Payment Tokenization

Using the Simple Order API

January 2016
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## Recent Revisions to This Document

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<thead>
<tr>
<th>Release</th>
<th>Changes</th>
</tr>
</thead>
</table>
| January 2016    | - Added the “Relaxed Requirements for Address Data and Expiration Date”. See page 20.  
                  - Amex Direct no longer supports 0.00 preauthorizations. |
                  - Added the “Including the Payment Network Token” section. See page 27.  
                  - Added the “Replacing Card Information With a Payment Network Token” section. See page 32.  
                  - Added the “Updating Payment Network Token Information” section. See page 33.  
                  - Added the “Replacing a Payment Network Token With Card Information” section. See page 34.  
                  - Added the following request fields (see page 47):  
                    - ccAuthService_cavv  
                    - ccAuthService_commerceIndicator  
                    - ccAuthService_xid  
                    - paymentNetworkToken_requestorID  
                    - paymentNetworkToken_transactionType  
                    - ucaf_authenticationData  
                    - ucaf_collectionIndicator |
| January 2015    | - Added a note to the “Manually Preauthorizing a Subscription” section. See page 24. |
| December 2014   | - Updated the data type and length for a number of request fields. See Table 8, page 47.  
                  - Added a number of authorization reply fields. See Table 9, page 62. |
| August 2014     | - Updated the “Supported Processors and Payment Types” section. See page 13.  
                  - Updated the “Requesting an On-Demand Transaction” section. See page 36.  
                  - Updated the “Customer Subscription Sharing” section. See page 40. |
| January 2014    | Initial release. |
About This Guide

Audience and Purpose

This guide is written for merchants who want to create customer payment profiles and eliminate payment data from their network to ensure that customers’ sensitive personal information is not compromised during a security breach. A customer’s sensitive information is replaced with a unique identifier, known as a profile ID, which you store on your network.

The purpose of this guide is to help you create, update, retrieve, and delete customer profiles. It also describes how to process an on-demand transaction using a customer profile.

Conventions

Note, Important, and Warning Statements

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

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

A Warning contains information or instructions, which, if not heeded, can result in a security risk, irreversible loss of data, or significant cost in time or revenue or both.
Text and Command Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Usage</th>
</tr>
</thead>
</table>
| **bold**   | - Field and service names in text; for example: Include the `paySubscriptionCreateService_run` field.  
- Items that you are instructed to act upon; for example: Click `Save`. |
| **monospace** | Code examples and samples. |

Related Documents

Refer to the Support Center for complete CyberSource technical documentation:
http://www.cybersource.com/support_center/support_documentation

Table 1  Related Documents

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Updater</td>
<td>*Account Updater User Guide (PDF</td>
</tr>
<tr>
<td>Business Center</td>
<td>*Business Center Overview (PDF</td>
</tr>
<tr>
<td>Credit Card</td>
<td>*Credit Card Services Using the Simple Order API (PDF</td>
</tr>
<tr>
<td>eCheck</td>
<td>*Electronic Check Services Using the Simple Order API (PDF</td>
</tr>
<tr>
<td>Offline Transaction Submission</td>
<td>*Offline Transaction File Submission Implementation Guide (PDF</td>
</tr>
<tr>
<td>Payment Network Tokenization</td>
<td>*Payment Network Tokenization Using the Simple Order API (PDF</td>
</tr>
<tr>
<td>PINless Debit</td>
<td>*PINless Debit Card Services Using the Simple Order API (PDF</td>
</tr>
<tr>
<td>Recurring Billing</td>
<td>*Recurring Billing Using the Simple Order API (PDF</td>
</tr>
<tr>
<td>Reporting</td>
<td>*Reporting Developer Guide (PDF</td>
</tr>
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</table>
Table 1  Related Documents  (Continued)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple Order API</td>
<td>▪ Getting Started with CyberSource Advanced for the Simple Order API (PDF</td>
</tr>
<tr>
<td></td>
<td>▪ Simple Order API and SOAP Toolkit API Documentation and Downloads page.</td>
</tr>
<tr>
<td></td>
<td>▪ Simple Order API and SOAP Toolkit API Testing Information page.</td>
</tr>
<tr>
<td>Secure Acceptance Silent Order POST</td>
<td>Secure Acceptance Silent Order POST Development Guide (PDF</td>
</tr>
<tr>
<td>Secure Acceptance Web Mobile</td>
<td>Secure Acceptance Web/Mobile Configuration Guide (PDF</td>
</tr>
</tbody>
</table>

Customer Support

For support information about any CyberSource service, visit the Support Center:
http://www.cybersource.com/support
Introduction

Terminology

Payment Tokenization

Tokenization is the process of replacing sensitive card information and billing information with a unique identifier that cannot be reverse-engineered. The unique identifier is called a profile ID, also known as a payment token (see page 12) which you store on your server. Tokenization protects sensitive cardholder information in order to comply with industry standards and government regulations and can prevent the theft of card information in storage.

The payment tokenization solution is compatible with the Visa and MasterCard Account Updater service. All payment information stored with CyberSource is automatically updated by participating banks, thereby reducing payment failures. See the Account Updater User Guide (PDF | HTML) for more information.

Important: CyberSource payment tokenization and payment network tokenization are different features:

- The CyberSource token (the profile ID) is created by CyberSource and can be used only with CyberSource payment services.
- The payment network token is created by a token service provider and can be used throughout the financial network.

Payment Network Token

The payment network token is created by a token service provider and can be used throughout the financial network. The payment network token replaces the primary account number (PAN) that is stored in a customer profile. You can create a customer profile and include the payment net token (see page 27), update the payment network token details (see page 32), and replace a payment network token with updated card details (see page 34).
Profile ID

Contact CyberSource Customer Support to have your account configured for a 16-digit profile ID, or to update from a 22-digit profile ID to a 16-digit profile ID.

The profile ID, also known as the payment token, identifies the card and retrieves the associated billing, shipping, and card information of a customer profile. No sensitive card information is stored on your servers, reducing your PCI DSS obligations.

