String (255)
billTo_firstName	Customer's first name. Value should match value on card.	ccAuthService: <ul style="list-style-type: none"> ■ Chase Paymentech Solutions: optional. ■ TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. ■ All other processors: not used. 	String (60)
billTo_lastName	Customer's last name. Value should match value on card.	ccAuthService: <ul style="list-style-type: none"> ■ Chase Paymentech Solutions: optional. ■ RBS WorldPay Atlanta: optional. ■ TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. ■ All other processors: not used. 	String (60)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
billTo_phoneNumber	Customer's phone number. CyberSource recommends that you include the country code when order is from outside the U.S.	ccAuthService: <ul style="list-style-type: none"> ■ Chase Paymentech Solutions: optional. ■ TSYS Acquiring Solutions: optional. ■ All other processors: not used. 	String (15)
billTo_postalCode	Postal code for billing address. Postal code must consist of 5 to 9 digits. When the billing country is 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	ccAuthService: <ul style="list-style-type: none"> ■ FDMS Nashville: required if pos_entryMode=keyed and the address is in the U.S. or Canada. Optional if pos_entryMode=keyed and the address is not in the U.S. or Canada. Not used if swiped. ■ RBS WorldPay Atlanta: for best card-present keyed rates, send the postal code if pos_entryMode=keyed. ■ TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. ■ All other processors: optional. 	String (10)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
billTo_state	Credit card billing state or province. Use State, Province, and Territory Codes for the United States and Canada .	ccAuthService: <ul style="list-style-type: none"> Chase Paymentech Solutions: optional. TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. All other processors: not used. 	String (2)
billTo_street1	Credit card billing street address as it appears in credit card issuer's records. FDMS Nashville: When the street name is numeric, it must be sent in numeric format. For example, if the address is <i>One First Street</i> , it must be sent as <i>1 1st Street</i> .	ccAuthService: <ul style="list-style-type: none"> FDMS Nashville: required if keyed; not used if swiped. TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed. All other processors: optional. 	FDMS Nashville: String (20) All other processors: String (60)
billTo_street2	Used for additional address information. For example: Attention: Accounts Payable FDMS Nashville: billTo_street1 and billTo_street2 together cannot exceed 20 characters.	ccAuthService (O)	FDMS Nashville: String (20) All other processors: String (60)

1 This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
card_accountNumber	Customer's credit card number.	ccAuthService: <ul style="list-style-type: none"> ■ FDMS Nashville: required. ■ All other processors: required if pos_entryMode=keyed. 	FDMS Nashville: String with numbers only (19) All other processors: String with numbers only (20)
card_cardType	Type of card to authorize. Possible values: <ul style="list-style-type: none"> ■ 001: Visa ■ 002: MasterCard ■ 003: American Express ■ 004: Discover ■ 005: Diners Club ■ 006: Carte Blanche ■ 007: JCB 	ccAuthService (Required for Carte Blanche and JCB. Optional for other card types.) Important CyberSource strongly recommends that you send the card type even when it is optional for your processor and card type. Omitting the card type can cause the transaction to be processed with the wrong card type.	String (3)
