Card-Present Processing
Using the Simple Order API

Supplement to Credit Card Services
Using the Simple Order API
and
PIN Debit Processing
Using the Simple Order API

June 2019
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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  9

Chapter 2  Optional Features  10
  CyberSource Integration  10
  Dynamic Currency Conversion (DCC)  10
  Europay, Mastercard, Visa (EMV)  11
    Apple Pay and Google Pay  14
    EMV Host Validation and Device Certification  14
    EMV Cards and Cardholder Verification Methods (CVMs)  15
    EMV Transactions  16
  Payment Network Tokenization  16
  PCI P2P Encryption with Bluefin  17
    Requirements  17
    Overview  18
    Bluefin P2PE Contact Center  18
    Creating a Request for an Authorization or Stand-Alone Credit That Uses Bluefin PCI P2PE  19
  Relaxed Requirements for Address Data and Expiration Date  19
## Recent Revisions to This Document

<table>
<thead>
<tr>
<th>Release</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2019</td>
<td>CyberSource integrations: added support for the <strong>comments</strong> field. See &quot;General Card-Present Request Fields,&quot; page 29.</td>
</tr>
<tr>
<td>April 2019</td>
<td>This revision contains only editorial changes and no technical updates.</td>
</tr>
<tr>
<td>December 2018</td>
<td>CyberSource integrations:</td>
</tr>
<tr>
<td></td>
<td>- Added new section &quot;CyberSource Integration,&quot; page 10.</td>
</tr>
<tr>
<td></td>
<td>- Added the <strong>pos_terminalType</strong> request field. See &quot;General Card-Present Request Fields,&quot; page 29.</td>
</tr>
<tr>
<td>October 2018</td>
<td>Added support for Credit Mutuel-CIC. See &quot;Supported Processors,&quot; page 8.</td>
</tr>
<tr>
<td></td>
<td>FDC Nashville Global: added information about PIN data decryption. See &quot;EMV Cards and Cardholder Verification Methods (CVMs),&quot; page 15.</td>
</tr>
<tr>
<td>August 2018</td>
<td>All processors that support online PIN transactions: added support for the following PIN data fields. For field descriptions, see &quot;EMV Request Fields,&quot; page 22.</td>
</tr>
<tr>
<td></td>
<td>- <strong>pinDataEncryptedPIN</strong></td>
</tr>
<tr>
<td></td>
<td>- <strong>pinDataKeySerialNumber</strong></td>
</tr>
<tr>
<td></td>
<td>- <strong>pinDataPINblockEncodingFormat</strong></td>
</tr>
</tbody>
</table>
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. Credit Card Services Using the Simple Order API 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.

Note

Information in this guide about Europay, Mastercard, and Visa (EMV) applies to credit card processing and PIN debit processing. All other information in this guide applies only to credit card processing. PIN debit processing is available only on FDC Nashville Global.

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

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
</table>
| **Bold**   | • API field names  
|            | • API service names  
|            | • Graphical user interface elements that you must act upon  |
| **Screen text** | • XML elements  
|            | • Code examples  
|            | • Values for API fields; for example:  
|            | Set the `ccAuthService_run` field to `true`.

Related Documentation

- *Getting Started with CyberSource Advanced for the Simple Order API* (PDF | HTML) describes how to get started using the Simple Order API.

- *Credit Card Services Using the Simple Order API* (PDF | HTML) describes how to integrate CyberSource payment processing services into your business.

- The *CyberSource API Versions page* provides information about the CyberSource API versions.

- *PIN Debit Processing Using the Simple Order API* (PDF | HTML) describes how to integrate CyberSource PIN debit 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](http://www.cybersource.com/support)
Introduction to Card-Present Transactions

This supplement to *Credit Card Services Using the Simple Order API* describes card-present processing with CyberSource.

**Note** Information in this guide about Europay, Mastercard, and Visa (EMV) applies to credit card processing and PIN debit processing. All other information in this guide applies only to credit card processing. PIN debit processing is available only on FDC Nashville Global.

## 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

<table>
<thead>
<tr>
<th>Processor</th>
<th>EMV 1</th>
<th>Magnetic Stripe</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Express Direct—supports card-present</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>processing only for merchants in the U.S. who</td>
<td></td>
<td></td>
</tr>
<tr>
<td>are transacting in U.S. dollars.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chase Paymentech Solutions</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Credit Mutuel-CIC</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FDC Nashville Global</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FDMS Nashville</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>GPN</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>JCN Gateway—Visa is the only card type</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>supported on JCN Gateway for card-present</td>
<td></td>
<td></td>
</tr>
<tr>
<td>transactions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OmniPay Direct—First Data Merchant Solutions</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>(Europe) only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RBS WorldPay Atlanta</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1 For information about EMV support, see "Europay, Mastercard, Visa (EMV),” page 11.
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 Using the Simple Order API. Use the fields in this guide in addition to the fields in Credit Card Services Using the Simple Order API.
Optional Features

CyberSource Integration

Supported Processors:
- American Express Direct
- Credit Mutuel-CIC
- FDC Nashville Global
- OmniPay Direct
- SIX

CyberSource can provide the client software for your POS terminals. The client software sends the CyberSource service requests, parses the information in the CyberSource service replies, and provides information to your POS system. For details, contact your CyberSource account manager.

Dynamic Currency Conversion (DCC)

For information about dynamic currency conversion, see Credit Card Services Using the Simple Order API.
Europay, Mastercard, Visa (EMV)

Information in this guide about EMV applies to credit card processing and PIN debit processing. All other information in this guide applies only to credit card processing. PIN debit processing is available only on FDC Nashville Global.

Services:
- Authorization
- Authorization reversal
- Capture
- Credit
- PIN debit credit—supported only on FDC Nashville Global
- PIN debit purchase—supported only on FDC Nashville Global
- PIN debit reversal—supported only on FDC Nashville Global

Processors:
- American Express Direct
- Chase Paymentech Solutions
- Credit Mutuel-CIC
- FDC Nashville Global
- GPN
- JCN Gateway—Visa card type only
- OmniPay Direct—First Data Merchant Solutions (Europe) only
- SIX
Card Types:

- Contact EMV:

### Table 3  Supported Card Types for Contact Transactions

<table>
<thead>
<tr>
<th>Card Type</th>
<th>American Express Direct</th>
<th>Chase Paymentech Solutions</th>
<th>Credit Mutual/HIC</th>
<th>FDC Nashville Global</th>
<th>GPN</th>
<th>JCN Gateway</th>
<th>OmniPay Direct</th>
<th>SIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Express</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Cartes Bancaires</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>China UnionPay</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Diners Club</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Discover</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>JCB</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Maestro (Int'l)</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Maestro (UK Dom)</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Mastercard</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Visa</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Visa Electron</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Contactless EMV:

Table 4  Supported Card Types for Contactless Transactions

<table>
<thead>
<tr>
<th>Card Type</th>
<th>American Express Direct</th>
<th>Chase Paymentech Solutions</th>
<th>Credit Mutuel-CIC</th>
<th>FDC Nashville Global</th>
<th>GPN</th>
<th>JCN Gateway</th>
<th>OmniPay Direct</th>
<th>SIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Express ExpressPay</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Cartes Bancaires</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>China UnionPay</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Diners Club</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Discover</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>JCB</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Mastercard PayPass</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Visa payWave</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

EMV is a global standard for exchanging information between chip cards and POS terminals. A chip card is a credit or debit card with an embedded microchip. A chip card also has a magnetic stripe on the back of the card that can be used for a back-up transaction when the card’s chip cannot be read. The EMV standards define the protocols for all levels of transmission between chip cards and chip card processing devices: physical, electrical, data, and application.
Apple Pay and Google Pay

CyberSource supports contactless EMV for Apple Pay and Google Pay transactions.

Processors:
- FDC Nashville Global
- OmniPay Direct
- SIX

Card Types:

<table>
<thead>
<tr>
<th>Card Type</th>
<th>FDC Nashville Global</th>
<th>OmniPay Direct</th>
<th>SIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Express</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Discover</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Mastercard</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Visa</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

EMV Host Validation and Device Certification

As a payment services provider, CyberSource uses a two-step process for host validation and device certification for EMV. Both steps must be completed to have a fully certified EMV solution.

1. Host validation: CyberSource obtained host validation for the following processors:
   - American Express Direct
   - Chase Paymentech Solutions
   - Credit Mutuel-CIC
   - FDC Nashville Global
   - GPN
   - JCN Gateway
   - OmniPay Direct—First Data Merchant Solutions (Europe) only
   - SIX
Device certification: CyberSource is working on device certification with Credit Mutuel-CIC, FDC Nashville Global, and SIX.

Before you purchase a device for use with EMV, contact your CyberSource representative.

**EMV Cards and Cardholder Verification Methods (CVMs)**

**Table 6 Processor Support for CVMs**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Chip and PIN</th>
<th>Chip and Online PIN</th>
<th>Chip and Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Express Direct</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Chase Paymentech Solutions</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Credit Mutuel-CIC</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>FDC Nashville Global</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>GPN</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>JCN Gateway</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>OmniPay Direct</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>SIX</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Most chip-and-PIN cards allow a cardholder to provide a signature as a back-up option. Other EMV cards are chip-and-signature cards. For these cards, a signature is the preferred CVM, and a PIN can be used as a back-up option.

**Note**

Chip-and-signature cards are more widespread in the U.S. Chip-and-PIN cards are more widespread outside the U.S.

On FDC Nashville Global, there are two ways to decrypt PIN data:

- With the CyberSource solution, which is the default solution, CyberSource injects the terminal with a fixed key and decrypts the PIN data.
- With the third-party solution, CyberSource sends the encrypted PIN data to a third party who decrypts it and forwards it to the processor on your behalf. To enable third-party PIN data decryption for your CyberSource account, contact CyberSource Customer Support.
EMV Transactions

When you use the Simple Order API in XML format, you must use version 1.86 or later of the XML schema to implement EMV.

Note

EMV transactions are more secure from fraud than are magnetic stripe transactions, which require a visual inspection of the card. Chip-and-PIN cards are more secure from fraud than chip-and-signature cards. When an EMV chip card is used in a POS environment, it generates a cryptogram that changes with each transaction. This dynamic authentication provides an extra layer of security for POS transactions.

For an EMV transaction, use the fields documented in "EMV Request Fields," page 22. The following fields and values are specifically for EMV:

- Request fields: see "EMV Request Fields," page 22.
- Reply fields: see "Reply Fields," page 51.

Values for **pos_entryMode**:
- **contact**: Read from direct contact with chip card.
- **contactless**: Read from a contactless interface using chip data.
- **msd**: Read from a contactless interface using magnetic stripe data (MSD). The **msd** value is not supported on OmniPay Direct.

Values for **pos_terminalCapability**:
- **4**: Terminal can read chip cards.
- **5**: Terminal can read contactless chip cards.

Payment Network Tokenization

Payment network tokenization enables you to request a credit card authorization with a token instead of a primary account number (PAN). For information about adding payment network tokenization to an order management system that already uses CyberSource credit card services, see *Payment Network Tokenization Using the Simple Order API*. 
PCI P2P Encryption with Bluefin

Services:
- Authorization
- Stand-alone credit

Processors:
CyberSource supports this feature for all processors that are supported for card-present transactions. See "Supported Processors," page 8.