There are three types of profile IDs:

- 22 digit—the default profile ID.
- 16 digit—displays the last 4 digits of the primary account number (PAN) and passes Luhn mod-10 checks. This profile ID is for card customer profiles.
- 16 digit—displays 99 as the two leading digits and passes Luhn mod-10 checks. If your business rules prohibit using 99 as the leading digits, you must modify your system to accept the other 16-digit profile ID.

On-Demand Customer Profile

For information about recurring and installment customer profiles, see Recurring Billing Using the Simple Order API (PDF | HTML).

An on-demand customer profile contains specific information about a customer that you store in the CyberSource database for future billing. After you create a customer profile, the following tasks are available to you:

- Update customer profile information (see page 31).
- Change the payment method of a customer profile (see page 35).
- Process an on-demand transaction using the customer profile details. You can process an authorization, credit, PINless debit validate, PINless debit, eCheck credit, and an eCheck debit (see page 37).
- Retrieve customer profile information (see page 38).
- Delete a customer profile (see page 38).
- Share customer profiles (see page 40).
Secure Acceptance

Payment Token

If you are using Secure Acceptance to process transactions, the payment token is the customer profile ID (see page 12). The payment token identifies the card and retrieves the associated billing, shipping, and card information. For Secure Acceptance documentation, see "Related Documents," page 9.

Supported Processors and Payment Methods

Each customer profile has an associated payment method: card, eCheck, PINless debit, or other.

The other payment method enables you to store data securely in a customer profile. This payment method is useful if you do not intend to use the customer profile for payment transactions. You must use the CyberSource API services to submit a customer profile request with the other payment method. See "Optional Data Storage," page 39.

All the processors listed in the table below support automatic preauthorizations and manual preauthorizations. Unless stated otherwise, each processor in the table below supports 1.00 preauthorizations using all credit card types.

<table>
<thead>
<tr>
<th>Processor</th>
<th>Payment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIBMS</td>
<td>Credit card.</td>
</tr>
<tr>
<td>American Express Brighton</td>
<td>Credit card.</td>
</tr>
<tr>
<td></td>
<td>Important Only American Express card types are supported.</td>
</tr>
<tr>
<td></td>
<td>Important Does not support automatic preauthorization reversals.</td>
</tr>
<tr>
<td>American Express Direct</td>
<td>Debit card and pre-paid card—supports partial authorizations.</td>
</tr>
<tr>
<td></td>
<td>Important Only American Express card types are supported.</td>
</tr>
<tr>
<td>Asia-Mideast Processing</td>
<td>Credit card.</td>
</tr>
<tr>
<td>Barclays</td>
<td>Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
</tbody>
</table>
### Table 2  Supported Processors and Payment Methods (Continued)

<table>
<thead>
<tr>
<th>Processor</th>
<th>Payment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS (CAFIS)</td>
<td>Credit card.</td>
</tr>
<tr>
<td>Chase Paymentech Solutions</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, and Diners Club cards.</td>
</tr>
<tr>
<td></td>
<td>■ Electronic check.</td>
</tr>
<tr>
<td></td>
<td>■ Visa Bill Payments—see page 40.</td>
</tr>
<tr>
<td>Citibank</td>
<td>Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td>CyberSource ACH Service</td>
<td>Electronic check.</td>
</tr>
<tr>
<td>CyberSource through VisaNet</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Credit card—supports 1.00 preauthorizations for American Express, Discover, Diners Club, and JCB card types.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Diners Club, JCB, and Discover cards.</td>
</tr>
<tr>
<td>FDC Compass</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, and Diners Club cards.</td>
</tr>
<tr>
<td></td>
<td>■ Visa Bill Payments—see page 40.</td>
</tr>
<tr>
<td>FDC Nashville Global</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB (US Domestic) cards.</td>
</tr>
<tr>
<td></td>
<td>■ Visa Bill Payments—see page 40.</td>
</tr>
<tr>
<td>FDMS Nashville</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB (US Domestic) cards.</td>
</tr>
<tr>
<td></td>
<td>■ Visa Bill Payments—see page 40.</td>
</tr>
<tr>
<td>FDMS South</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, and JCB (US Domestic) cards.</td>
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</table>
Table 2  Supported Processors and Payment Methods (Continued)

<table>
<thead>
<tr>
<th>Processor</th>
<th>Payment Method</th>
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</thead>
<tbody>
<tr>
<td>Global Collect</td>
<td>Credit card.</td>
</tr>
<tr>
<td>GPN</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB cards.</td>
</tr>
<tr>
<td></td>
<td>■ PINless debit.</td>
</tr>
<tr>
<td></td>
<td>■ Visa Bill Payments—see page 40.</td>
</tr>
<tr>
<td>HSBC</td>
<td>Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
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<tr>
<td></td>
<td>Important Does not support automatic preauthorization reversals.</td>
</tr>
<tr>
<td>Litle</td>
<td>■ Credit card—supports 0.00 preauthorizations for American Express, Diners Club, Discover, JCB, MasterCard, and Visa cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB cards.</td>
</tr>
<tr>
<td>LloydsTSB Cardnet</td>
<td>Credit card.</td>
</tr>
<tr>
<td>Moneris</td>
<td>Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td>OmniPay-Ireland</td>
<td>■ Credit card—supports 0.00 preauthorizations using Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Visa Bill Payments—see page 40.</td>
</tr>
<tr>
<td>RBS WorldPay Atlanta</td>
<td>■ Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td></td>
<td>■ Electronic check.</td>
</tr>
<tr>
<td>Streamline</td>
<td>Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.</td>
</tr>
<tr>
<td>TeleCheck</td>
<td>Electronic check—supports 1.00 preauthorizations.</td>
</tr>
<tr>
<td>TSYS Acquiring Solutions</td>
<td>■ Credit card—supports 0.00 preauthorizations using Visa, MasterCard, American Express, and Discover cards.</td>
</tr>
<tr>
<td></td>
<td>■ Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB cards.</td>
</tr>
<tr>
<td></td>
<td>■ Visa Bill Payments—see page 40.</td>
</tr>
<tr>
<td></td>
<td>Important Does not support automatic preauthorization reversals.</td>
</tr>
</tbody>
</table>
# Types of Authorizations

