

# Card-Present Transactions

## Supplement to the *Credit Card Services User Guide*

September 2017



## CyberSource Contact Information

For technical support questions, go to the Home page in the Business Center to see the contact information appropriate for your account.

Visit the Business Center, your central location for managing your online payment transactions, at <https://businesscenter.cybersource.com>.

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

For sales questions about any CyberSource Service, email [sales@cybersource.com](mailto:sales@cybersource.com) or call 650-432-7350 or 888-330-2300 (toll free in the United States).

## Copyright

© 2017 CyberSource Corporation. All rights reserved. CyberSource Corporation ("CyberSource") furnishes this document and the software described in this document under the applicable agreement between the reader of this document ("You") and CyberSource ("Agreement"). You may use this document and/or software only in accordance with the terms of the Agreement. Except as expressly set forth in the Agreement, the information contained in this document is subject to change without notice and therefore should not be interpreted in any way as a guarantee or warranty by CyberSource. CyberSource assumes no responsibility or liability for any errors that may appear in this document. The copyrighted software that accompanies this document is licensed to You for use only in strict accordance with the Agreement. You should read the Agreement carefully before using the software. Except as permitted by the Agreement, You may not reproduce any part of this document, store this document in a retrieval system, or transmit this document, in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written consent of CyberSource.

## Restricted Rights Legends

**For Government or defense agencies.** Use, duplication, or disclosure by the Government or defense agencies is subject to restrictions as set forth the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 and in similar clauses in the FAR and NASA FAR Supplement.

**For civilian agencies.** Use, reproduction, or disclosure is subject to restrictions set forth in subparagraphs (a) through (d) of the Commercial Computer Software Restricted Rights clause at 52.227-19 and the limitations set forth in CyberSource Corporation's standard commercial agreement for this software. Unpublished rights reserved under the copyright laws of the United States.

## Trademarks

Authorize.Net, eCheck.Net, and The Power of Payment are registered trademarks of CyberSource Corporation.

CyberSource, CyberSource Payment Manager, CyberSource Risk Manager, CyberSource Decision Manager, and CyberSource Connect are trademarks and/or service marks of CyberSource Corporation.

All other brands and product names are trademarks or registered trademarks of their respective owners.

# Contents

## **Recent Revisions to This Document** 5

### **About This Guide** 6

Audience and Purpose 6

Conventions 6

Related Documentation 7

Customer Support 7

---

## **Chapter 1 Introduction to Card-Present Transactions** 8

Supported Processors 8

Prerequisites 8

---

## **Chapter 2 Optional Features** 10

Relaxed Requirements for Address Data and Expiration Date 10

---

## **Appendix A API Fields** 11

XML Schema Versions 11

Formatting Restrictions 12

Data Type Definitions 12

Clear Text Request Field 13

General Card-Present Request Fields 13

---

<b>Appendix B</b>	<b>Examples</b>	<b>26</b>
	Name-Value Pair Examples	26
	Sale Using Swiped Track Data	26
	Sale Using Keyed Data	27
	XML Examples	28
	Sale Using Swiped Track Data	28
	Sale Using Keyed Data	30

# Recent Revisions to This Document

Release	Changes
September 2017	This revision contains only editorial changes and no technical updates.
August 2017	All processors: added information about the CyberSource APIs to the CyberSource web site. See the <a href="#">CyberSource API Versions page</a> .  All processors that support relaxed requirements: moved the relaxed requirements information to a web page: <a href="#">Relaxed Requirements for Address Data and Expiration Date page</a> .
December 2016	This revision contains only editorial changes and no technical updates.
August 2016	GPN: added support for <b>pos_catLevel</b> field. See " <a href="#">General Card-Present Request Fields</a> ," page 13.
March 2016	Chase Paymentech Solutions, FDC Nashville Global, and GPN: added support for relaxed requirements for address data and expiration dates. See <a href="#">Relaxed Requirements for Address Data and Expiration Date page</a> .

# 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
<b>Bold</b>	<ul style="list-style-type: none"> <li>■ API field names</li> <li>■ API service names</li> <li>■ Graphical user interface elements that you must act upon</li> </ul>
Screen text	<ul style="list-style-type: none"> <li>■ XML elements</li> <li>■ Code examples</li> <li>■ Values for API fields; for example: Set the <b>ccAuthService_run</b> field to <code>true</code>.</li> </ul>

## Related Documentation

---

- *Getting Started with CyberSource Essentials* ([PDF](#) | [HTML](#)) describes how to get started using the Simple Order API.
- The [CyberSource API Versions](#) page provides information about the CyberSource API versions.
- 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](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**

<b>Service Request</b>	<b>Description</b>
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

---

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 [Relaxed Requirements for Address Data and Expiration Date](#) page.