Device:
- ID TECH SREDKey PCI Key Pad with Encrypted MagStripe Reader

---

**Important**

You must use a device that meets the following requirements:
- Is provided by Bluefin Payment Systems unless otherwise agreed to by CyberSource and Bluefin
- Is injected with encryption keys for the CyberSource payment card industry (PCI) point-to-point encryption (P2PE) solution, which is powered by Bluefin

You must have separate devices for sandbox testing and production.

Requirements

You must have a contractual relationship with Bluefin Payment Systems for PCI-validated P2PE services, which include:
- Key injection
- Decryption, which is performed by CyberSource
- Hardware

You must manage your Bluefin devices through the Bluefin P2PE Manager portal, which enables you to:
- Track device shipments
- Deploy or terminate devices
- Manage users and administrators
- View P2PE transactions
- Download and export reports for PCI compliance

---

**Note**

Do not use terminal configuration #3 or #5, which causes the device to prompt you for the cardholder’s street address. To include the cardholder’s street address in your order management system, include the CyberSource API field for the billing street address in your request to CyberSource.
Overview

The CyberSource PCI P2PE solution, which is powered by Bluefin, does the following:

- Safeguards card data at the terminal hardware level
- Reduces your PCI burden by minimizing the number of PCI audit questions to which you must respond
- Provides device life cycle management through the Bluefin P2PE Manager portal
- Supports magnetic stripe read (MSR) and manual key entry

The following diagram illustrates the steps in a transaction that uses encryption:

1. When a customer swipes a card through the Bluefin device, the device encrypts the card details at the hardware level and in accordance with PCI P2PE standards. The device sends the encrypted payload to your order management system.

2. Your order management system sends the encrypted payload to CyberSource in an authorization request or stand-alone credit request.

3. CyberSource sends the encrypted payload to Bluefin to be decrypted and parsed. Bluefin sends the decrypted data to CyberSource over a secure channel.

4. CyberSource sends the decrypted data and additional transaction information to your processor.

Bluefin P2PE Contact Center

The Bluefin P2PE Contact Center solution is supported on the Virtual Terminal in the CyberSource Business Center. For details, see the Business Center Overview.
Creating a Request for an Authorization or Stand-Alone Credit That Uses Bluefin PCI P2PE

When using the Simple Order API in XML format, you must use version 1.132 or later of the XML schema to use Bluefin P2PE encryption.

For examples that use Bluefin PCI P2PE, see:
- Name-value pair examples: "Authorization Using Bluefin PCI P2PE," page 68

Step 1 Include the following fields in the request:
- encryptedPayment_data
- encryptedPayment_descriptor

These fields are described in "P2PE Request Fields," page 51.

Step 2 Include general card-present request fields in the request as needed. See "General Card-Present Request Fields," page 29.

Step 3 Follow instructions in Credit Card Services Using the Simple Order API for creating an authorization request or stand-alone credit request.

Important Most of the fields that are normally required for an authorization request or stand-alone credit request are not required for a Bluefin PCI P2PE request because the encrypted data includes most of the required data.

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.
API Fields

Important

When you send an authorization, authorization reversal, capture, or credit request that includes card-present data, you must include the basic fields required for every authorization, authorization reversal, capture, or credit request. For information about card-not-present fields required for these requests, see Credit Card Services Using the Simple Order API.

XML Schema Versions

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

Table 7 Simple Order API XML Schema Versions for Card-Present Transactions

<table>
<thead>
<tr>
<th>Processor</th>
<th>Version for Clear Text Transactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Express Direct</td>
<td>1.138 or later</td>
</tr>
<tr>
<td>Chase Paymetech Solutions</td>
<td>1.25 or later</td>
</tr>
<tr>
<td>Credit Mutuel-CIC</td>
<td>1.151 or later</td>
</tr>
<tr>
<td>FDC Nashville Global</td>
<td>1.24 or later</td>
</tr>
<tr>
<td>FDMS Nashville</td>
<td>1.29 or later</td>
</tr>
<tr>
<td>GPN</td>
<td>1.26 or later</td>
</tr>
<tr>
<td>JCN Gateway</td>
<td>1.26 or later</td>
</tr>
<tr>
<td>OmniPay Direct</td>
<td>1.25 or later</td>
</tr>
<tr>
<td>RBS WorldPay Atlanta</td>
<td>1.48 or later</td>
</tr>
<tr>
<td>SIX</td>
<td>1.138 or later</td>
</tr>
<tr>
<td>TSYS Acquiring Solutions</td>
<td>1.13 or later</td>
</tr>
<tr>
<td>Worldpay VAP—Worldpay VAP</td>
<td>1.58 or later</td>
</tr>
</tbody>
</table>

Worldpay VAP—Worldpay VAP was previously called Litle.
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.

Table 8  Data Type Definitions

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integer</td>
<td>Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}</td>
</tr>
<tr>
<td>String</td>
<td>Sequence of letters, numbers, spaces, and special characters</td>
</tr>
</tbody>
</table>
## EMV Request Fields

### Table 9  EMV Request Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| ccAuthService_ cardholderVerification Method | Method that was used to verify the cardholder's identity. See "Europay, Mastercard, Visa (EMV)," page 11. Possible values:  
  - 0: No verification  
  - 1: Signature  
  - 2: PIN  
  This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10. | ccAuthService (R for successful EMV transactions and EMV fallback transactions) | Integer (1) |
| emvRequest_ cardSequenceNumber   | Number assigned to a specific card when two or more cards are associated with the same primary account number. This value enables issuers to distinguish among multiple cards that are linked to the same account. This value can also act as a tracking tool when the issuer reissues cards. When this value is available, it is provided by the chip reader. When the chip reader does not provide this value, do not include this field in your request. See "Europay, Mastercard, Visa (EMV)," page 11. | ccAuthService (O)  
  pinDebitCreditService (O)  
  pinDebitPurchase Service (O)  
  **Note** The PIN debit services are supported only on FDC Nashville Global.  
  All other processors: String with numbers only (2) | American Express Direct: String with numbers only (2) |

**Note** Information in this guide about EMV applies to credit card processing and PIN debit processing. All other information in this guide applies only to credit card processing. PIN debit processing is available only on FDC Nashville Global.
### Table 9  EMV Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| emvRequest_combinedTags | EMV data that is transmitted from the chip card to the issuer and from the issuer to the chip card. The EMV data is in the tag-length-value format and includes chip card tags, terminal tags, and transaction detail tags. See "Europay, Mastercard, Visa (EMV)," page 11. For information about the individual tags, see the “Application Specification” section in the EMV 4.3 Specifications: http://emvco.com Important The following tags contain sensitive information and must not be included in this field:  
56: Track 1 equivalent data  
57: Track 2 equivalent data  
5A: Application PAN  
5F20: Cardholder name  
5F24: Application expiration date  
99: Transaction PIN  
9F0B: Cardholder name (extended)  
9F1F: Track 1 discretionary data  
9F20: Track 2 discretionary data For information about the individual tags, see the “Application Specification” section in the EMV 4.3 Specifications: http://emvco.com For captures, this field is required for contact EMV transactions. Otherwise, it is optional. For credits, this field is required for contact EMV stand-alone credits and contactless EMV stand-alone credits. Otherwise, it is optional. Important For contact EMV captures, contact EMV stand-alone credits, and contactless EMV stand-alone credits, you must include the following tags in this field. For all other types of EMV transactions, the following tags are optional.  
95: Terminal verification results  
9F10: Issuer application data  
9F26: Application cryptogram Note Information in this guide about EMV applies to credit card processing and PIN debit processing. All other information in this guide applies only to credit card processing. PIN debit processing is available only on FDC Nashville Global. |
|                        | ccAuthService (O)  
|                        | ccAuthReversalService (O)  
|                        | ccCaptureService (See description)  
|                        | ccCreditService (See description)  
|                        | pinDebitCreditService (O)  
|                        | pinDebitPurchase Service (O)  
|                        | pinDebitReversal Service (O) Note The PIN debit services are supported only on FDC Nashville Global. |
|                        | JCN Gateway: 199 bytes  
<p>|                        | All other processors: String (999)     |</p>
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>emvRequest_combinedTags (continued)</td>
<td><strong>JCN Gateway</strong>&lt;br&gt;The following tags must be included:&lt;br&gt; ■ 4F: Application identifier&lt;br&gt; ■ 84: Dedicated file name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>emvRequestFallback</td>
<td>Indicates that a fallback method was used to enter credit card information into the POS terminal. When a technical problem prevents a successful exchange of information between a chip card and a chip-capable terminal:&lt;br&gt; 1 Swipe the card or key the credit card information into the POS terminal.&lt;br&gt; 2 Use the <strong>pos_entryMode</strong> field to indicate whether the information was swiped or keyed.&lt;br&gt;See &quot;Europay, Mastercard, Visa (EMV),&quot; page 11. Possible values:&lt;br&gt; ■ true: Fallback method was used.&lt;br&gt; ■ false (default): Fallback method was not used.&lt;br&gt;This field is supported only on American Express Direct, Chase Paymentech Solutions, FDC Nashville Global, GPN, JCN Gateway, OmniPay Direct, and SIX.</td>
<td>ccAuthService (O)&lt;br&gt;ccCreditService (O)</td>
<td>String (5)</td>
</tr>
</tbody>
</table>
Table 9  EMV Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| emvRequest_fallbackCondition  | Reason for the EMV fallback transaction. An EMV fallback transaction occurs when an EMV transaction fails for one of these reasons:  
- Technical failure: the EMV terminal or EMV card cannot read and process chip data.  
- Empty candidate list failure: the EMV terminal does not have any applications in common with the EMV card. EMV terminals are coded to determine whether the terminal and EMV card have any applications in common. EMV terminals provide this information to you.  
See "Europay, Mastercard, Visa (EMV)," page 11. Possible values:  
- 1: Transaction was initiated with information from a magnetic stripe, and the previous transaction at the EMV terminal either used information from a successful chip read or it was not a chip transaction.  
- 2: Transaction was initiated with information from a magnetic stripe, and the previous transaction at the EMV terminal was an EMV fallback transaction because the attempted chip read was unsuccessful.  
This field is supported only on GPN and JCN Gateway. | ccAuthService (R with all card types for an EMV fallback transaction that occurs when an EMV transaction fails for a technical reason; otherwise, not used.) ccCaptureService (R for a forced capture with Visa for an EMV fallback transaction that occurs when an EMV transaction fails for a technical reason; otherwise, not used.) ccCreditService (R for a stand-alone credit with Visa for an EMV fallback transaction that occurs when an EMV transaction fails for a technical reason; otherwise, not used.) | String (1) |
| pinDataEncryptedPIN           | Encrypted PIN. The entity that injected the PIN encryption keys into the terminal creates this value.  
This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10, and only for processors that support chip and online PIN transactions as indicated in Table 6, "Processor Support for CVMs," on page 15. | ccAuthService (R for online PIN transactions) | String (16) |
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pinDataKeySerial Number</strong></td>
<td>Combination of the POS terminal's unique identifier and a transaction counter that is used when decrypting the encrypted PIN. The entity that injected the PIN encryption keys into the terminal decrypts the encrypted PIN and creates this value. This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10, and only for processors that support chip and online PIN transactions as indicated in Table 6, &quot;Processor Support for CVMs,&quot; on page 15.</td>
<td>ccAuthService (R for online PIN transactions)</td>
<td>String (20)</td>
</tr>
</tbody>
</table>
| **pinDataPINblock EncodingFormat** | Format that is used to encode the PIN block. Possible values:  
  - 0: ISO 9564 format 0  
  - 1: ISO 9564 format 1  
  - 2: ISO 9564 format 2  
  - 3: ISO 9564 format 3  
  This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10, and only for processors that support chip and online PIN transactions as indicated in Table 6, "Processor Support for CVMs," on page 15. | cc AuthService (R for online PIN transactions) | Integer (1)                      |
Table 9  EMV Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>pos_environment</td>
<td>Operating environment. Possible values for all card types except Mastercard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 0: No terminal used or unknown environment.</td>
<td></td>
<td>ccAuthService (O)</td>
</tr>
<tr>
<td></td>
<td>- 1: On merchant premises, attended.</td>
<td></td>
<td>String (1)</td>
</tr>
<tr>
<td></td>
<td>- 2: On merchant premises, unattended. Examples: oil, kiosks, self-checkout,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>mobile telephone, personal digital assistant (PDA).</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 3: Off merchant premises, attended. Examples: portable POS devices at trade</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>shows, at service calls, or in taxis.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 4: Off merchant premises, unattended. Examples: vending machines, home</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>computer, mobile telephone, PDA.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 5: On premises of cardholder, unattended.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 9: Unknown delivery mode.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- S: Electronic delivery of product. Examples: music, software, or eTickets</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>that are downloaded over the internet.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- T: Physical delivery of product. Examples: music or software that is</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>delivered by mail or by a courier.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Possible values for Mastercard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 4: Off merchant premises, unattended, or cardholder terminal. Examples:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>vending machines.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This field is supported only on American Express Direct.
# Clear Text Request Fields