<table>
<thead>
<tr>
<th>Authorization</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Preauthorization</td>
<td>Automatically preauthorize a credit card when you create a customer profile, or automatically preauthorize a bank account when you create a customer profile with new eCheck information. See page 22. Depending on the payment method and if your account is configured for Decision Manager, CyberSource automatically runs several fraud checks during a preauthorization: AVS and CVN checks for cards, and Decision Manager for cards and eChecks. <strong>Note</strong> Partial authorizations for prepaid cards and debit cards cannot be performed for automatic preauthorizations. <strong>Important</strong> Contact your merchant account provider to determine whether you will be charged a fee for a preauthorization.</td>
</tr>
<tr>
<td>Manual Preauthorization</td>
<td>Manually preauthorize a customer’s account for a nominal or zero amount when you create a customer profile. This feature is available only with the CyberSource API. See page 24. <strong>Important</strong> Contact your merchant account provider to determine whether you will be charged a fee for a preauthorization.</td>
</tr>
<tr>
<td>Automatic Preauthorization Reversal</td>
<td>If your processor supports full authorization reversal, you can contact CyberSource Customer Support to automatically reverse preauthorizations when you create a customer profile. CyberSource does not charge you for reversing automatic preauthorizations. If you cannot create a customer profile for any reason, or if the preauthorization amount is 0.00, CyberSource does not reverse the automatic preauthorization. <strong>Important</strong> TSYS Acquiring Solutions, American Express Brighton, and HSBC do not support automatic preauthorization reversals.</td>
</tr>
<tr>
<td>Partial Authorization</td>
<td>When the balance on a debit card or prepaid card is lower than the requested authorization amount, the issuing bank can approve a partial amount.</td>
</tr>
</tbody>
</table>
Authorization Consents

Authorization for Electronic Checks
To support customer profiles that use electronic checks, you must display a separate consent agreement accepted by the customer before you create the customer profile. The authorization statement must:

- Be readily identifiable as an authorization.
- Clearly and conspicuously state its terms including the transaction amount and the effective date of the transfer.
- Include the routing number and bank account number to be debited.
- Specify the frequency of the debits and the period of time during which the customer’s payment authorization is granted.
- Include instructions for revoking the authorization.

Authorization for PINless Debits
You must have a consent statement displayed on your web site or read to the customer over the phone and accepted by the customer before you create a customer profile for PINless debits. The authorization statement must:

- Be readily identifiable as an authorization.
- Clearly and conspicuously state its terms including the transaction amount and the effective date of the transfer.
- Include the account number to be debited.
- Clearly indicate that the authorization is for a one-time purchase.
- Include instructions for revoking the authorization.
Reporting

Subscription Detail Report
The Subscription Detail report provides detailed information about on-demand customer profiles and their transactions.

The Subscription Detail Report is available in XML and CSV formats. You can view the report on the Business Center, or you can use a client API to programmatically download the report.

For a detailed description of the Subscription Detail Report, and for details about downloading the report, see the Reporting Developer Guide (PDF | HTML).

Transaction Endpoints

Contact CyberSource Customer Support to configure your account for Payment Tokenization.

For live transactions, send requests to the production server:
https://ics2wsa.ic3.com/commerce/1.x/transactionProcessor

For test transactions, send requests to the test server:
https://ics2wstesta.ic3.com/commerce/1.x/transactionProcessor
When you use the test server, the payment method you are testing determines whether you use test card numbers (see page 19) or test account numbers. Search for and view your test subscriptions in the test version of the Business Center:
https://ebctest.cybersource.com

When you use the production server, the payment method you are testing determines whether you use real card numbers or real account numbers. Create customer subscriptions that use small amounts, such as 1.50. Search for and view your live customer subscriptions in the production version of the Business Center:
https://ebc.cybersource.com
## Test Card Numbers

You may use the following test credit card numbers for transactions:

<table>
<thead>
<tr>
<th>Credit Card Type</th>
<th>Test Account Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visa</td>
<td>4111111111111111</td>
</tr>
<tr>
<td>MasterCard</td>
<td>5555555555554444</td>
</tr>
<tr>
<td>American Express</td>
<td>378282246310005</td>
</tr>
<tr>
<td>Discover</td>
<td>6011111111111111</td>
</tr>
<tr>
<td>JCB</td>
<td>3566111111111111</td>
</tr>
<tr>
<td>Diners Club</td>
<td>3800000000000006</td>
</tr>
<tr>
<td>Maestro International (16 digits)</td>
<td>60003400000009859</td>
</tr>
<tr>
<td>Maestro Domestic (16 digits)</td>
<td>67591800000005546</td>
</tr>
</tbody>
</table>
CHAPTER 2

Requesting Payment Tokenization Services

Contact CyberSource Customer Support to configure your account for Payment Tokenization.

Important

Relaxed Requirements for Address Data and Expiration Date

Services:
- Authorization
- On-Demand credit

Processors:
- American Express Direct
- Chase Paymentech Solutions
- CyberSource through VisaNet
- FDC Compass
- FDC Nashville Global
- FDMS South
- Global Collect
- GPN

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

Historically, this data was mandated by CyberSource. With the advent of digital payments and an increasingly global e-commerce environment, CyberSource decided to relax the requirements for address data and expiration date.
Relaxed requirements for address data make the following fields optional when creating customer profiles:

- billTo_city
- billTo_country
- billTo_email
- billTo_firstname
- billTo_lastname
- billTo_postalCode: if you include this field in your request, you must also include billTo_country.
- billTo_state
- billTo_street1

Relaxed requirements for expiration date make the following fields optional when updating customer profiles:

- card_expirationMonth: if you include this field in your request, you must also include card_expirationYear.
- card_expirationYear: If you include this field in your request, you must also include card_expirationDate.

---

**Important**

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

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

---
Validating a Customer Profile

Three validation methods are available to you to validate a card or eCheck customer profile before you create it: charging a setup fee, automatically preauthorizing an account, or manually preauthorizing an account.

Charging a Setup Fee

This fee can be charged only for card and eCheck payments. It is a one-time optional fee that you can charge only when you are creating a customer profile. Include the setup fee in the `purchaseTotals_grandTotalAmount` field. See "Credit Card with a Setup Fee," page 26.