card_cvIndicator	Indicates whether a CVN code was sent. Possible values: <ul style="list-style-type: none"> ■ 0 (default): CVN service not requested. CyberSource uses this default when you do not include card_cvNumber in the request. ■ 1 (default): CVN service requested and supported. CyberSource uses this default when you include card_cvNumber in the request. ■ 2: CVN on credit card is illegible. ■ 9: CVN not imprinted on credit card. 	ccAuthService: <ul style="list-style-type: none"> ■ FDMS Nashville: required for American Express; otherwise, optional. ■ TSYS Acquiring Solutions: optional if pos_entryMode=keyed; otherwise, not used. ■ All other processors: optional. 	String with numbers only (1)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
card_cvNumber	CVN. See CVN information in Credit Card Services User Guide .	ccAuthService: <ul style="list-style-type: none"> ■ FDMS Nashville: required for American Express or if swiped; otherwise, optional. ■ TSYS Acquiring Solutions: optional if pos_entryMode= keyed; otherwise, not used. ■ All other processors: optional. 	String with numbers only (4)
card_expirationMonth	Two-digit month in which credit card expires. Format: MM. Possible values: 01 through 12. Leading 0 is required.	ccAuthService: <ul style="list-style-type: none"> ■ FDMS Nashville: required. ■ All other processors: required if pos_entryMode=keyed.¹ 	String (2)
card_expirationYear	Four-digit year in which credit card expires. Format: YYYY.	ccAuthService: <ul style="list-style-type: none"> ■ FDMS Nashville: required. ■ All other processors: required if pos_entryMode=keyed.¹ 	String (4)
ccAuthService_billPayment	Indicates payment for bill or payment towards existing contractual loan. For information about Visa Bill Payments and Visa Debt Repayments, see Credit Card Services User Guide . Possible values: <ul style="list-style-type: none"> ■ true: Bill payment or loan payment. ■ false (default): Not a bill payment or loan payment. 	ccAuthService (O)	String (5)
ccAuthService_commerceIndicator	Type of transaction. For a card-present transaction, you must set this field to <i>retail</i> .	ccAuthService (R)	String (13)
ccAuthService_run	Set to <i>true</i> to request credit card authorization.	ccAuthService (R)	String (255)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
item_#_productCode	<p>Type of product. This value is used to identify the product category (electronic, handling, physical, service, or shipping). The default value is <code>default</code>. For a list of valid values, see the information about product codes in Credit Card Services User Guide.</p> <p>When this field is not set to <code>default</code> or one of the values related to shipping and/or handling, the item_#_quantity, item_#_productName, and item_#_productSKU fields are required. For information about items and grand totals, see Getting Started with CyberSource Essentials.</p>	ccAuthService (O)	String (30)
item_#_productName	Required when item_#_productCode is not <code>default</code> or one of the values related to shipping and/or handling.	ccAuthService (See description)	String (30)
item_#_productSKU	Product identifier code. Required when item_#_productCode is not <code>default</code> or one of the values related to shipping and/or handling.	ccAuthService (See description)	String (15)
item_#_quantity	Default is 1. Required when item_#_productCode is not <code>default</code> or one of the values related to shipping and/or handling.	ccAuthService (See description)	Integer (10)
item_#_taxAmount	<p>Total tax to apply to the product. This value cannot be negative. The tax amount and the unit price 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 items in your request: <pre> item_0_unitPrice=10.00 item_0_quantity=1 item_0_taxAmount=0.80 item_1_unitPrice=20.00 item_1_quantity=1 item_1_taxAmount=1.60 </pre> The total amount authorized will be 32.40, not 30.00 with 2.40 of tax included. 	ccAuthService (O)	String (15)