## Table 10  Clear Text Request Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| pos_trackData  | Card’s track 1 and 2 data. For all processors except FDMS Nashville, this value consists of one of the following:  
  - Track 1 data  
  - Track 2 data  
  - Data for both tracks 1 and 2  
  For FDMS Nashville, this value consists of one of the following:  
  - Track 1 data  
  - Data for both tracks 1 and 2  
  **Example** %B4111111111111111^SMITH/JOHN ^1612101976110000868000000?;4111111111111111=16121019761186800000? | ccAuthService:  
  - Chase Paymentech Solutions, Credit Mutuel-CIC, FDC Nashville Global, JCN Gateway, OmniPay Direct, and SIX: required if pos_entryMode=contact, contactless, msd, or swiped; otherwise, not used.  
  - All other processors: required if pos_entryMode=swiped; otherwise, not used. | String (119) |
# General Card-Present Request Fields

## Table 11 General Card-Present Request Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_city</td>
<td>Credit card billing city.</td>
<td>ccAuthService:</td>
<td>String (50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chase Paymentech Solutions: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Credit Mutuel-CIC: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- OmniPay Direct: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- SIX: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- TSYS Acquiring Solutions: required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>when <code>ccAuthService_billPayment=true</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and <code>pos_entryMode=keyed</code>.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Worldpay VAP: optional. (Worldpay</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VAP was previously called <em>Litle.</em>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- All other processors: not used.</td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11 General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_country</td>
<td>Credit card billing country. Use the two-character <em>ISO Standard Country Codes.</em></td>
<td>ccAuthService:</td>
<td>String (2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chase Paymentech Solutions: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Credit Mutuel-CIC: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- OmniPay Direct: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- SIX: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- TSYS Acquiring Solutions: required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>when ccAuthService_billPayment=true</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and pos_entryMode=keyed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Worldpay VAP: optional. (Worldpay</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VAP was previously called <em>Litle.</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- All other processors: not used.</td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_email</td>
<td>Customer’s email address, including full domain name. Format: <a href="mailto:name@host.domain">name@host.domain</a></td>
<td>ccAuthService:</td>
<td>String (255)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ Chase Paymentech Solutions: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ Credit Mutuel-CIC: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ OmniPay Direct: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ SIX: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ TSYS Acquiring Solutions: required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>when ccAuthService_billPayment=true</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and pos_entryMode=keyed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ Worldpay VAP: optional. (Worldpay</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VAP was previously called Litle.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ All other processors: not used.</td>
<td></td>
</tr>
</tbody>
</table>

---

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_firstName</td>
<td>Customer’s first name. Value should match value on card.</td>
<td>ccAuthService:</td>
<td>String (60)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chase Paymentech Solutions: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Credit Mutuel-CIC: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- OmniPay Direct: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- SIX: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- TSYS Acquiring Solutions: required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>when ccAuthService_billPayment=true</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and pos_entryMode=keyed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Worldpay VAP: optional. (Worldpay</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VAP was previously called Litle.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- All other processors: not used.</td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11 General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_lastName</td>
<td>Customer’s last name. Value should match value on card.</td>
<td>ccAuthService:</td>
<td>String (60)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chase Paymentech Solutions: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Credit Mutuel-CIC: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- OmniPay Direct: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- RBS WorldPay Atlanta: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- SIX: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- TSYS Acquiring Solutions: required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>when ccAuthService_billPayment=true</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and pos_entryMode=keyed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Worldpay VAP: optional. (Worldpay</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VAP was previously called Litle.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- All other processors: not used.</td>
<td></td>
</tr>
<tr>
<td>billTo_phoneNumber</td>
<td>Customer’s phone number. CyberSource recommends that you include the</td>
<td>ccAuthService:</td>
<td>String (15)</td>
</tr>
<tr>
<td></td>
<td>country code when order is from outside the U.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chase Paymentech Solutions: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Credit Mutuel-CIC: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- OmniPay Direct: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- SIX: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- TSYS Acquiring Solutions: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Worldpay VAP: optional. (Worldpay VAP was previously called Litle.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- All other processors: not used.</td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_postalCode</td>
<td>Postal code for billing address. Postal code must consist of 5 to 9 digits.</td>
<td>ccAuthService:</td>
<td>String (10)</td>
</tr>
<tr>
<td></td>
<td>When the billing country is U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Example</strong> 12345-6789</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha] [numeric]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Example</strong> A1B 2C3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Appendix A  
#### API Fields

Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_state</td>
<td>Credit card billing state or province. Use State, Province, and Territory Codes for the United States and Canada.</td>
<td>ccAuthService:</td>
<td>String (2)</td>
</tr>
<tr>
<td></td>
<td>- Chase Paymentech Solutions: optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Credit Mutuel-CIC: optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- OmniPay Direct: optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- SIX: optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Worldpay VAP: optional. (Worldpay VAP was previously called Litle.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- All other processors: not used.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>billTo_street1</td>
<td>Credit card billing street address as it appears in credit card issuer's records.</td>
<td>ccAuthService:</td>
<td>FDMS Nashville:</td>
</tr>
<tr>
<td></td>
<td>- FDMS Nashville: required if keyed; not used if swiped.</td>
<td>FDMS Nashville:</td>
<td>String (20)</td>
</tr>
<tr>
<td></td>
<td>- TSYS Acquiring Solutions: required when ccAuthService_billPayment=true and pos_entryMode=keyed.</td>
<td>All other processors:</td>
<td>String (60)</td>
</tr>
<tr>
<td></td>
<td>- All other processors: optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>billTo_street2</td>
<td>Used for additional address information. For example: Attention: Accounts Payable</td>
<td>ccAuthService (O)</td>
<td>FDMS Nashville:</td>
</tr>
<tr>
<td></td>
<td>- FDMS Nashville: required if keyed; not used if swiped.</td>
<td>FDMS Nashville:</td>
<td>String (20)</td>
</tr>
<tr>
<td></td>
<td>- All other processors: optional.</td>
<td>All other processors:</td>
<td>String (60)</td>
</tr>
<tr>
<td></td>
<td>- BillTo_street1 and billTo_street2 together cannot exceed 20 characters.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>card_accountNumber</td>
<td>Customer’s credit card number.</td>
<td>ccAuthService:</td>
<td>FDMS Nashville: String with numbers only (19)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FDMS Nashville: required.</td>
<td>All other processors: String with numbers only (20)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FDMS Nashville: required if pos_entryMode=keyed.</td>
<td></td>
</tr>
<tr>
<td>card_cardType</td>
<td>Three-digit value that indicates the card type. For the possible values, see Appendix D, &quot;Card Types,&quot; on page 88.</td>
<td>ccAuthService (Required for Carte Blanche and JCB. Optional for other card types.)</td>
<td>String (3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Important</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>card_cvIndicator</td>
<td>Indicates whether a CVN code was sent. Possible values:</td>
<td>ccAuthService:</td>
<td>String with numbers only (1)</td>
</tr>
<tr>
<td></td>
<td>0 (default): CVN service not requested. CyberSource uses this default when you do not include card_cvNumber in the request.</td>
<td>FDMS Nashville: required for American Express; otherwise, optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 (default): CVN service requested and supported. CyberSource uses this default when you include card_cvNumber in the request.</td>
<td>TSYS Acquiring Solutions: optional if pos_entryMode=keyed; otherwise, not used.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2: CVN on credit card is illegible.</td>
<td>All other processors: optional.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9: CVN not imprinted on credit card.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
## General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>card_cvNumber</td>
<td>CVN. See CVN information in <em>Credit Card Services Using the Simple Order API</em>.</td>
<td>ccAuthService:</td>
<td>String with numbers only (4)</td>
</tr>
<tr>
<td></td>
<td>- FDMS Nashville: required for American Express or if swiped; otherwise, optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- TSYS Acquiring Solutions: optional if <code>pos_entryMode</code>=keyed; otherwise, not used.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- All other processors: optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>card_expirationMonth</td>
<td>Two-digit month in which credit card expires. Format: MM. Possible values: 01 through 12. Leading 0 is required.</td>
<td>ccAuthService:</td>
<td>String (2)</td>
</tr>
<tr>
<td></td>
<td>- FDMS Nashville: required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- All other processors: required if <code>pos_entryMode</code>=keyed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>card_expirationYear</td>
<td>Four-digit year in which credit card expires. Format: YYYY.</td>
<td>ccAuthService:</td>
<td>String (4)</td>
</tr>
<tr>
<td></td>
<td>- FDMS Nashville: required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- All other processors: required if <code>pos_entryMode</code>=keyed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ccAuthService_billPayment</td>
<td>Indicates payment for bill or payment towards existing contractual loan. For information about Visa Bill Payments and Visa Debt Repayments, see <em>Credit Card Services Using the Simple Order API</em>. Possible values:</td>
<td>ccAuthService (O)</td>
<td>String (5)</td>
</tr>
<tr>
<td></td>
<td>- <code>true</code>: Bill payment or loan payment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <code>false</code> (default): Not a bill payment or loan payment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ccAuthService_commerceIndicator</td>
<td>Type of transaction. For a card-present transaction, you must set this field to <code>retail</code>.</td>
<td>ccAuthService (R)</td>
<td>String (13)</td>
</tr>
<tr>
<td>ccAuthService_run</td>
<td>Set to <code>true</code> to request credit card authorization.</td>
<td>ccAuthService (R)</td>
<td>String (255)</td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
Table 11  General Card-Present Request Fields (Continued)