Important

CyberSource recommends that you do not enable partial authorizations for authorizing a setup fee. If the issuing bank approves a partial amount for the setup fee, the customer profile is not created.

Automatically Preauthorizing an Account

Only card payments and eCheck payments can be preauthorized, and CyberSource does not charge you for this feature. Before the customer profile is created, CyberSource authorizes a small amount against the payment method entered for the customer profile. Each payment processor supports different preauthorization amounts, see "Payment Tokenization," page 11.

If your account is configured for automatic preauthorizations, CyberSource automatically runs several fraud checks during a preauthorization depending on the payment method for the new customer profile:

- AVS checks—credit card only
- CVN checks—credit card only
- Decision Manager—credit card and electronic checks
If your payment processor supports full authorization reversals you can contact CyberSource Customer Support to automatically reverse preauthorizations. When you create a customer profile with automatic preauthorizations and automatic preauthorization reversals enabled, the order of services is:

1. Credit card authorization service for the preauthorization.
2. Subscription create service—only if the authorization is successful.
3. Full authorization reversal service—only if the authorization is successful and the preauthorization amount is not 0.00.

**To enable automatic preauthorizations:**

**Step 1** Log in to the Business Center:
- Live Transactions: https://ebc.cybersource.com
- Test Transactions: https://ebctest.cybersource.com

**Step 2** In the left navigation pane, choose Payment Tokenization > Settings.

**Step 3** Check Perform an automatic preauthorization before creating profile.

**Step 4** Click Submit Changes.

**To disable automatic preauthorizations:**

**Step 1** Request the paySubscriptionCreateService_run service. See "Creating an On-Demand Customer Profile," page 25.

**Step 2** In the paySubscriptionCreateService_run request, set the paySubscriptionCreateService_disableAutoAuth field to true.
Manually Preauthorizing a Customer Profile

This feature is available only for card payments and eCheck payments. You can manually preauthorize a customer profile when you create a customer profile.

If your processor supports full authorization reversals, and if you charged more than 0.00 for the preauthorization, CyberSource recommends that you subsequently request a full authorization reversal. See "Supported Processors and Payment Methods," page 13.

To manually preauthorize a card customer profile:

Step 1  Request the paySubscriptionCreateService_run service. See "Credit Card without a Setup Fee," page 25.

Step 2  Include the following fields:

- ccAuthService_run—set to true.
- purchaseTotals_grandTotalAmount—set to 0.00 or a small amount.

For all card type transactions on Atos and for MasterCard and American Express transactions on FDC Nashville Global, include the following fields:

- ccAuthService_commerceIndicator=recurring
- ccAuthService_firstRecurringPayment=TRUE
- card_cvNumber

See Credit Card Services Using the Simple Order API (PDF | HTML) for detailed descriptions of the above request fields.

To manually preauthorize an eCheck customer profile:

Step 1  Request the paySubscriptionCreateService_run service. See "eCheck," page 29.

Step 2  Include the following fields:

- ecDebitService_run—set to true.
- ecDebitService_paymentMode—set to 1.
PINless Debit Validation

PINless debits cannot be preauthorized. Instead, you must validate the card before you create the customer profile.

To validate a PINless debit card you must request the `pinlessDebitValidateService_run` service before requesting the `paySubscriptionCreateService_run` service.

For detailed information about requesting the `pinlessDebitValidateService_run` service, see the PINless Debit Card Services Using the Simple Order API (PDF | HTML).

Creating an On-Demand Customer Profile

Credit Card without a Setup Fee

You must validate the customer account before the customer profile is created. See "Validating a Customer Profile," page 22.

To create a customer a profile without a setup fee:

**Step 1** Set the `paySubscriptionCreateService_run` field to `true`.

**Step 2** Include the following fields in the request:
- `billTo_firstName`
- `billTo_lastName`
- `billTo_city`
- `billTo_country`
- `billTo_email`
- `billTo_postalCode`
- `billTo_state`
- `billTo_street1`
- `card_accountNumber`
- `card_cardType`
- `card_expirationMonth`
- `card_expirationYear`
- `merchantID`
Chapter 2  Requesting Payment Tokenization Services

- merchantReferenceCode
- purchaseTotals_currency
- recurringSubscriptionInfo_frequency—set to on-demand.

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.

---

Credit Card with a Setup Fee

You must validate the customer account before the customer profile is created. See "Validating a Customer Profile," page 22.

To create a customer a profile with a 5.00 setup fee:

**Step 1** Set the `paySubscriptionCreateService_run` service field to `true`.

**Step 2** Set the `ccAuthService_run` service field to `true`—authorizes the setup fee.

**Step 3** Set the `ccCaptureService_run` service field to `true`—captures the setup fee.

**Step 4** Include the following fields in the request:
- `purchaseTotals_grandTotalAmount`—setup fee amount.
- `billTo_firstName`
- `billTo_lastName`
- `billTo_city`
- `billTo_country`
- `billTo_email`
- `billTo_postalCode`
- `billTo_state`
- `billTo_street1`
- `card_accountNumber`
- `card_cardType`
- `card_expirationMonth`
- `card_expirationYear`
- `merchantID`
- `merchantReferenceCode`
- `purchaseTotals_currency`
- `recurringSubscriptionInfo_frequency`—set to on-demand.
Chapter 2  Requesting Payment Tokenization Services

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.

Including the Payment Network Token

You can request an authorization before requesting a subscription create. For the authorization request details, see Payment Network Tokenization Using the Simple Order API (HTML | PDF).

To create a customer profile including the payment network token:

**Step 1** Set the `paySubscriptionCreateService_run` field to `true`.

**Step 2** Set the `ccAuthService_run` field to `true`.

**Step 3** For Visa cards include the following fields:
- `ccAuthService_commerceIndicator=vvb`.
- `ccAuthService_cavv`—populate with the cryptogram value.
- `ccAuthService_xid`—populate with the cryptogram value.
- `card_cardType=001`.

For MasterCard cards include the following fields:
- `ccAuthService_commerceIndicator=spa`.
- `ccAuthService_cavv`—populate with the cryptogram value.
- `ucaf_collectionIndicator=2`.
- `card_cardType=002`.