# 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 Second Edition](#).

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"> <li>■ Track 1 data</li> <li>■ Track 2 data</li> <li>■ Data for both tracks 1 and 2</li> </ul> <p>For FDMS Nashville, this value consists of one of the following:</p> <ul style="list-style-type: none"> <li>■ Track 1 data</li> <li>■ Data for both tracks 1 and 2</li> </ul> <p><b>Example</b> %B41111111111111111111111111111111^SMITH/ JOHN ^1612101976110000868000000?;41 11111111111111111111111111111111=16121019761186800000?</p>	ccAuthService (Required if <b>pos_</b> <b>entryMode=swiped</b> ; 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"> <li>■ Chase Paymentech Solutions: optional.</li> <li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li> <li>■ All other processors: not used.</li> </ul>	String (50)

<sup>1</sup> 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 10. **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_country	Credit card billing country. Use the two-character <a href="#">ISO Standard Country Codes</a> .	ccAuthService: <ul style="list-style-type: none"> <li>■ Chase Paymentech Solutions: optional.</li> <li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li> <li>■ All other processors: not used.</li> </ul>	String (2)
billTo_email	Customer's email address, including full domain name. Format: name@host.domain	ccAuthService: <ul style="list-style-type: none"> <li>■ Chase Paymentech Solutions: optional.</li> <li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li> <li>■ All other processors: not used.</li> </ul>	String (255)
billTo_firstName	Customer's first name. Value should match value on card.	ccAuthService: <ul style="list-style-type: none"> <li>■ Chase Paymentech Solutions: optional.</li> <li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li> <li>■ All other processors: not used.</li> </ul>	String (60)

<sup>1</sup> 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 10. **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_lastName	Customer's last name. Value should match value on card.	ccAuthService: <ul style="list-style-type: none"> <li>■ Chase Paymentech Solutions: optional.</li> <li>■ RBS WorldPay Atlanta: optional.</li> <li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li> <li>■ All other processors: not used.</li> </ul>	String (60)
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"> <li>■ Chase Paymentech Solutions: optional.</li> <li>■ TSYS Acquiring Solutions: optional.</li> <li>■ All other processors: not used.</li> </ul>	String (15)

<sup>1</sup> 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 10. **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_postalCode	<p>Postal code for billing address. Postal code must consist of 5 to 9 digits.</p> <p>When the billing country is U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</p> <p><b>Example</b> 12345-6789</p> <p>When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric]</p> <p><b>Example</b> A1B 2C3</p>	<p>ccAuthService:</p> <ul style="list-style-type: none"> <li>■ FDMS Nashville: required if <b>pos_entryMode=keyed</b> and the address is in the U.S. or Canada. Optional if <b>pos_entryMode=keyed</b> and the address is not in the U.S. or Canada. Not used if swiped.</li> <li>■ RBS WorldPay Atlanta: for best card-present keyed rates, send the postal code if <b>pos_entryMode=keyed</b>.</li> <li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li> <li>■ All other processors: optional.</li> </ul>	String (10)
billTo_state	<p>Credit card billing state or province. Use <a href="#">State, Province, and Territory Codes for the United States and Canada</a>.</p>	<p>ccAuthService:</p> <ul style="list-style-type: none"> <li>■ Chase Paymentech Solutions: optional.</li> <li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li> <li>■ All other processors: not used.</li> </ul>	String (2)

<sup>1</sup> 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 10. **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_street1	Credit card billing street address as it appears in credit card issuer's records.  <b>FDMS Nashville:</b> 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"><li>■ FDMS Nashville: required if keyed; not used if swiped.</li><li>■ TSYS Acquiring Solutions: required when <b>ccAuthService_billPayment=true</b> and <b>pos_entryMode=keyed</b>.</li><li>■ All other processors: optional.</li></ul>	FDMS Nashville: String (20)  All other processors: String (60)
billTo_street2	Used for additional address information. For example: Attention: Accounts Payable  <b>FDMS Nashville:</b> <b>billTo_street1</b> and <b>billTo_street2</b> together cannot exceed 20 characters.	ccAuthService (O)	FDMS Nashville: String (20)  All other processors: String (60)
card_accountNumber	Customer's credit card number.	ccAuthService: <ul style="list-style-type: none"><li>■ FDMS Nashville: required.</li><li>■ All other processors: required if <b>pos_entryMode=keyed</b>.</li></ul>	FDMS Nashville: String with numbers only (19)  All other processors: String with numbers only (20)