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<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By:</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| comments        | Brief description or comments for the order.  
|                 | CyberSource does not forward this value to the processor. Instead, the value is forwarded to the CyberSource reporting software.  
|                 | This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10. | ccAuthService (O) | 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 default. For a list of valid values, see the information about product codes in Credit Card Services Using the Simple Order API.  
|                 | When this field is not set to default 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 Advanced for the Simple Order API. | ccAuthService (O) | String (30)       |
| item_#_productName | Required when item_#_productCode is not default 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 default 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 default or one of the values related to shipping and/or handling. | ccAuthService (See description) | Integer (10)      |

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### Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| item_#_taxAmount    | 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. The tax amount field is additive. The following example uses a two-exponent currency such as USD:  
1 You include the following items in your request:
  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
2 The total amount authorized will be 32.40, not 30.00 with 2.40 of tax included.  
If you want to include item_#_taxAmount and also request the taxService service, see Tax Calculation Service Using the Simple Order API. | ccAuthService (O)                          | String (15)                           |
| item_#_unitPrice    | 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 Advanced for the Simple Order API.  
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. | ccAuthService (See description)         | For GPN and JCN Gateway: 
  String (10)  
  All other processors: String (15) |
| jpo_jccaTerminalID  | Unique Japan Credit Card Association (JCCA) terminal identifier that is provided by CyberSource.  
The difference between this field and the pos_terminalID field is that you can define pos_terminalID, but jpo_jccaTerminalID is defined by the JCCA and is used only in Japan.  
This field is supported only on JCN Gateway. | ccAuthService (O)                          | Integer (13)                           |

---

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<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>jpo_jis2TrackData</td>
<td>Japanese Industrial Standard Type 2 (JIS2) track data from the front of the card. This field is supported only on JCN Gateway.</td>
<td>ccAuthService (O) ccCreditService (O)</td>
<td>String (69)</td>
</tr>
</tbody>
</table>
| merchandiseCode        | Identifier for the merchandise. This field is supported only on the processors listed in this field description.  
**American Express Direct**  
Value:  
- 1000: Gift card  
**JCN Gateway**  
This value must be right justified. In Japan, this value is called a goods code. | ccAuthService (O) | Integer (7) |
| merchantID             | Your CyberSource merchant ID.                                                                    | ccAuthService (R)                     | String (30)        |
| merchantReferenceCode  | 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 Advanced for the Simple Order API.  
**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. | ccAuthService (R) | String (50) |

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<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>partnerOriginal TransactionID</td>
<td>Value that links the previous transaction to the current follow-on request. This value is assigned by the client software that is installed on the POS terminal, which makes it available to the terminal’s software and to CyberSource. Therefore, you can use this value to reconcile transactions between CyberSource and the terminal’s software. CyberSource does not forward this value to the processor. Instead, the value is forwarded to the CyberSource reporting software. This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10.</td>
<td>ccAuthService (O) ccAuthReversalService (O) ccCaptureService (O) ccCreditService (O)</td>
<td>String (32)</td>
</tr>
<tr>
<td>partnerSDKversion</td>
<td>Version of the software installed on the POS terminal. CyberSource does not forward this value to the processor. Instead, the value is forwarded to the CyberSource reporting software. This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10.</td>
<td>ccAuthService (O) ccCreditService (O)</td>
<td>String (32)</td>
</tr>
</tbody>
</table>
| pos_cardPresent | Indicates whether the card is present at the time of the transaction. Possible values:  
  - N: Card is not present.  
  - Y: Card is present. | ccAuthService:  
  - FDMS Nashville: not used.  
  - All other processors: required. | String (1) |

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<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>pos_catLevel</td>
<td>Type of cardholder-activated terminal. Possible values:</td>
<td>ccAuthService:</td>
<td>Nonnegative integer (1)</td>
</tr>
<tr>
<td></td>
<td>- 1: Automated dispensing machine</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 2: Self-service terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 3: Limited amount terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 4: In-flight commerce (IFC) terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 5: Radio frequency device</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 6: Mobile acceptance terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 7: Electronic cash register</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 8: E-commerce device at your location</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 9: Terminal or cash register that uses a dial-up connection to connect to the transaction processing network</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Chase Paymentech Solutions</strong></td>
<td>ccAuthService:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Only values 1, 2, and 3 are supported.</td>
<td>FDC Nashville Global:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>FDC Nashville Global</strong></td>
<td>Only values 7, 8, and 9 are supported.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>GPN</strong></td>
<td>ccAuthService (O)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Only values 6, 7, 8, and 9 are supported.</td>
<td>JCN Gateway:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>JCN Gateway</strong></td>
<td>TSYS Acquiring Solutions:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Only values 6, 7, 8, and 9 are supported.</td>
<td>Only value 6 is supported.</td>
<td></td>
</tr>
<tr>
<td>pos_deviceID</td>
<td>Value created by the client software that uniquely identifies the POS device.</td>
<td>ccAuthService (O)</td>
<td>String (32)</td>
</tr>
<tr>
<td></td>
<td>CyberSource does not forward this value to the processor. Instead, the value is forwarded to the CyberSource reporting software.</td>
<td>ccCreditService (O)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Table 11  General Card-Present Request Fields (Continued)

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<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>pos_entryMode</td>
<td>Method of entering credit card information into the POS terminal. Possible values:</td>
<td>ccAuthService (R)</td>
<td>String (11)</td>
</tr>
<tr>
<td></td>
<td>- contact: Read from direct contact with chip card.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- contactless: Read from a contactless interface using chip data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- keyed: Manually keyed into POS terminal. Possible values:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- msd: Read from a contactless interface using magnetic stripe data (MSD). This value is not supported on OmniPay Direct.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- swiped: Read from credit card magnetic stripe.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The contact, contactless, and msd values are supported only for EMV transactions. See &quot;Europay, Mastercard, Visa (EMV),&quot; page 11.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pos_storeAndForward</td>
<td>When connectivity is unavailable, the client software that is installed on the POS terminal can store a transaction in its memory and send it for authorization when connectivity is restored.</td>
<td>ccAuthService (O)</td>
<td>String (5)</td>
</tr>
<tr>
<td>Indictor</td>
<td>CyberSource does not forward this value to the processor. Instead, the value is forwarded to the CyberSource reporting software.</td>
<td>ccCreditService (O)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Possible values:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- true: Transaction was stored and then forwarded.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- false (default): Transaction was not stored and then forwarded.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10, but is not supported for Credit Mutuel-CIC.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>pos_terminalCapability</td>
<td>POS terminal’s capability. Possible values:</td>
<td>ccAuthService:</td>
<td>Integer (1)</td>
</tr>
<tr>
<td></td>
<td>▪ 1: Terminal has a magnetic stripe reader only.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 2: Terminal has a magnetic stripe reader and manual entry capability.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 3: Terminal has manual entry capability only.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 4: Terminal can read chip cards.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 5: Terminal can read contactless chip cards.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The values of 4 and 5 are supported only for EMV transactions. See &quot;Europay, Mastercard, Visa (EMV),&quot; page 11.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pos_terminalCardCapture</td>
<td>Indicates whether the terminal can capture the card. Possible values:</td>
<td>ccAuthService (O)</td>
<td>String (5)</td>
</tr>
<tr>
<td>Capability</td>
<td>▪ 1: Terminal can capture card.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 0: Terminal cannot capture card.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10, but is not supported for FDC Nashville Global or SIX.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| pos_terminalCVMcapabilities_# | Complete list of cardholder verification methods (CVMs) supported by the terminal. Possible values:  
  - PIN  
  - Signature  
  This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10. | ccAuthService (O)  
ccCreditService (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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>pos_terminalID</td>
<td>Identifier for the terminal at your retail location. You can define this value yourself, but consult the processor for requirements.&lt;br&gt;&lt;br&gt;&lt;em&gt;FDC Nashville Global&lt;/em&gt;&lt;br&gt;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.</td>
<td>ccAuthService:&lt;br&gt;- For the following processors, this field is optional. If not provided, CyberSource uses the value in your CyberSource account.&lt;br&gt;  - American Express Direct&lt;br&gt;  - Credit Mutuel-CIC&lt;br&gt;  - FDC Nashville Global&lt;br&gt;  - SIX&lt;br&gt;- Chase Paymentech Solutions: optional. If you include this field in your request, you must also include pos_catLevel.&lt;br&gt;- FDMS Nashville: CyberSource uses the value in your CyberSource account.&lt;br&gt;- OmniPay Direct: optional.&lt;br&gt;- For the following processors, this field is not used.&lt;br&gt;  - GPN&lt;br&gt;  - JCN Gateway&lt;br&gt;  - RBS WorldPay Atlanta&lt;br&gt;  - TSYS Acquiring Solutions&lt;br&gt;  - Worldpay VAP (Worldpay VAP was previously called Litle.)</td>
<td>String (8)</td>
</tr>
</tbody>
</table>