For American Express cards include the following fields:
- `ccAuthService_commerceIndicator=aesk`.
- `ccAuthService_cavv`—populate with block A of the cryptogram value.
- `ccAuthService_xid`—populate with block B of the cryptogram value.
- `card_cardType=003`.

**Step 4** Include the following fields in the request:
- `billTo_firstName`
- `billTo_lastName`
- `billTo_city`
- `billTo_country`
- `billTo_email`
- `billTo_postalCode`
Chapter 2  Requesting Payment Tokenization Services

- billTo_state
- billTo_street1
- card_accountNumber—populate with the network token value obtained from your payment network token provider.
- card_cardTypecard_expirationMonth—populate with the network token expiration month obtained your payment network token provider.
- card_expirationYear—populate with the network token expiration year obtained your payment network token provider.
- paymentNetworkToken_transactionType—set to 1.
- paymentNetworkToken_requestorID—this field is supported only for CyberSource through VisaNet.
- merchantID
- merchantReferenceCode
- purchaseTotals_currency
- recurringSubscriptionInfo_frequency—set to on-demand.

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
eCheck

You must validate the customer account before the customer profile is created. See "Validating a Customer Profile," page 22.

To create an eCheck customer a profile:

Step 1 Set the `paySubscriptionCreateService_run` service field to `true`.

Step 2 Include the following fields in the request:

- `subscription_paymentMethod`—set to `check`.
- `billTo_firstName`
- `billTo_lastName`
- `billTo_city`
- `billTo_country`
- `billTo_email`
- `billTo_postalCode`
- `billTo_state`
- `billTo_street1`
- `billTo_phoneNumber`—contact your payment processor representative to learn whether this field is required or optional.
- `merchantID`
- `merchantReferenceCode`
- `purchaseTotals_currency`
- `recurringSubscriptionInfo_frequency`—set to `on-demand`.
- `billTo_dateOfBirth`
- `billTo_driversLicenseNumber`—contact your TeleCheck representative to learn whether this field is required or optional.
- `billTo_driversLicenseState`—contact your TeleCheck representative to learn whether this field is required or optional.
- `billTo_companyTaxID`—contact your TeleCheck representative to learn whether this field is required or optional.
- `check_accountNumber`
- `check_accountType`
- `check_bankTransitNumber`
- `check_secCode`—this field is required if your processor is TeleCheck.
- `check_checkNumber`—contact your payment processor representative to learn whether this field is required or optional.
Chapter 2  Requesting Payment Tokenization Services

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.

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**PINless Debit**

You must validate the customer account before the customer profile is created. See "PINless Debit Validation," page 25.

---

To create a PINless debit customer profile:

**Step 1** Set the `paySubscriptionCreateService_run` service field to `true`.

**Step 2** Include the following fields in the request:

- `subscription_paymentMethod`—set to `pinless debit`.
- `billTo_firstName`
- `billTo_lastName`
- `billTo_city`
- `billTo_country`
- `billTo_email`
- `billTo_postalCode`
- `billTo_state`
- `billTo_street1`
- `card_accountNumber`
- `card_expirationMonth`
- `card_expirationYear`
- `merchantID`
- `merchantReferenceCode`
- `purchaseTotals_currency`
- `recurringSubscriptionInfo_frequency`—set to `on-demand`.

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
Chapter 2  Requesting Payment Tokenization Services

Updating a Customer Profile

You can update all fields except the `recurringSubscriptionInfo_frequency` field. If your account is configured to use a 16-digit format-preserving profile ID (see page 12), and you update the card number, you receive a new profile ID if the last four digits of the new card number are different from the previous card number. The status of the previous profile ID changes to `superseded`. You cannot update, delete, or cancel a customer profile that has a status of `superseded`.

Important

Updating Card Information

To update a customer’s card information:

**Step 1**  Set the `paySubscriptionUpdateService_run` service field to `true`.

**Step 2**  Include the following fields in the request:

- `card_accountNumber`
- `card_cardType`
- `card_expirationMonth` 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 20.
- `card_expirationYear` 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 20.
- `merchantID`
- `merchantReferenceCode`
- `recurringSubscriptionInfo_subscriptionID`

When you update the card number for a customer profile, CyberSource recommends that you validate the customer profile. See "Validating a Customer Profile," page 22. New billing and shipping information can be included in the request.

Note

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
Chapter 2  Requesting Payment Tokenization Services

Replacing Card Information With a Payment Network Token

You can replace the customer’s card information, which is stored in the customer profile, with a payment network token. For more information about payment network tokens, see page 11.

Note
Updated billing and shipping information can also be included in the request.
To remove a value that is stored in the customer profile, include the relevant API field in the request but do not include a value for the field.

To replace a customer’s card information with a payment network token:

Step 1 Set the paySubscriptionUpdateService_run service field to true.

Step 2 Include the following fields in the request:

- card_accountNumber—populate with the network token value obtained from your payment network token provider
- card_cardType—must be 001, 002, or 003.
- card_expirationMonth—populate with the network token expiration month obtained from your payment network token provider.
- card_expirationYear—populate with the network token expiration year obtained from your payment network token provider.
- paymentNetworkToken_transactionType—set to 1.
- paymentNetworkToken_requestorID—this field is supported only for CyberSource through VisaNet.
- merchantID
- merchantReferenceCode
- recurringSubscriptionInfo_subscriptionID

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
### Updating Payment Network Token Information

You can update the payment network token information that is stored in the customer profile. For more information about payment network tokens, see page 11.

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**Note**

Updated billing and shipping information can also be included in the request. To remove a value that is stored in the customer profile, include the relevant API field in the request but do not include a value for the field.