1 This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
item_#_unitPrice	<p>Per-item price of the product. You must include either this field or purchaseTotals_grandTotalAmount in your request. This value cannot be negative. For information about items and grand totals, see Getting Started with CyberSource Essentials.</p> <p>You can include a decimal point (.) in the value for this field, but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.</p>	ccAuthService (See description)	<p>For GPN: String (10)</p> <p>All other processors: String (15)</p>
merchantID	Your CyberSource merchant ID.	ccAuthService (R)	String (30)
merchantReference Code	<p>Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For information about tracking orders, see Getting Started with CyberSource Essentials.</p> <p>FDC Nashville Global: This value must be numeric and must be less than 9 digits. When you do not send a valid value, CyberSource creates one for you. However, the value is not returned to you, so you cannot use the merchant reference number to track the order.</p>	ccAuthService (R)	String (50)
pos_cardPresent	<p>Indicates whether the card is present at the time of the transaction. Possible values:</p> <ul style="list-style-type: none"> ■ N: Card is not present. ■ Y: Card is present. 	<p>ccAuthService:</p> <ul style="list-style-type: none"> ■ FDMS Nashville: not used. ■ All other processors: required. 	String (1)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
pos_catLevel	Type of cardholder-activated terminal. Possible values: <ul style="list-style-type: none"> 1: Automated dispensing machine 2: Self-service terminal 3: Limited amount terminal 6: Mobile acceptance terminal <p>Chase Paymentech Solutions Only values 1, 2, and 3 are supported.</p> <p>GPN Only value 6 is supported.</p> <p>TSYS Acquiring Solutions Only value 6 is supported.</p>	ccAuthService: <ul style="list-style-type: none"> Chase Paymentech Solutions: required if pos_terminalID is included in the request; otherwise, optional. GPN: required. TSYS Acquiring Solutions: required for transactions from mobile devices; otherwise, not used. All other processors: not used. 	Nonnegative integer (1)
pos_entryMode	Method of entering credit card information into the POS terminal. Possible values: <ul style="list-style-type: none"> keyed: Manually keyed into POS terminal. swiped: Read from credit card magnetic stripe. 	ccAuthService (R)	String (11)
pos_terminalCapability	POS terminal's capability. Possible values: <ul style="list-style-type: none"> 1: Terminal has a magnetic stripe reader only. 2: Terminal has a magnetic stripe reader and manual entry capability. 3: Terminal has manual entry capability only. 	ccAuthService: <ul style="list-style-type: none"> Chase Paymentech Solutions: required. FDC Nashville Global: required. FDMS Nashville: required. GPN: optional. RBS WorldPay Atlanta: optional. TSYS Acquiring Solutions: optional. 	Integer (1)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
pos_terminalID	<p>Identifier for the terminal at your retail location. You can define this value yourself, but consult the processor for requirements.</p> <p>FDC Nashville Global</p> <p>To have your account configured to support this field, contact CyberSource Customer Support. This value must be a value that FDC Nashville Global issued to you.</p>	<p>ccAuthService:</p> <ul style="list-style-type: none"> ■ Chase Paymentech Solutions: optional. If you include this field in your request, you must also include pos_catLevel. ■ FDC Nashville Global: optional. If not provided, CyberSource uses the value in your CyberSource account. ■ FDMS Nashville: CyberSource uses the value in your CyberSource account. ■ GPN: not used. ■ RBS WorldPay Atlanta: not used. ■ TSYS Acquiring Solutions: not used. 	String (8)
pos_terminalIDAlternate	<p>Identifier for an alternate terminal at your retail location. You define the value for this field.</p> <p>This field is supported only for MasterCard transactions on FDC Nashville Global. Use the pos_terminalID field to identify the main terminal at your retail location. If your retail location has multiple terminals, use this pos_terminalIDAlternate field to identify the terminal used for the transaction.</p> <p>This field is a <i>pass-through</i>, which means that CyberSource does not check the value or modify the value in any way before sending it to the processor.</p>	<p>ccAuthService:</p> <ul style="list-style-type: none"> ■ FDC Nashville Global: optional for MasterCard transactions; otherwise, not used. ■ All other processors: not used. 	String (8)
purchaseTotals_currency	Currency used for order. For possible values, see ISO Standard Currency Codes .	ccAuthService (R)	String (5)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
purchaseTotals_ grandTotalAmount	Grand total for the order. You must include either this field or item_#_unitPrice in your request. For information about items and grand totals, see Getting Started with CyberSource Essentials .	ccAuthService (See description)	String (15)
shipTo_city	City of shipping address.	ccAuthService (Required if any shipping address information is included in the request and shipping to the U.S. or Canada; otherwise, optional.)	String (50)
shipTo_country	Country of shipping address. Use the two-character ISO Standard Country Codes .	ccAuthService (Required if any shipping address information is included in the request; otherwise, optional.)	String (2)
shipTo_firstName	First name of the person receiving the shipment.	ccAuthService (O)	String (60)
shipTo_lastName	Last name of the person receiving the shipment.	ccAuthService (O)	String (60)
shipTo_postalCode	Postal code for the shipping address. The postal code must consist of 5 to 9 digits. When the shipping country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example: 12345-6789 When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric] Example: A1B 2C3	ccAuthService (Required if any shipping address information is included in the request and shipping to the U.S. or Canada; otherwise, optional.)	String (10)
shipTo_state	State or province to ship the product to. Use the State, Province, and Territory Codes for the United States and Canada .	ccAuthService (Required if any shipping address information is included in the request and shipping to the U.S. or Canada; otherwise, optional.)	String (2)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
shipTo_street1	First line of shipping address.	ccAuthService (Required if any shipping address information is included in the request; otherwise, optional.)	String (60)
shipTo_street2	Second line of shipping address.	ccAuthService (O)	String (60)
transactionLocalDate Time	Date and time at your physical location. Format: YYYYMMDDhhmmss, where YYYY = year MM = month DD = day hh = hour mm = minutes ss = seconds	ccAuthService (O)	String (14)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 9. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Examples