---

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| pos_terminalIDAlternate | Identifier for an alternate terminal at your retail location. You define the value for this field. 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. This field is a pass-through, which means that CyberSource does not check the value or modify the value in any way before sending it to the processor. | ccAuthService:  
  - FDC Nashville Global: optional for Mastercard transactions; otherwise, not used.  
  - All other processors: not used.                                                                                                                            | String (8)         |
| pos_terminalInputCapabilities_# | Complete list of card input methods supported by the terminal. Possible values:  
  - Keyed: Terminal can accept card data that is entered manually.  
  - Swiped: Terminal can accept card data from a magnetic stripe reader.  
  - Contact: Terminal can accept card data in EMV contact mode.  
  - Contactless: Terminal can accept card data in EMV contactless mode.  
  - BarCode: Terminal can read bar codes.  
  - QRcode: Terminal can read QR codes.  
  - OCR: Terminal can perform optical character recognition (OCR).  
  This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10. | ccAuthService (O) ccCreditService (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 19. Important It is your responsibility to determine whether a field is required for the transaction you are requesting.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>pos_terminalOutput</td>
<td>Indicates whether the terminal can print or display messages. Possible values:</td>
<td>ccAuthService (O) ccCreditService (O)</td>
<td>String (1)</td>
</tr>
<tr>
<td></td>
<td>- 1: Neither</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 2: Print only</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 3: Display only</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 4: Print and display</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pos_terminalPINcapability</td>
<td>Maximum PIN length that the terminal can capture. Possible values:</td>
<td>ccAuthService (R for PIN transactions) ccCreditService (R for PIN transactions)</td>
<td>Integer (2)</td>
</tr>
<tr>
<td></td>
<td>- 0: No PIN capture capability</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 1: PIN capture capability unknown</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 4: Four characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 5: Five characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 6: Six characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 7: Seven characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 8: Eight characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 9: Nine characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 10: Ten characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 11: Eleven characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 12: Twelve characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10, but is not supported on FDC Nashville Global.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pos_terminalSerialNumber</td>
<td>Terminal serial number assigned by the hardware manufacturer.</td>
<td>ccAuthService (O) ccCreditService (O)</td>
<td>String (32)</td>
</tr>
<tr>
<td></td>
<td>CyberSource does not forward this value to the processor. Instead, the value is forwarded to the CyberSource reporting software.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11 General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>pos_terminalType</td>
<td>Type of terminal. Possible values:</td>
<td>ccAuthService (O)</td>
<td>String (2)</td>
</tr>
<tr>
<td></td>
<td>- <strong>21</strong>: Attended terminal, online only</td>
<td>ccAuthReversalService (O)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <strong>22</strong>: Attended terminal, offline with online capability</td>
<td>ccCreditService (O)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <strong>23</strong>: Attended terminal, offline only</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <strong>24</strong>: Unattended terminal, online only</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <strong>25</strong>: Unattended terminal, offline with online capability</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <strong>26</strong>: Unattended terminal, offline only</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>purchaseTotals_currency</td>
<td>Currency used for order. For possible values, see ISO Standard Currency Codes.</td>
<td>ccAuthService (R)</td>
<td>String (5)</td>
</tr>
<tr>
<td>purchaseTotals_grandTotalAmount</td>
<td>Grand total for the order. You must include either this field or item_#_unitPrice in your request. For information about items and grand totals, Getting Started with CyberSource Advanced for the Simple Order API.</td>
<td>ccAuthService (See description)</td>
<td>String (15)</td>
</tr>
<tr>
<td>salesSlipNumber</td>
<td>Transaction identifier that you generate. If you do not include this field in your request, CyberSource generates this value for you. This field is supported only on JCN Gateway.</td>
<td>ccAuthService (O)</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>shipTo_city</td>
<td>City of shipping address.</td>
<td>ccAuthService (Required if any shipping address information is included in the request and shipping to the U.S. or Canada; otherwise, optional.)</td>
<td>String (50)</td>
</tr>
<tr>
<td>shipTo_country</td>
<td>Country of shipping address. Use the two-character ISO Standard Country Codes.</td>
<td>ccAuthService (Required if any shipping address information is included in the request; otherwise, optional.)</td>
<td>String (2)</td>
</tr>
<tr>
<td>shipTo_firstName</td>
<td>First name of the person receiving the shipment.</td>
<td>ccAuthService (O)</td>
<td>String (60)</td>
</tr>
<tr>
<td>shipTo_lastName</td>
<td>Last name of the person receiving the shipment.</td>
<td>ccAuthService (O)</td>
<td>String (60)</td>
</tr>
</tbody>
</table>

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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 11  General Card-Present Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| 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) |
| 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   | Date and time at your physical location. Format: YYYYMMDDhhmmss, where YYYY = year  
MM = month  
DD = day  
hh = hour  
mm = minutes  
ss = seconds | ccAuthService:  
- For the following processors, this field is required:  
  - American Express Direct  
  - Credit Mutuel-CIC  
  - FDC Nashville Global  
  - SIX  
- For all other processors, this field is optional. | 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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
# P2PE Request Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>encryptedPayment_data</td>
<td>Encrypted Bluefin PCI P2PE payment data. Obtain the encrypted payment data from a Bluefin-supported device. See &quot;PCI P2P Encryption with Bluefin,&quot; page 17.</td>
<td>ccAuthService (R for authorizations that use Bluefin PCI P2PE) ccCreditService (R for stand-alone credits that use Bluefin PCI P2PE)</td>
<td>String (3072)</td>
</tr>
<tr>
<td>encryptedPayment_descriptor</td>
<td>Format of the encrypted payment data. The value for Bluefin PCI P2PE is Ymx1ZWZpbg==. See &quot;PCI P2P Encryption with Bluefin,&quot; page 17.</td>
<td>ccAuthService (R for authorizations that use Bluefin PCI P2PE) ccCreditService (R for stand-alone credits that use Bluefin PCI P2PE)</td>
<td>String (128)</td>
</tr>
</tbody>
</table>

# Reply Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>acquirerMerchantNumber</td>
<td>Identifier that was assigned to you by your acquirer. This value must be printed on the receipt. This field is supported only for CyberSource integrations as described in &quot;CyberSource Integration,&quot; page 10.</td>
<td>ccAuthReply ccCreditReply</td>
<td>String (15)</td>
</tr>
<tr>
<td>card_cardType</td>
<td>Three-digit value that indicates the card type. For the possible values, see Appendix D, &quot;Card Types,&quot; on page 88.</td>
<td>ccCreditReply</td>
<td>String (3)</td>
</tr>
</tbody>
</table>

*CyberSource Integrations*

This field is included in the reply message when the client software that is installed on the POS terminal uses the token management service (TMS) to retrieve tokenized payment details. You must contact CyberSource Customer Support to have your account enabled to receive these fields in the credit reply message. See "CyberSource Integration," page 10.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>card_suffix</td>
<td>Last four digits of the cardholder’s account number. This field is included in the reply message when the client software that is installed on the POS terminal uses the token management service (TMS) to retrieve tokenized payment details. You must contact CyberSource Customer Support to have your account enabled to receive these fields in the credit reply message. This field is supported only for CyberSource integrations as described in “CyberSource Integration,” page 10.</td>
<td>ccCreditReply</td>
<td>String (4)</td>
</tr>
</tbody>
</table>
| emvReply_combinedTags | EMV data that is transmitted from the chip card to the issuer and from the issuer to the chip card. The EMV data is in the tag-length-value format and includes chip card tags, terminal tags, and transaction detail tags. See “Europay, Mastercard, Visa (EMV),” page 11. For information about the individual tags, see the “Application Specification” section in the EMV 4.3 Specifications: http://emvco.com  
**Note**  Information in this guide about EMV applies to credit card processing and PIN debit processing. All other information in this guide applies only to credit card processing. PIN debit processing is available only on FDC Nashville Global. | ccAuthReply, ccAuthReversalReply, pinDebitCreditReply, pinDebitPurchaseReply, pinDebitReversalReply  
**Note** The PIN debit services are supported only on FDC Nashville Global. | String (999) |
| encryptedPayment_errorCode | Error code returned by Bluefin when the decryption fails. See Appendix C, “Bluefin PCI P2PE Error Codes,” on page 87. | ccAuthReply, ccCreditReply | String (4)        |
| encryptedPayment_referenceID | Unique transaction identifier returned by Bluefin. You can use this value for tracking and reporting. See "PCI P2P Encryption with Bluefin," page 17. | ccAuthReply, ccCreditReply | Integer (25)      |
| issuer_responseCode   | Additional authorization code that must be printed on the receipt when returned by the processor. This value is generated by the processor and is returned only for a successful transaction. This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10, but is supported only for FDC Nashville Global and SIX. | ccAuthReply, ccAuthReversalReply | Integer (6)      |
### Table 13 Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| paymentAccountReference | Visa-generated reference number that identifies a card-present transaction for which you provided one of the following:  
  - Visa primary account number (PAN)  
  - Visa-generated token for a PAN  
  
  This reference number serves as a link to the cardholder account and to all transactions for that account. | ccAuthReply                | String (32)          |
| pos_terminalID         | Terminal identifier assigned by the acquirer. This value must be printed on the receipt.  
  
  This field is supported only for CyberSource integrations as described in "CyberSource Integration," page 10. | ccAuthReply ccCreditReply | String (8)          |
| pos_terminalIDAlternate | Identifier for an alternate terminal at your retail location. You defined the value for this field in the request message. This value must be printed on the receipt.  
  
  This field is supported only for MasterCard transactions on FDC Nashville Global. | ccAuthReply ccAuthReversalReply | String (8)          |
| routing_networkLabel   | Name of the network on which the transaction was routed.  
  
  This field is supported only on FDC Nashville Global. | ccAuthReply                | String (10)         |
| routing_networkType    | Indicates whether the transaction was routed on a credit network, a debit network, or the STAR signature debit network. Possible values:  
  - C: Credit network  
  - D: Debit network (without signature)  
  - S: STAR signature debit network  
  
  This field is supported only on FDC Nashville Global. | ccAuthReply                | String (1)           |
| routing_signatureCVM   | Indicates whether you need to obtain the cardholder's signature. Possible values:  
  - true: You need to obtain the cardholder's signature.  
  - false: You do not need to obtain the cardholder's signature.  
  
  This field is supported only on FDC Nashville Global. | ccAuthReply                | String (5)           |
Table 13 Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>salesSlipNumber</td>
<td>Transaction identifier. If you included this field in the request, the returned value is the value that you sent in the request. If you did not include this field in the request, CyberSource generated this value for you. The difference between this field and the receiptNumber field is that CyberSource generates the receipt number, and you must print the receipt number on the receipt; whereas you can generate the sales slip number, and you can choose to print the sales slip number on the receipt. This field is supported only on JCN Gateway.</td>
<td>ccAuthReply</td>
<td>Integer (5)</td>
</tr>
</tbody>
</table>
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=%B411111111111111^SMITH/BETTY^16121200123456789012**
     XXX******?*;411111111111111=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
Sale Using EMV Technology with a Contact Read

American Express Direct

Example 5  Request Message: Sale on American Express Direct Using EMV Technology with a Contact Read

```
merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=contact
pos_cardPresent=Y
pos_terminalCapability=4
pos_terminalSerialNumber=01043191
pos_trackData=%B4111111111111111^SMITH/BETTY\16121200123456789012**
XXX*****?*;41111111111111111=16121200XXXX00000000?

pos_terminalInputCapabilities_0=contact
pos_terminalInputCapabilities_1=contactless
pos_terminalInputCapabilities_2=keyed
pos_terminalInputCapabilities_3=swiped
pos_terminalCVMcapabilities_0=pin
pos_terminalCVMcapabilities_1=signature
pos_deviceID=1231kjdIOBK34981slvilI39bj
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccAuthService_cardholderVerificationMethod=2
ccCaptureService_run=true
emvRequest_combinedTags=9F3303204000950500000000009F3704518823719F100
706011103A00009F26081E1756ED0E2134E29F36020095820200009C01009F1A020849A03006219F02060000000002005F2A0208409F03060000000000
emvRequest_cardSequenceNumber=001
partnerOriginalTransactionID=510be4aef90711e6acbc7d833888d803d
partnerSDKversion=2.18.0
```
Example 6  
*Reply Message: Sale on American Express Direct Using EMV Technology with a Contact Read*

```plaintext
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
ccCaptureReply_reasonCode=100
ccCaptureReply_amount=75.00
ccCaptureReply_reconciliationID=1094820975023470
receiptNumber=260371
emvReply_combinedTags=9F330320400095050000000009F3704518823719F100
706011103A000009F26081E1756ED0E2139E29F3502001582020009C01009F1A020
8409A0300006219F0206000000020005F2A0208409F03060000000000
acquirerMerchantNumber=1234567890
issuer_responseCode=721100
pos_terminalID=ABCD1234
```
Appendix B  Examples