---

**To update a customer's payment network token:**

**Step 1** Set the `paySubscriptionUpdateService_run` service field to `true`.

**Step 2** Include the following fields in the request:

- `card_accountNumber`—populate with the network token value obtained from your payment network token provider.
- `card_cardType`—must be 001, 002, or 003.
- `card_expirationMonth`—populate with the network token expiration month obtained from your payment network token provider.
- `card_expirationYear`—populate with the network token expiration year obtained from your payment network token provider.
- `paymentNetworkToken_transactionType`—set to 1.
- `paymentNetworkToken_requestorID`—this field is supported only for CyberSource through VisaNet.
- `merchantID`
- `merchantReferenceCode`
- `recurringSubscriptionInfo_subscriptionID`

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
Replacing a Payment Network Token With Card Information

You can replace the customer’s payment network token, which is stored in the customer profile, with the customer’s card information instead. For more information about payment network tokens, see page 11.

---

**Note**
Updated billing and shipping information can also be included in the request. To remove a value that is in against the customer profile, include the relevant API field in the request but do not include a value for the field.

---

**To update a customer’s payment network token to card information:**

**Step 1** Set the `paySubscriptionUpdateService_run` service field to true.

**Step 2** Include the following fields in the request:
- `card_accountNumber`
- `card_cardType`
- `card_expirationMonth`
- `card_expirationYear`
- `paymentNetworkToken_transactionType`—include an empty value in this field.
- `paymentNetworkToken_requestorID`—include an empty value in this field.
- `merchantID`
- `merchantReferenceCode`
- `recurringSubscriptionInfo_subscriptionID`

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
Changing the Payment Method of a Customer Profile

You must validate the customer account before the customer profile is created. See "Validating a Customer Profile," page 22. When you create a customer profile from an existing transaction, the account is already validated.

You cannot change the payment method to or from the Other payment method. The Other payment method enables you to store data securely in a customer profile. This payment method is useful if you do not intend to use the customer profile for payment transactions. See "Optional Data Storage," page 39.

To change the payment method of a customer profile:

**Step 1** Set the `paySubscriptionUpdateService_run` service field to true.

**Step 2** Include the following fields in the request:

- `subscription_paymentMethod`—change to `card` (see page 25), `check` (see page 29), or `pinless debit` (see page 30).
- `merchantID`
- `merchantReferenceCode`
- `recurringSubscriptionInfo_subscriptionID`

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
Chapter 2 Requesting Payment Tokenization Services

Requesting an On-Demand Transaction

An on-demand transaction is a real-time transaction using the details stored in a customer profile. The on-demand transactions that you can request are:

- Credit cards—authorization, sale (an authorization and a capture combined), and credit.
- Electronic checks—debit and credit.
- PINless debits—debit.

To request an on-demand sale transaction:

**Step 1** Set the `ccAuthService_run` service field to `true`.

**Step 2** Set the `ccCaptureService_run` service field to `true`.

**Step 3** Include the following fields in the request:
- `merchantID`
- `merchantReferenceCode`
- `purchaseTotals_currency`
- `purchaseTotals_grandTotalAmount`
- `recurringSubscriptionInfo.subscriptionID`

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.

To request an on-demand credit transaction:

**Step 1** Set the `ccCreditService_run` service field to `true`.

**Step 2** Include the following fields in the request:
- `merchantID`
- `merchantReferenceCode`
- `purchaseTotals_currency`
- `purchaseTotals_grandTotalAmount`
- `recurringSubscriptionInfo.subscriptionID`
Chapter 2  Requesting Payment Tokenization Services

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields.

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Converting a Transaction to a Customer Profile

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Important
Transaction information resides in the CyberSource database for 60 days after the transaction is processed. When you create a customer profile from an existing transaction, the account is already validated. You can charge a setup fee. See "Charging a Setup Fee," page 22.

---

Note
If you account is configured to use automatic preauthorizations, CyberSource does not perform a preauthorization when you convert a transaction to a customer profile.

To convert a transaction to a customer profile:

**Step 1**
Set the `paySubscriptionCreateService_run` field to `true`.

**Step 2**
Include the following fields in the request:
- merchantID
- merchantReferenceCode
- `recurringSubscriptionInfo_frequency`—set to `on-demand`.
- `paySubscriptionCreateService_paymentRequestID`—include the request ID value returned from the original transaction request.

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
Retrieving a Customer Profile

To retrieve a customer profile:

**Step 1** Set the `paySubscriptionRetrieveService_run` field to `true`.

**Step 2** Include the following fields in the request:
- merchantID
- merchantReferenceCode
- recurringSubscriptionInfo_subscriptionID

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.

Deleting a Customer Profile

Deleting a customer profile is permanent. When a profile is deleted, any profiles it superseded are also deleted.

To delete a customer profile:

**Step 1** Set the `paySubscriptionDeleteService_run` field to `true`.

**Step 2** Include the following fields in the request:
- merchantID
- merchantReferenceCode
- recurringSubscriptionInfo_subscriptionID

See Appendix A, "API Fields," on page 46 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 78 for a request and reply example.
Optional Data Storage

Each payment method enables you to store data securely in a customer profile. If you are using the Other payment method, you must use CyberSource API services to submit a customer profile request. This payment method is useful if you do not intend to use the customer profile for payment transactions.

You can include two types of data storage fields in a customer profile:

- **merchantSecureData_field1 to 4**—CyberSource encrypts this data before storing it in the database. The validation performed on these fields is a size check. Fields 1 to 3 are string (100) and the fourth field is string (2K). You can include any data in the encrypted fields.

- **merchantDefinedData_field1 to 4**—CyberSource does not encrypt these fields before storing them in the database. Legal limitations exist on the type of data that you can include in the unencrypted fields.

Warning

Merchant-defined data fields are not intended to and MUST NOT be used to capture personally identifying information. Accordingly, merchants are prohibited from capturing, obtaining, and/or transmitting any personally identifying information in or via the merchant-defined data fields. Personally identifying information includes, but is not limited to, card number, social security number, driver's license number, state-issued identification number, passport number, and card verification numbers (CVV, CVC2, CVV2, CID, CVN). In the event CyberSource discovers that a merchant is capturing and/or transmitting personally identifying information via the merchant-defined data fields, intentionally or not, CyberSource WILL immediately suspend the merchant's account, which will result in a rejection of any and all transaction requests submitted by the merchant after the point of suspension.