Name-Value Pair Examples

Sale Using Swiped Track Data

Example 1 Request Message: Sale Using Swiped Track Data

```

merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=swiped
pos_cardPresent=Y
pos_terminalCapability=2
pos_trackData=%B41111111111111111111^SMITH/BETTY^16121200123456789012**
    XXX*****?*;4111111111111111=16121200XXXX00000000?*
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccCaptureService_run=true

```

Example 2 Reply Message: Sale Using Swiped Track Data

```

merchantReferenceCode=ABC123
requestID=0305782650000167905080
decision=ACCEPT
reasonCode=100
purchaseTotals_currency=usd
ccAuthReply_reasonCode=100
ccAuthReply_amount=75.00
ccAuthReply_authorizationCode=831000
ccAuthReply_avsCode=2
ccAuthReply_processorResponse=00
ccAuthReply_reconciliationID=1094820975023470
ccAuthReply_paymentNetworkTransactionID=0412MCCNYJPWY
ccAuthReply_cardCategory=J1
ccAuthReply_cardGroup=0
ccCaptureReply_reasonCode=100
ccCaptureReply_amount=75.00
ccCaptureReply_reconciliationID=1094820975023470
receiptNumber=260371

```

Sale Using Keyed Data

Example 3 Request Message: Sale Using Keyed Data

```

merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=keyed
pos_cardPresent=Y
pos_terminalCapability=2
card_accountNumber=4111111111111111
card_expirationMonth=12
card_expirationYear=2016
card_cardType=001
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccCaptureService_run=true

```

Example 4 Reply Message: Sale Using Keyed Data

```

merchantReferenceCode=ABC123
requestID=0305782650000167905080
decision=ACCEPT
reasonCode=100
purchaseTotals_currency=usd
ccAuthReply_reasonCode=100
ccAuthReply_amount=75.00
ccAuthReply_authorizationCode=831000
ccAuthReply_avsCode=2
ccAuthReply_processorResponse=00
ccAuthReply_reconciliationID=1094820975023470
ccAuthReply_paymentNetworkTransactionID=0412MCCNYJPWY
ccAuthReply_cardCategory=J1
ccAuthReply_cardGroup=0
ccCaptureReply_reasonCode=100
ccCaptureReply_amount=75.00
ccCaptureReply_reconciliationID=1094820975023470
receiptNumber=260371

```

XML Examples

Sale Using Swiped Track Data

Example 5 Request Message: Sale Using Swiped Track Data

```

<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>JanesPlants</merchantID>
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <purchaseTotals>
    <currency>usd</currency>
    <grandTotalAmount>75.00</grandTotalAmount>
  </purchaseTotals>
  <pos>
    <entryMode>swiped</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>2</terminalCapability>
    <trackData>%B41111111111111111111111111111111^SMITH/BETTY^16121200123456789012**XXX*****?*;
      41111111111111111111111111111111=16121200XXXX00000000?*</trackData>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
  </ccAuthService>
  <ccCaptureService run="true"/>
</requestMessage>

```

Example 6 Reply Message: Sale Using Swiped Track Data

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>ABC123</c:merchantReferenceCode>
  <c:requestID>0305782650000167905080</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:purchaseTotals>
    <c:currency>usd</c:currency>
  </c:purchaseTotals>
  <c:ccAuthReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>75.00</c:amount>
    <c:authorizationCode>831000</c:authorizationCode>
    <c:avsCode>2</c:avsCode>
    <c:processorResponse>00</c:processorResponse>
    <c:reconciliationID>1094820975023470</c:reconciliationID>
    <c:paymentNetworkTransactionID>0412MCCNYJPWY</c:paymentNetworkTransactionID>
    <c:cardCategory>J1</c:cardCategory>
    <c:cardGroup>0</c:cardGroup>
  </c:ccAuthReply>
  <c:ccCaptureReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>75.00</c:amount>
    <c:reconciliationID>1094820975023470</c:reconciliationID>
  </c:ccCaptureReply>
  <c:receiptNumber>260371</c:receiptNumber>
</c:replyMessage>
```

Sale Using Keyed Data

Example 7 Request Message: Sale Using Keyed Data

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>JanesPlants</merchantID>
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <purchaseTotals>
    <currency>usd</currency>
    <grandTotalAmount>75.00</grandTotalAmount>
  </purchaseTotals>
  <pos>
    <entryMode>keyed</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>2</terminalCapability>
  </pos>
  <card>
    <accountNumber>4111111111111111</accountNumber>
    <expirationMonth>12</expirationMonth>
    <expirationYear>2016</expirationYear>
    <cardType>001</cardType>
  </card>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
  </ccAuthService>
  <ccCaptureService run="true"/>
</requestMessage>
```

Example 8 Reply Message: Sale Using Keyed Data

```

<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>ABC123</c:merchantReferenceCode>
  <c:requestID>0305782650000167905080</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:purchaseTotals>
    <c:currency>usd</c:currency>
  </c:purchaseTotals>
  <c:ccAuthReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>75.00</c:amount>
    <c:authorizationCode>831000</c:authorizationCode>
    <c:avsCode>2</c:avsCode>
    <c:processorResponse>00</c:processorResponse>
    <c:reconciliationID>1094820975023470</c:reconciliationID>
    <c:paymentNetworkTransactionID>0412MCCNYJPWY</c:paymentNetworkTransactionID>
    <c:cardCategory>J1</c:cardCategory>
    <c:cardGroup>0</c:cardGroup>
  </c:ccAuthReply>
  <c:ccCaptureReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>75.00</c:amount>
    <c:reconciliationID>1094820975023470</c:reconciliationID>
  </c:ccCaptureReply>
  <c:receiptNumber>260371</c:receiptNumber>
</c:replyMessage>

```