**Credit Mutuel-CIC, FDC Nashville Global, or SIX**

**Example 7**  Request Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contact Read

```plaintext
merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=contact
pos_cardPresent=Y
pos_terminalCapability=4
pos_terminalSerialNumber=01043191
pos_trackData="&B411111111111111111^SMITH/BETTY\'16121200123456789012**
 XXX****?*,4111111111111111=16121200XXXX00000000?*
pos_terminalInputCapabilities_0=contact
pos_terminalInputCapabilities_1=contactless
pos_terminalInputCapabilities_2=keyed
pos_terminalInputCapabilities_3=swiped
pos_terminalCVMcapabilities_0=pin
pos_terminalCVMcapabilities_1=signature
pos_deviceID=123lkjdIOBK34981s1viLI39bj
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccAuthService_cardholderVerificationMethod=2
ccCaptureService_run=true
emvRequest_combinedTags=9F3303204000950500000000009F3704518823719F100
  706011103A00009F26081E1756ED0E2134E29F3602001582020009C01009F1A020
  8409A003006219F02060000000020005F2A020849F03060000000000
emvRequest_cardSequenceNumber=001
partnerOriginalTransactionID=510be4aef90711e6acbc7d88388d803d
partnerSDKversion=2.18.0
```

---

*Card-Present Processing Using the Simple Order API*  |  *June 2019*  |  *60*
Example 8 Reply Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contact Read

```plaintext
merchantReferenceCode=ABC123
requestID=030578265000167905080
decision=ACCEPT
reasonableCode=100
purchaseTotals_currency=usd
ccAuthReply_reasonCode=100
ccAuthReply_amount=75.00
ccAuthReply_authorizationCode=831000
ccAuthReply_avsCode=2
ccAuthReply_processorResponse=00
ccAuthReply_reconciliationID=1094820975023470
ccCaptureReply_reasonCode=100
ccCaptureReply_amount=75.00
ccCaptureReply_reconciliationID=1094820975023470
receiptNumber=260371
emvReply_combinedTags=9F3303204000950500000000000009F3704518823719F100
706011103A000099F26081E1756ED0E2134E29F3602001582020009C01009F1A020
8409A030006219F0206000000020005F2A0208409F03060000000000
acquirerMerchantNumber=1234567890
issuer_responseCode=721100
pos_terminalID=ABCD1234
```
Dynamic Currency Conversion on FDC Nashville Global or SIX

Example 9 Request Message: Sale on FDC Nashville Global or SIX Using Dynamic Currency Conversion and EMV Technology with a Contact Read

merchantID=Merchant12345
merchantReferenceCode=FDE Contact Auth 1
purchaseTotals_currency=EUR
purchaseTotals_grandTotalAmount=30
purchaseTotals_foreignAmount=25.44
purchaseTotals_foreignCurrency=GBP
purchaseTotals_exchangeRate=1.1789
purchaseTotals_exchangeRateTimeStamp=20170824 10:21
dcc_dccIndicator=1
pos_entryMode=contact
pos_cardPresent=Y
pos_terminalCapability=4
pos_trackData=%B4111111111111111110^SMITH/BETTY^20121200123456012**XXX* 
******?411111111111111110D20121200XXXX00000?*
pos_terminalID=99D11001
pos_deviceID=device1
pos_terminalInputCapabilities_0=swiped
pos_terminalInputCapabilities_1=contact
pos_terminalInputCapabilities_2=contactless
pos_terminalCVMcapabilities_0=signature
pos_terminalCVMcapabilities_1=pin
card_cardType=001
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccAuthService_cardholderVerificationMethod=2
partnerOriginalTransactionID=510be4ae59071166abc7d88388d803d
emvRequest_combinedTags=9F330320400095050000000009F3704518823719F100
706011103A00009F26081E1756ED0E213429F36020015820200009C01009F1A020
8409A030006219F020690000000200005F2A208409F030600000000000
emvRequest_cardSequenceNumber=001
All Other Processors

Example 10  Request Message: Sale Using EMV Technology with a Contact Read

```plaintext
merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=contact
pos_cardPresent=Y
pos_terminalCapability=4
pos_trackData=%B4111111111111111^SMITH/BETTY^16121200123456789012**
   XXX*****?;4111111111111111=16121200XXXX0000000?*
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccCaptureService_run=true
emvRequest_combinedTags=9F330320400095050000000009F3704518823719F100
    706011103A000009F26081E1756ED0E2134E29F3602001582020009C01009F1A020
     8409A03006219F020600000000020005F2A0208409F03060000000000
emvRequest_cardSequenceNumber=001
```

Example 11  Reply Message: Sale Using EMV Technology with a Contact Read

```plaintext
merchantReferenceCode=ABC123
requestID=030578265000167905080
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
emvReply_combinedTags=9F330320400095050000000009F3704518823719F100
    706011103A000009F26081E1756ED0E2134E29F3602001582020009C01009F1A020
     8409A03006219F020600000000020005F2A0208409F03060000000000
```
Sale Using EMV Technology with a Contactless Read

American Express Direct

Example 12  Request Message: Sale on American Express Direct Using EMV Technology with a Contactless Read

merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=contactless
pos_cardPresent=Y
pos_terminalCapability=5
pos_terminalSerialNumber=01043191
pos_trackData=%B4111111111111111^SMITH/BETTY^16121200123456789012**
   XXX*****?*;4111111111111111=16121200XXXX00000000?*
pos_terminalInputCapabilities_0=contact
pos_terminalInputCapabilities_1=contactless
pos_terminalInputCapabilities_2=keyed
pos_terminalInputCapabilities_3=swiped
pos_terminalCVMcapabilities_0=pin
pos_terminalCVMcapabilities_1=signature
pos_deviceID=123lkjdIOBK34981slviLI39bj
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccAuthService_cardholderVerificationMethod=2
ccCaptureService_run=true
emvRequest_combinedTags=9F330320400095050000000009F3704518823719F100
   706011103A000009F26081E1756ED0E2134E29F36020015820200009C01009F1A020
   8409A030006219F020600000000020005F2A0208409F0306600000000000
emvRequest_cardSequenceNumber=001
partnerOriginalTransactionID=510be4aeef90711e6acbc7d883888d803d
partnerSDKversion=2.18.0
Example 13  Reply Message: Sale on American Express Direct Using EMV Technology with a Contactless Read

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
ccCaptureReply_reasonCode=100
ccCaptureReply_amount=75.00
ccCaptureReply_reconciliationID=1094820975023470
receiptNumber=852734
emvReply_combinedTags=9F3303204000950500000000009F3704518823719F100
706011103A000009F26081E1756ED00E2134E29F3602001582020009C01009F1A020
849A030006219F020600000000020005F2A020849F030600000000000
acquirerMerchantNumber=1234567890
issuer_responseCode=721100
pos_terminalID=ABCD1234
Credit Mutuel-CIC, FDC Nashville Global, or SIX

Example 14  Request Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contactless Read

```plaintext
merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=contactless
pos_cardPresent=Y
pos_terminalCapability=5
pos_terminalSerialNumber=01043191
pos_trackData=%B4111111111111111^SMITH/BETTY^16121200123456789012**
XXX******?*;4111111111111111=16121200XXXX00000000?
pos_terminalInputCapabilities_0=contact
pos_terminalInputCapabilities_1=contactless
pos_terminalInputCapabilities_2=keyed
pos_terminalInputCapabilities_3=swiped
pos_terminalCVMcapabilities_0=pin
pos_terminalCVMcapabilities_1=signature
pos_deviceID=1231kjdIOBK34981slviLI39bj
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccAuthService_cardholderVerificationMethod=2
ccCaptureService_run=true
emvRequest_combinedTags=9F3303204000950500000000009F3704518823719F100
706011103A00009F26081E1756ED0E2134E29F36020015820200009C01009F1A020
8409A03006219F02060000000020005F2A0208409F0306000000000000
emvRequest_cardSequenceNumber=001
partnerOriginalTransactionID=510be4aeaf90711e6acbc7d88388d803d
partnerSDKversion=2.18.0
```
Example 15  Reply Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contactless Read

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
ccCaptureReply_reasonCode=100
ccCaptureReply_amount=75.00
ccCaptureReply_reconciliationID=1094820975023470
receiptNumber=852734
emvReply_combinedTags=9F33032040009505000000000009F3704518823719F100 706011103A000009F26081E1756ED0E2134E29F360200158202000009C01009F1A02 8409A030006219F020600000000200005F2A0208409F030600000000000 acquirerMerchantNumber=1234567890
issuer_responseCode=721100
pos_terminalID=ABCD1234

All Other Processors

Example 16  Request Message: Sale Using EMV Technology with a Contactless Read

merchantID=JanesPlants
merchantReferenceCode=ABC123
purchaseTotals_currency=usd
purchaseTotals_grandTotalAmount=75.00
pos_entryMode=contactless
pos_cardPresent=Y
pos_terminalCapability=5
pos_trackData=%B4111111111111111^SMITH/BETTY^16121200123456789012** XXX****?*;41111111111111111=16121200XXXX00000000?*
ccAuthService_run=true
ccAuthService_commerceIndicator=retail
ccAuthService_captureDate=0823
ccCaptureService_run=true
emvRequest_combinedTags=9F33032040009505000000000009F3704518823719F100 706011103A000009F26081E1756ED0E2134E29F360200158202000009C01009F1A02 8409A030006219F020600000000200005F2A0208409F030600000000000 emvRequest_cardSequenceNumber=001
Appendix B  Examples

Example 17  Reply Message: Sale Using EMV Technology with a Contactless Read

```
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=852734
emvReply_combinedTags=9F3303204000950500000000009F3704518823719F10076011103A000009F26081E1756ED2134E29F3602000158202000000C01009F1A020849A03006219F0206000000002005F2A0208409F030600000000000
```
Appendix B  Examples

**Example 19  Reply Message: Authorization Using Bluefin PCI P2PE**

```
merchantReferenceCode=demorefnum
requestID=0305782650000167905080
decision=ACCEPT
reasonCode=100
purchaseTotals_currency=USD
ccAuthReply_reasonCode=100
ccAuthReply_amount=75.00
ccAuthReply_authorizationCode=831000
ccAuthReply_avsCode=1
ccAuthReply_processorResponse=100
ccAuthReply_reconciliationID=1094820975023470
encryptedPayment_referenceID=120169222122091013107861
```

**XML Examples**

**Sale Using Swiped Track Data**

**Example 20  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******?*;411111111111111116121200XXXX00000000?*/</trackData>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
  </ccAuthService>
  <ccCaptureService run="true"/>
</requestMessage>
```
Example 21  Reply Message: Sale Using Swiped Track Data

```xml
<replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <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>
</replyMessage>
```
Example 22  Request Message: Sale Using Keyed Data

```xml
<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 23  Reply Message: Sale Using Keyed Data

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <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 EMV Technology with a Contact Read

American Express Direct

Example 24  Request Message: Sale on American Express Direct Using EMV Technology with a Contact Read