Note

When you create a customer profile based on an existing transaction, the merchant-defined data fields are not transferred to the new customer profile.
Visa Bill Payment Program

This feature is a transaction indicator for specific authorization or credit requests that Visa wants to differentiate from other types of purchases and credits. Customers can use their Visa cards to pay bills, such as monthly utility bills. Visa requests that you flag the bill payments and credits so that they can be easily identified.

When you create a customer profile using a Visa card, set the `recurringsubscriptionInfo_billPayment` to true. This value is case sensitive.

When you process a one-time payment, set the `ccAuthService_billPayment` field to true. This value is case sensitive.

When you process a one-time credit, set the `ccCreditService_billPayment` field to true. This value is case sensitive.

For more information about the Visa Bill payment Program and the processors that support it, see Credit Card Services Using the Simple Order API (PDF | HTML).

Customer Profile Sharing

Contact CyberSource Customer Support to enable your account for profile sharing.

When you create a customer profile, your CyberSource merchant ID is associated with that profile. You can share customer profiles among merchant IDs, and you can access customer profiles that were created with other CyberSource merchant IDs.

You can:

- Create a customer subscription by converting an existing transaction that was processed with a CyberSource merchant ID other than your own.
- Retrieve customer profile information—in your request include your merchant ID and the profile ID of the customer profile (see page 38). If the customer profile is not enabled for profile sharing, CyberSource returns the reason code 150 (see page 71).
- Update customer profile information—in your request include your merchant ID and the profile ID of the customer profile (see page 31). If the customer profile is not enabled for profile sharing, CyberSource returns the reason code 150 (see page 71).
- Perform an on-demand transaction using the customer profile—in your request include your merchant ID and the profile ID of the customer profile (see page 36). If the customer profile is not enabled for profile sharing, CyberSource returns the reason code 150 (see page 71).
You cannot delete a customer profile that has a merchant ID other than your own.

Account Updater

You must comply with the Account Updater Terms of Use. See the Account Updater User Guide (PDF | HTML).

Important

CyberSource Account Updater is integrated with the Recurring Billing functionality so that your customer subscriptions can be kept up-to-date with the latest credit card data changes. These changes can include a new expiration date, a new credit card number, or a brand change such as a change from Visa to MasterCard.

You must enroll in the Visa Account Updater program and the MasterCard Automatic Billing Updater program or both before you can use CyberSource Account Updater. Contact your account representative to enroll in Account Updater. CyberSource will submit enrollment forms on your behalf to both MasterCard and Visa. The enrollment process can take up to 10 business days.

After your enrollment forms are processed, CyberSource:
- Configures your account to automatically update your customer subscriptions with updated credit card data.
- Updates your customer subscriptions once per month.
- Requests updates only for customer subscriptions with a status of active or on-hold. Updates for customer subscriptions with a status of completed or cancelled cannot be requested.

To have your customer subscriptions updated on a particular day of the month to coincide with your billing cycle, contact Customer Support to make this request. It is best practice to request updates for your customer subscriptions 3 to 5 days before your billing cycle begins. You can choose any calendar day, 1 through 28.
Account Updater Profile Update Report

From 24 to 48 hours after your scheduled customer subscription update, an Account Updater Profile Update report is available for download. You can download the report from the Business Center or through a query API with a client application.

To download the Profile Update report:

Step 1 In the left navigation panel, choose Reports > Report Search. The Report Search window appears.

Step 2 From the Report drop-down list, choose All.

Step 3 From the Frequency drop-down list, choose Daily.

Step 4 Choose the day that your reports were processed.

Step 5 Click Submit. The report is listed in the Downloadable Reports table.

Step 6 Click the Download link next to the report name.

To connect to the report server, your client application must support HTTPS connections:

- HTTP/1.0 or HTTP/1.1
- TLS 1.2 or above

Your client application must use Basic Access Authentication to send the username and password. Many HTTPS client libraries implement this authentication method. For more information about Basic Access Authentication, see:

http://www.ietf.org/rfc/rfc2617.txt

To request a report, your client application must send an HTTP GET message to the report server. Use this URL format for the request:


<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;server_name&gt;</td>
<td>Name of the server from which to download the report. Use one of these values:</td>
</tr>
<tr>
<td></td>
<td>- Test server: ebctest.cybersource.com/ebctest</td>
</tr>
<tr>
<td></td>
<td>- Production server: ebc.cybersource.com/ebc</td>
</tr>
<tr>
<td>YYYY</td>
<td>Four-digit year.</td>
</tr>
<tr>
<td>MM</td>
<td>Two-digit month.</td>
</tr>
<tr>
<td>DD</td>
<td>Two-digit day.</td>
</tr>
<tr>
<td>&lt;merchant_id&gt;</td>
<td>CyberSource merchant ID.</td>
</tr>
</tbody>
</table>
Records in the Account Updater Profile
Update Report

Header Records

Table 5  Header Records

<table>
<thead>
<tr>
<th>Order</th>
<th>Field Name</th>
<th>Description</th>
<th>Max. No. of Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Record Identifier</td>
<td>Constant value indicating the record type. Format: H</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>File Classification</td>
<td>Indicates file type. Format: cybs.au.response.ss</td>
<td>30</td>
</tr>
<tr>
<td>3</td>
<td>Merchant ID</td>
<td>CyberSource Merchant ID. Format: Alphanumeric</td>
<td>30</td>
</tr>
<tr>
<td>4</td>
<td>Batch ID</td>
<td>Unique identifier for the batch, generated by CyberSource. Format: Numeric</td>
<td>30</td>
</tr>
</tbody>
</table>

Details Records

Table 6  Details Records

<table>
<thead>
<tr>
<th>Order</th>
<th>Field Name</th>
<th>Description</th>
<th>Max. No. of Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Record Identifier</td>
<td>Constant value indicating the record type. Format: D</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Account Updater Request ID</td>
<td>Unique CyberSource identifier for the record. Format: Numeric</td>
<td>30</td>
</tr>
<tr>
<td>3</td>
<td>Profile ID</td>
<td>The value that identifies the profile. CyberSource returned this value when the profile was created. Format: Numeric</td>
<td>16 or 22</td>
</tr>
</tbody>
</table>
### Table 6  Details Records (Continued)