<sup>1</sup> 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 10. **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_cardType	Type of card to authorize. Possible values: <ul style="list-style-type: none"> <li>■ 001: Visa</li> <li>■ 002: Mastercard</li> <li>■ 003: American Express</li> <li>■ 004: Discover</li> <li>■ 005: Diners Club</li> <li>■ 006: Carte Blanche</li> <li>■ 007: JCB</li> </ul>	ccAuthService (Required for Carte Blanche and JCB. Optional for other card types.)  <b>Important</b> 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"> <li>■ 0 (default): CVN service not requested. CyberSource uses this default when you do not include <b>card_cvNumber</b> in the request.</li> <li>■ 1 (default): CVN service requested and supported. CyberSource uses this default when you include <b>card_cvNumber</b> in the request.</li> <li>■ 2: CVN on credit card is illegible.</li> <li>■ 9: CVN not imprinted on credit card.</li> </ul>	ccAuthService: <ul style="list-style-type: none"> <li>■ FDMS Nashville: required for American Express; otherwise, optional.</li> <li>■ TSYS Acquiring Solutions: optional if <b>pos_entryMode= keyed</b>; otherwise, not used.</li> <li>■ All other processors: optional.</li> </ul>	String with numbers only (1)
card_cvNumber	CVN. See CVN information in <a href="#">Credit Card Services User Guide</a> .	ccAuthService: <ul style="list-style-type: none"> <li>■ FDMS Nashville: required for American Express or if swiped; otherwise, optional.</li> <li>■ TSYS Acquiring Solutions: optional if <b>pos_entryMode= keyed</b>; otherwise, not used.</li> <li>■ All other processors: optional.</li> </ul>	String with numbers only (4)

<sup>1</sup> 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 10. **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_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"><li>■ FDMS Nashville: required.</li><li>■ All other processors: required if <b>pos_entryMode=keyed</b>.<sup>1</sup></li></ul>	String (2)
card_expirationYear	Four-digit year in which credit card expires. Format: YYYY.	ccAuthService: <ul style="list-style-type: none"><li>■ FDMS Nashville: required.</li><li>■ All other processors: required if <b>pos_entryMode=keyed</b>.<sup>1</sup></li></ul>	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 <a href="#">Credit Card Services User Guide</a> . Possible values: <ul style="list-style-type: none"><li>■ true: Bill payment or loan payment.</li><li>■ false (default): Not a bill payment or loan payment.</li></ul>	ccAuthService (O)	String (5)
ccAuthService_commerceIndicator	Type of transaction. For a card-present transaction, you must set this field to <code>retail</code> .	ccAuthService (R)	String (13)
ccAuthService_run	Set to <code>true</code> to request credit card authorization.	ccAuthService (R)	String (255)
item_#_productCode	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 <a href="#">Credit Card Services User Guide</a> .  When this field is not set to <code>default</code> or one of the values related to shipping and/or handling, the <b>item_#_quantity</b> , <b>item_#_productName</b> , and <b>item_#_productSKU</b> fields are required. For information about items and grand totals, see <a href="#">Getting Started with CyberSource Essentials</a> .	ccAuthService (O)	String (30)
item_#_productName	Required when <b>item_#_productCode</b> is not <code>default</code> or one of the values related to shipping and/or handling.	ccAuthService (See description)	String (30)

<sup>1</sup> 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 10. **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_#_productSKU	Product identifier code. Required when <b>item_#_productCode</b> is not default or one of the values related to shipping and/or handling.	ccAuthService (See description)	String (15)
item_#_quantity	Default is 1. Required when <b>item_#_productCode</b> is not default 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> <p>1 You include the following items in your request:</p> <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> <p>2 The total amount authorized will be 32.40, not 30.00 with 2.40 of tax included.</p>	ccAuthService (O)	String (15)
item_#_unitPrice	<p>Per-item price of the product. You must include either this field or <b>purchaseTotals_grandTotalAmount</b> in your request. This value cannot be negative. For information about items and grand totals, see <a href="#">Getting Started with CyberSource Essentials</a>.</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)
<p><sup>1</sup> 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 10. <b>Important</b> It is your responsibility to determine whether a field is required for the transaction you are requesting.</p>			