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.138">
  <merchantID>JanesPlants</merchantID>
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <purchaseTotals>
    <currency>usd</currency>
    <grandTotalAmount>75.00</grandTotalAmount>
  </purchaseTotals>
  <pos>
    <entryMode>contact</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>4</terminalCapability>
    <trackData>%B4111111111111111^SMITH/BETTY'16121200123456789012**XXX******?*; 4111111111111111=16121200XXXX0000000D?*/</trackData>
    <deviceID>123lkjdIOBK34981sviLI39bj</deviceID>
    <terminalSerialNumber>01043191</terminalSerialNumber>
    <terminalInputCapabilities id="0">contact</terminalInputCapabilities>
    <terminalInputCapabilities id="1">contactless</terminalInputCapabilities>
    <terminalInputCapabilities id="2">keyed</terminalInputCapabilities>
    <terminalInputCapabilities id="3">swiped</terminalInputCapabilities>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
    <captureDate>0823</captureDate>
    <cardholderVerificationMethod>2</cardholderVerificationMethod>
  </ccAuthService>
  <ccCaptureService run="true"/>
  <emvRequest>
    <combinedTags>9F330320400095050000000009F3704518823719F100706011103A000009F26081E756ED0E2134E29F3602001582020009C1009F1A0208409A030006219F02060000000000005F2A0208409F0306000000000000</combinedTags>
    <cardSequenceNumber>001</cardSequenceNumber>
  </emvRequest>
  <partnerOriginalTransactionID>510be4aef90711e6acbc7d88388d803d</partnerOriginalTransactionID>
  <partnerSDKversion>2.18.0</partnerSDKversion>
</requestMessage>
```
Example 25  Reply Message: Sale on American Express Direct Using EMV Technology with a Contact Read

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.138">
  <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: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:emvReply>
    <c:combinedTags>9F330320400095050000000009F3704518823719F100706011103A000009F26081E1756ED0E2134E29F3602001582020009C01009F10208409A03006219F0206000000020005F2A0208409F03060000000000</c:combinedTags>
  </c:emvReply>
  <c:issuer>
    <c:responseCode>721100</c:responseCode>
  </c:issuer>
  <c:pos>
    <c:terminalID>ABCD1234</c:terminalID>
  </c:pos>
  <c:acquirerMerchantNumber>1234567890</c:acquirerMerchantNumber>
</c:replyMessage>
```
Credit Mutuel-CIC, FDC Nashville Global, or SIX

Example 26  Request Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contact Read

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.138">
  <merchantID>JanesPlants</merchantID>
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <purchaseTotals>
    <currency>usd</currency>
    <grandTotalAmount>75.00</grandTotalAmount>
  </purchaseTotals>
  <pos>
    <entryMode>contact</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>4</terminalCapability>
    <trackData>%B4111111111111111^SMITH/BETTY^16121200123456789012**XXX*******?*
4111111111111111=16121200XXXX00000000?*/</trackData>
    <deviceID>123lkjdIOBK34981alviLI39bj</deviceID>
    <terminalSerialNumber>01043191</terminalSerialNumber>
    <terminalInputCapabilities id="0">contact</terminalInputCapabilities>
    <terminalInputCapabilities id="1">contactless</terminalInputCapabilities>
    <terminalInputCapabilities id="2">keyed</terminalInputCapabilities>
    <terminalInputCapabilities id="3">swiped</terminalInputCapabilities>
    <terminalCVMcapabilities id="0">pin</terminalCVMcapabilities>
    <terminalCVMcapabilities id="1">signature</terminalCVMcapabilities>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
    <captureDate>0823</captureDate>
    <cardholderVerificationMethod>2</cardholderVerificationMethod>
  </ccAuthService>
  <ccCaptureService run="true"/>
  <emvRequest>
    <combinedTags>9F3303204000950500000000009F3704518823719F100706011103A000009F260
81E1756EDE2134E29F36020015820200009C0109F1A0208409A03006219F020600000002
0005F2A0208409F0306000000000000</combinedTags>
    <cardSequenceNumber>001</cardSequenceNumber>
  </emvRequest>
  <partnerOriginalTransactionID>510be4aef90711e6acbc7d88388d803d</partnerOriginalTransactionID>
  <partnerSDKversion>2.18.0</partnerSDKversion>
</requestMessage>
```
Example 27 Reply Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contact Read

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.138">
  <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: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:emvReply>
    <c:combinedTags>9F3303204000950500000000000F3704518823719F100706011103A000009F2
    6081E1756ED0E2134E29F3602001582020009CD1009F1A208409A30006219F0206000000
    020005F2A0208409F030600000000000</c:combinedTags>
  </c:emvReply>
  <c:issuer>
    <c:responseCode>721100</c:responseCode>
  </c:issuer>
  <c:pos>
    <c:terminalID>ABCD1234</c:terminalID>
  </c:pos>
  <c:acquirerMerchantNumber>1234567890</c:acquirerMerchantNumber>
</c:replyMessage>
```
Dynamic Currency Conversion on FDC Nashville Global or SIX

Example 28  Request Message: Sale on FDC Nashville Global or SIX Using Dynamic Currency Conversion and EMV Technology with a Contact Read

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.138">
  <merchantID>Merchant12345</merchantID>
  <merchantReferenceCode>FDE Contact Auth 1</merchantReferenceCode>
  <purchaseTotals>
    <currency>EUR</currency>
    <grandTotalAmount>30</grandTotalAmount>
    <foreignAmount>30</foreignAmount>
    <foreignCurrency>EUR</foreignCurrency>
    <originalAmount>25.44</originalAmount>
    <originalCurrency>GBP</originalCurrency>
    <exchangeRate>1.1789</exchangeRate>
    <exchangeRateTimeStamp>20170824 10:21</exchangeRateTimeStamp>
  </purchaseTotals>
  <dcc><dccIndicator>1</dccIndicator></dcc>
  <pos>
    <entryMode>contact</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>4</terminalCapability>
    <trackData>%B4111111111111111^SMITH/BETTY^16121200123456789012**XXX******?*; 4111111111111111=16121200XXXX00000000?*</trackData>
    <terminalID>99D11001</terminalID>
    <deviceID>device1</deviceID>
    <terminalInputCapabilities id="0">swiped</terminalInputCapabilities>
    <terminalInputCapabilities id="1">contact</terminalInputCapabilities>
    <terminalInputCapabilities id="2">contactless</terminalInputCapabilities>
    <terminalCVMcapabilities id="0">signature</terminalCVMcapabilities>
    <terminalCVMcapabilities id="1">pin</terminalCVMcapabilities>
  </pos>
  <card><cardType>001</cardType></card>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
    <cardholderVerificationMethod>2</cardholderVerificationMethod>
  </ccAuthService>
  <partnerOriginalTransactionID>510be4aeef90711e6acbc7d88388d803d</partnerOriginalTransactionID>
  <emvRequest>
    <combinedTags>9F33032040009505000000000009F3704238561349F100706011103A0000009F26088717A1A173EA04D9F3602006582020009CD1009F1A0208409A03006209F02060000000020005F2A0208409F0360000000000000</combinedTags>
    <cardSequenceNumber>001</cardSequenceNumber>
  </emvRequest>
</requestMessage>
```
All Other Processors

Example 29  Request Message: Sale Using EMV Technology with a Contact Read

```xml
<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>contact</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>4</terminalCapability>
    <trackData>%B411111111111111^SMITH/BETTY^16121200123456789012**XXX******?*
4111111111111111=16121200XXXX00000000?*</trackData>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
  </ccAuthService>
  <ccCaptureService run="true"/>
  <emvRequest>
    <combinedTags>9F330320400095050000000009F3704518823719F100706011103A000009F260
81E1756ED0E2134E29F3602001582020009C01009F1A0208409A03006219F020600000002
0005F2A028409F0306000000000000</combinedTags>
    <cardSequenceNumber>001</cardSequenceNumber>
  </emvRequest>
</requestMessage>
```
Example 30  Reply Message: Sale Using EMV Technology with a Contact Read

```xml
<replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <requestID>0305782650000167905080</requestID>
  <decision>ACCEPT</decision>
  <reasonCode>100</reasonCode>
  <purchaseTotals>
    <currency>usd</currency>
  </purchaseTotals>
  <ccAuthReply>
    <reasonCode>100</reasonCode>
    <amount>75.00</amount>
    <authorizationCode>831000</authorizationCode>
    <avsCode>2</avsCode>
    <processorResponse>00</processorResponse>
    <reconciliationID>1094820975023470</reconciliationID>
    <paymentNetworkTransactionID>0412MCCNYJPWY</paymentNetworkTransactionID>
    <cardCategory>J1</cardCategory>
    <cardGroup>0</cardGroup>
  </ccAuthReply>
  <ccCaptureReply>
    <reasonCode>100</reasonCode>
    <amount>75.00</amount>
    <reconciliationID>1094820975023470</reconciliationID>
  </ccCaptureReply>
  <receiptNumber>260371</receiptNumber>
  <emvReply>
    <combinedTags>9F3303204000950500000000009F3704518823719F1007060111103A000009F2
6081E1756EDEE2134E29F3602001582020009C0109F1A0208409A03006219F0206000000
020005F2A0208409F03060000000000</combinedTags>
  </emvReply>
</replyMessage>
```
Sale Using EMV Technology with a Contactless Read

American Express Direct

Example 31  Request Message: Sale on American Express Direct Using EMV Technology with a Contactless Read

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.138">
  <merchantID>JanesPlants</merchantID>
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <purchaseTotals>
    <currency>usd</currency>
    <grandTotalAmount>75.00</grandTotalAmount>
  </purchaseTotals>
  <pos>
    <entryMode>contactless</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>5</terminalCapability>
    <trackData>%B4111111111111111^SMITH/BETTY^16121200123456789012**XXX*******; 
        4111111111111111=16121200XXXX00000000?*</trackData>
    <deviceID>123lkjdIOBK34981slviLI39bj</deviceID>
    <terminalSerialNumber>01043191</terminalSerialNumber>
    <terminalInputCapabilities id="0">contact</terminalInputCapabilities>
    <terminalInputCapabilities id="1">contactless</terminalInputCapabilities>
    <terminalInputCapabilities id="2">keyed</terminalInputCapabilities>
    <terminalInputCapabilities id="3">swiped</terminalInputCapabilities>
    <terminalCVMcapabilities id="0">pin</terminalCVMcapabilities>
    <terminalCVMcapabilities id="1">signature</terminalCVMcapabilities>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
    <captureDate>0823</captureDate>
    <cardholderVerificationMethod>2</cardholderVerificationMethod>
  </ccAuthService>
  <ccCaptureService run="true"/>
  <emvRequest>
    <combinedTags>9F3303204000095050000000009F370423561349F100706011103A000009F260 
        88717A1A173EAAA04D9F36020065820200009C01009F1A0208409A03006209F020600000002 
        0005F2A0208409F0306000000000000</combinedTags>
    <cardSequenceNumber>001</cardSequenceNumber>
  </emvRequest>
  <partnerOriginalTransactionID>510be4aef90711e6acbc7d88388d803d</partnerOriginalTransactionID>
  <partnerSDKversion>2.18.0</partnerSDKversion>
</requestMessage>
```
Example 32  Reply Message: Sale on American Express Direct Using EMV Technology with a Contactless Read

<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.138">
  <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: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:emvReply>
    <c:combinedTags>9F3303204000950500000000009F3704518823719F100706011103A000009F2
     6081E1756ED0E2134E29F3602001582020009C01009F1A0208409A03006219F0206000000
     020005F2A0208409F03060000000000</c:combinedTags>
  </c:emvReply>
  <c:issuer>
    <c:responseCode>721100</c:responseCode>
  </c:issuer>
  <c:pos>
    <c:terminalID>ABCD1234</c:terminalID>
  </c:pos>
  <c:acquirerMerchantNumber>1234567890</c:acquirerMerchantNumber>
</c:replyMessage>
Appendix B  Examples

Credit Mutuel-CIC, FDC Nashville Global, or SIX

Example 33  Request Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contactless Read

```xml
:requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.138">
  <merchantID>JanesPlants</merchantID>
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <purchaseTotals>
    <currency>usd</currency>
    <grandTotalAmount>75.00</grandTotalAmount>
  </purchaseTotals>
  <pos>
    <entryMode>contactless</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>5</terminalCapability>
    <trackData>%B4111111111111111^SMITH/BETTY^1612120012456789012**XXX******?*; 4111111111111111=16121200XXXX00000000?*/</trackData>
    <deviceID>123lkjdIOBK34981slviLI39bj</deviceID>
    <terminalSerialNumber>01043191</terminalSerialNumber>
    <terminalInputCapabilities id="0">contact</terminalInputCapabilities>
    <terminalInputCapabilities id="1">contactless</terminalInputCapabilities>
    <terminalInputCapabilities id="2">keyed</terminalInputCapabilities>
    <terminalInputCapabilities id="3">swiped</terminalInputCapabilities>
    <terminalCVMcapabilities id="0">pin</terminalCVMcapabilities>
    <terminalCVMcapabilities id="1">signature</terminalCVMcapabilities>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
    <captureDate>0823</captureDate>
    <cardholderVerificationMethod>2</cardholderVerificationMethod>
  </ccAuthService>
  <ccCaptureService run="true"/>
  <emvRequest>
    <combinedTags>9F330320400095050000000009F3704238561349F100706011103A000009F260 88717A1A173EAA04DF9F360206582020009C0109F1A0208409A03006209F020600000002 0005F2A0208409F030600000000000</combinedTags>
    <cardSequenceNumber>001</cardSequenceNumber>
  </emvRequest>
  <partnerOriginalTransactionID>510be4aef90711e6acbc7d88388d803d</partnerOriginalTransactionID>
  <partnerSDKversion>2.18.0</partnerSDKversion>
</requestMessage>
```
Example 34  Reply Message: Sale on Credit Mutuel-CIC, FDC Nashville Global, or SIX Using EMV Technology with a Contactless Read

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.138">
  <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:avsCode>2</c:avsCode>
    <c:processorResponse>00</c:processorResponse>
    <c:reconciliationID>1094820975023470</c:reconciliationID>
  </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:emvReply>
    <c:combinedTags>9F33032040095050000000009F3704518823719F1007060111103A000009F2
      6081E1756EDDE2134E29F3602001582020009CD0109F1A0208409A03006219F020C00000
      0200052E2A208409F030600000000000</c:combinedTags>
  </c:emvReply>
  <c:issuer>
    <c:responseCode>721100</c:responseCode>
  </c:issuer>
  <c:pos>
    <c:terminalID>ABCD1234</c:terminalID>
  </c:pos>
  <c:acquirerMerchantNumber>1234567890</c:acquirerMerchantNumber>
</c:replyMessage>
```
All Other Processors

Example 35  Request Message: Sale Using EMV Technology with a Contactless Read

```
<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>contactless</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>5</terminalCapability>
    <trackData>%B4111111111111111^SMITH/BETTY\'16121200123456789012**XXX*******?*
41111111111111111111=16121200XXXX00000000?*/</trackData>
  </pos>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
    <captureDate>0823</captureDate>
  </ccAuthService>
  <ccCaptureService run="true"/>
  <emvRequest>
    <combinedTags>9F3303204000950500000000009F3704238561349F100706011103A00009F260
88717A1A173EAA04D9F3602006582020009C01009F1A0208409A03006209F020600000002
000F2A0208409F0306000000000000</combinedTags>
    <cardSequenceNumber>001</cardSequenceNumber>
  </emvRequest>
</requestMessage>
```
Example 36  Reply Message: Sale Using EMV Technology with a Contactless Read

```xml
<replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantReferenceCode>ABC123</merchantReferenceCode>
  <requestID>0305782650000167905080</requestID>
  <decision>ACCEPT</decision>
  <reasonCode>100</reasonCode>
  <purchaseTotals>
    <currency>usd</currency>
  </purchaseTotals>
  <ccAuthReply>
    <reasonCode>100</reasonCode>
    <amount>75.00</amount>
    <authorizationCode>831000</authorizationCode>
    <avsCode>2</avsCode>
    <processorResponse>00</processorResponse>
    <reconciliationID>1094820975023470</reconciliationID>
    <paymentNetworkTransactionID>0412MCCNYJPWY</paymentNetworkTransactionID>
    <cardCategory>J1</cardCategory>
    <cardGroup>0</cardGroup>
  </ccAuthReply>
  <ccCaptureReply>
    <reasonCode>100</reasonCode>
    <amount>75.00</amount>
    <reconciliationID>1094820975023470</reconciliationID>
  </ccCaptureReply>
  <receiptNumber>260371</receiptNumber>
  <emvReply>
    <combinedTags>9F3303204000950500000000009F3704518823719F100706011303A0000009F2
            6081E176ED0E2134E29F3602001582020009C0109F1A0208409A030006219F00206000000
            020005F2A0208409F030600000000000</combinedTags>
  </emvReply>
</replyMessage>
```
Authorization Using Bluefin PCI P2PE

Example 37  Request Message: Authorization Using Bluefin PCI P2PE

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.1.132">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>75.00</grandTotalAmount>
  </purchaseTotals>
  <pos>
    <entryMode>keyed</entryMode>
    <cardPresent>Y</cardPresent>
    <terminalCapability>2</terminalCapability>
  </pos>
  <encryptedPayment>
    <descriptor>Ymx1ZWZpbg==</descriptor>
    <data>02d70080f3c20008383252a36303132a2a2a2a2a303030395e46444d53202020
2020202020202020202020e33231322a2a2a2a2a2a2a2a2a3f2a3b336303131
2a2a2a2a2a2a2a2a30303039d323231322a2a2a2a2a2a2a2a2a2a2a2a2a2a2a2a2a
7a75ad15d25217290c54b3d9d1c386b62136c68d339d52d98423391f3e631511d548ff08b414feac9ff6c6d8e8fb85b9e4
0e43f6f62d6a75fa0a178c3bd18d03ade21bc7a0ea687a2eef64551571e502d97c98dc53e
a55162c7fa3954323439323830303762994901000001a000731a803</data>
  </encryptedPayment>
  <ccAuthService run="true">
    <commerceIndicator>retail</commerceIndicator>
  </ccAuthService>
</requestMessage>
```

Example 38  Reply Message: Authorization Using Bluefin PCI P2PE

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.1.132">
  <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>1</c:avsCode>
    <c:processorResponse>100</c:processorResponse>
    <c:reconciliationID>1094820975023470</c:reconciliationID>
  </c:ccAuthReply>
  <c:encryptedPayment_referenceID>1201609222122091013107861</c:encryptedPayment_referenceID>
</c:replyMessage>
```
Bluefin PCI P2PE Error Codes

The following table describes the error codes returned by Bluefin for Bluefin PCI P2PE transactions. For information about encrypted transactions, see "PCI P2P Encryption with Bluefin," page 17. When an encryption error occurs:

- CyberSource sets the reason code to 150 in the authorization or stand-alone credit reply message. This value indicates that a general system failure occurred and your authorization or stand-alone credit request was not processed.
- CyberSource sets the value for encryptedPayment_errorCode to the Bluefin PCI P2PE error code.

Table 14  Bluefin PCI P2PE Error Codes

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>Generic or unknown error code.</td>
</tr>
<tr>
<td>1101</td>
<td>Internal system configuration setup error</td>
</tr>
<tr>
<td>1102</td>
<td></td>
</tr>
<tr>
<td>1103</td>
<td></td>
</tr>
<tr>
<td>1104</td>
<td></td>
</tr>
<tr>
<td>1105</td>
<td></td>
</tr>
<tr>
<td>1202</td>
<td>Device not found or device not recognized.</td>
</tr>
<tr>
<td>1203</td>
<td>Device not active.</td>
</tr>
<tr>
<td>1204</td>
<td>Invalid firmware version.</td>
</tr>
<tr>
<td>1303</td>
<td>All decryptions failed.</td>
</tr>
<tr>
<td>1404</td>
<td>Decryption failed for some other reason.</td>
</tr>
<tr>
<td>1406</td>
<td>Decrypted result did not include credit card information.</td>
</tr>
</tbody>
</table>
Table 15 lists the values that are supported for the `card_cardType` field in requests and replies. Even though all of these card types are supported for card-not-present transactions, many of them are not supported for card-present transactions. Contact your processor if you have questions about which card types are supported for card-present transactions.

### Important

CyberSource strongly recommends that you include the card type field in request messages even if 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.

**Table 15: Card Types**

<table>
<thead>
<tr>
<th>Value</th>
<th>Card Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Visa</td>
</tr>
<tr>
<td></td>
<td>For card-present transactions on all processors except SIX, the Visa Electron card type is processed the same way that the Visa debit card is processed. Use card type value 001 for Visa Electron.</td>
</tr>
<tr>
<td>002</td>
<td>Mastercard, Eurocard(^1): European regional brand of Mastercard.</td>
</tr>
<tr>
<td>003</td>
<td>American Express</td>
</tr>
<tr>
<td>004</td>
<td>Discover</td>
</tr>
<tr>
<td>005</td>
<td>Diners Club</td>
</tr>
<tr>
<td>006</td>
<td>Carte Blanche(^1)</td>
</tr>
<tr>
<td>007</td>
<td>JCB(^1)</td>
</tr>
<tr>
<td>014</td>
<td>EnRoute(^1)</td>
</tr>
<tr>
<td>021</td>
<td>JAL(^1)</td>
</tr>
<tr>
<td>024</td>
<td>Maestro (UK Domestic)(^1)</td>
</tr>
<tr>
<td>033</td>
<td>Visa Electron(^1)</td>
</tr>
<tr>
<td></td>
<td>Use this value only for SIX. For other processors, use 001 for all Visa card types.</td>
</tr>
<tr>
<td>034</td>
<td>Dankort(^1)</td>
</tr>
</tbody>
</table>

\(^1\) For this card type, you must include the `card_cardType` field in your request for an authorization or a stand-alone credit.
Table 15  Card Types (Continued)

<table>
<thead>
<tr>
<th>Value</th>
<th>Card Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>036</td>
<td>Cartes Bancaires&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>037</td>
<td>Carta Si&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>039</td>
<td>Encoded account number&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>040</td>
<td>UATP&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>042</td>
<td>Maestro (International)&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>050</td>
<td>Hipercard&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>051</td>
<td>Aura</td>
</tr>
<tr>
<td>054</td>
<td>Elo</td>
</tr>
<tr>
<td>062</td>
<td>China UnionPay</td>
</tr>
</tbody>
</table>

<sup>1</sup> For this card type, you must include the `card_cardType` field in your request for an authorization or a stand-alone credit.