Table 6 General Card-Present Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
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 <a href="#">Getting Started with CyberSource Essentials</a>.</p> <p><b>FDC Nashville Global:</b> 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"> <li>■ N: Card is not present.</li> <li>■ Y: Card is present.</li> </ul>	<p>ccAuthService:</p> <ul style="list-style-type: none"> <li>■ FDMS Nashville: not used.</li> <li>■ All other processors: required.</li> </ul>	String (1)
pos_catLevel	<p>Type of cardholder-activated terminal. Possible values:</p> <ul style="list-style-type: none"> <li>■ 1: Automated dispensing machine</li> <li>■ 2: Self-service terminal</li> <li>■ 3: Limited amount terminal</li> <li>■ 6: Mobile acceptance terminal</li> </ul> <p><b>Chase Paymentech Solutions</b> Only values 1, 2, and 3 are supported.</p> <p><b>GPN</b> Only value 6 is supported.</p> <p><b>TSYS Acquiring Solutions</b> Only value 6 is supported.</p>	<p>ccAuthService:</p> <ul style="list-style-type: none"> <li>■ Chase Paymentech Solutions: required if <b>pos_terminalID</b> is included in the request; otherwise, optional.</li> <li>■ GPN: required.</li> <li>■ TSYS Acquiring Solutions: required for transactions from mobile devices; otherwise, not used.</li> <li>■ All other processors: not used.</li> </ul>	Nonnegative integer (1)
<p><sup>1</sup> 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 10. <b>Important</b> It is your responsibility to determine whether a field is required for the transaction you are requesting.</p>			

**Table 6 General Card-Present Request Fields (Continued)**

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
pos_entryMode	Method of entering credit card information into the POS terminal. Possible values: <ul style="list-style-type: none"> <li>■ keyed: Manually keyed into POS terminal.</li> <li>■ swiped: Read from credit card magnetic stripe.</li> </ul>	ccAuthService (R)	String (11)
pos_terminalCapability	POS terminal's capability. Possible values: <ul style="list-style-type: none"> <li>■ 1: Terminal has a magnetic stripe reader only.</li> <li>■ 2: Terminal has a magnetic stripe reader and manual entry capability.</li> <li>■ 3: Terminal has manual entry capability only.</li> </ul>	ccAuthService: <ul style="list-style-type: none"> <li>■ Chase Paymentech Solutions: required.</li> <li>■ FDC Nashville Global: required.</li> <li>■ FDMS Nashville: required.</li> <li>■ GPN: optional.</li> <li>■ RBS WorldPay Atlanta: optional.</li> <li>■ TSYS Acquiring Solutions: optional.</li> </ul>	Integer (1)

<sup>1</sup> 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 10. **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><b>FDC Nashville Global</b></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"> <li>■ Chase Paymentech Solutions: optional. If you include this field in your request, you must also include <b>pos_catLevel</b>.</li> <li>■ FDC Nashville Global: optional. If not provided, CyberSource uses the value in your CyberSource account.</li> <li>■ FDMS Nashville: CyberSource uses the value in your CyberSource account.</li> <li>■ GPN: not used.</li> <li>■ RBS WorldPay Atlanta: not used.</li> <li>■ TSYS Acquiring Solutions: not used.</li> </ul>	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 <b>pos_terminalID</b> field to identify the main terminal at your retail location. If your retail location has multiple terminals, use this <b>pos_terminalIDAlternate</b> 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"> <li>■ FDC Nashville Global: optional for Mastercard transactions; otherwise, not used.</li> <li>■ All other processors: not used.</li> </ul>	String (8)
purchaseTotals_currency	Currency used for order. For possible values, see <a href="#">ISO Standard Currency Codes</a> .	ccAuthService (R)	String (5)

<sup>1</sup> 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 10. **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 <b>item_#_unitPrice</b> in your request. For information about items and grand totals, see <a href="#">Getting Started with CyberSource Essentials</a> .	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 <a href="#">ISO Standard Country Codes</a> .	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] <b>Example</b> 12345-6789  When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric] <b>Example</b> 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 <a href="#">State, Province, and Territory Codes for the United States and Canada</a> .	ccAuthService (Required if any shipping address information is included in the request and shipping to the U.S. or Canada; otherwise, optional.)	String (2)

<sup>1</sup> 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 10. **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)

<sup>1</sup> 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 10. **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=%B41111111111111111111111111111111^SMITH/BETTY^16121200123456789012**
    XXX*****?*;41111111111111111111=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>%B4111111111111111^SMITH/BETTY^16121200123456789012**XXX*****?*;
      4111111111111111=16121200XXXX0000000?*</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>
```

---