<table>
<thead>
<tr>
<th>Order</th>
<th>Field Name</th>
<th>Description</th>
<th>Max. No. of Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>New Card Number</td>
<td>New card number with 8 digits masked. Format: Alphanumeric</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If no new card number is available, this field is populated with the current card number.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Response Code</td>
<td>Return code for the record. Customer profiles with a response code of ACL are moved to a cancelled state. Format: Alphabetic</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>Old Card Number</td>
<td>Old card number with 8 digits masked. Format: Alphanumeric</td>
<td>19</td>
</tr>
<tr>
<td>8</td>
<td>Old Card Expiry Month</td>
<td>Expiration month of the old card. Format: MM</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Old Card Expiry Year</td>
<td>Expiration year of the old card. Format: YY</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>New Card Expiry Month</td>
<td>Expiration date of the new card. Format: MM</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>New Card Expiry Year</td>
<td>Expiration year of the new card. Format: YY</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>New Profile ID</td>
<td>The new value that identifies the customer profile. This value supersedes the previous profile ID. CyberSource returns this value when the profile is updated. Format: Numeric</td>
<td>16</td>
</tr>
</tbody>
</table>

1 For more information, see the “Record Level Response Codes” and “Record Level Reason Codes” sections in the Account Updater User Guide (PDF | HTML).

### Footer Records

### Table 7  Footer Records

<table>
<thead>
<tr>
<th>Order</th>
<th>Field Name</th>
<th>Description</th>
<th>Max. No. of Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Record Identifier</td>
<td>Constant value indicating the record type. Format: F</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Record Count</td>
<td>The number of detail records in the file. Format: Numeric</td>
<td>—</td>
</tr>
</tbody>
</table>
### Table 7  Footer Records (Continued)

<table>
<thead>
<tr>
<th>Order</th>
<th>Field Name</th>
<th>Description</th>
<th>Max. No. of Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Response Code</td>
<td>Indicates the overall response.(^1) Format: Alphabetic Possible values: DEC: Declined COM: Completed</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Reason Code</td>
<td>Indicates the overall reason for the response code.(^1) Format: Numeric</td>
<td>3</td>
</tr>
</tbody>
</table>

\(^1\) For more information, see the “Record Level Response Codes” and “Record Level Reason Codes” sections in the Account Updater User Guide (PDF | HTML).
API Fields

The Payment Tokenization service names in the API field tables have been shortened:

<table>
<thead>
<tr>
<th>Service Name</th>
<th>Shortened Service Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>paySubscriptionCreateService</td>
<td>Create</td>
</tr>
<tr>
<td>paySubscriptionDeleteService</td>
<td>Delete</td>
</tr>
<tr>
<td>paySubscriptionUpdateService</td>
<td>Update</td>
</tr>
<tr>
<td>paySubscriptionRetrieveService</td>
<td>Retrieve</td>
</tr>
</tbody>
</table>

Data Type Definitions

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

<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>
## Appendix A
### API Fields

### Request Fields

**Table 8 Request Fields**

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_city</td>
<td>City of the billing address.</td>
<td>Create (R)</td>
<td>String (50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update (O)</td>
<td></td>
</tr>
<tr>
<td>billTo_company</td>
<td>Name of the customer’s company.</td>
<td>Create (O)</td>
<td>String (60)</td>
</tr>
<tr>
<td></td>
<td><em><strong>CyberSource through VisaNet</strong></em></td>
<td>Update (O)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Credit card networks cannot process transactions that contain non-ASCII characters. CyberSource through VisaNet accepts and stores non-ASCII characters correctly and displays them correctly in reports. However, the limitations of the credit card networks prevent CyberSource through VisaNet from transmitting non-ASCII characters to the credit card networks. Therefore, CyberSource through VisaNet replaces non-ASCII characters with meaningless ASCII characters for transmission to the credit card networks.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>billTo_companyTaxID</td>
<td>Tax identifier for the customer’s company.</td>
<td>Create (see description)</td>
<td>String (9)</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong> Contact your TeleCheck representative to find out whether this field is required or optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>billTo_customerID</td>
<td>Your identifier for the customer.</td>
<td>Create (O)</td>
<td>String (100)</td>
</tr>
<tr>
<td></td>
<td>Update (O)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>billTo_dateOfBirth</td>
<td>Customer date of birth. Format: YYYY-MM-DD or YYYYMMDD</td>
<td>Create (O)</td>
<td>String (10)</td>
</tr>
<tr>
<td></td>
<td>Update (O)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>billTo_driversLicenseNumber</td>
<td>Customer’s driver’s license number.</td>
<td>Create (see description)</td>
<td>String (30)</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong> Contact your TeleCheck representative to find out whether this field is required or optional.</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 20. 

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

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_driversLicenseState</td>
<td>State or province in which the customer’s driver’s license was issued. Use the two-character ISO state and province code.</td>
<td>Create (see description) Update (see description)</td>
<td>String (2)</td>
</tr>
<tr>
<td></td>
<td>Important Contact your TeleCheck representative to find out whether this field is required or optional.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>billTo_email</td>
<td>Customer email address.</td>
<td>Create (R)¹ Update (O)</td>
<td>String (255)</td>
</tr>
<tr>
<td>billTo_firstName</td>
<td>Customer first name.</td>
<td>Create (R)¹ Update (O)</td>
<td>String (60)</td>
</tr>
<tr>
<td>billTo_lastName</td>
<td>Customer last name.</td>
<td>Create (R)¹ Update (O)</td>
<td>String (60)</td>
</tr>
</tbody>
</table>
| billTo_phoneNumber                  | Customer phone number. When creating a customer profile, the requirements depend on the payment method:  
   - Credit cards—optional.  
   - Electronic checks—contact your payment processor representative to find out if this field is required or optional.  
   - PINless debits—optional.  | Create (see description) Update (see description) | String (15)        |
| billTo_postalCode                   | Postal code for the billing address. The postal code must consist of 5 to 9 digits.  
   If the billing country is the U.S., the 9-digit postal code must follow this format:  
   [5 digits][dash][4 digits]  
   Example: 12345-6789  
   If the billing country is Canada, the 6-digit postal code must follow this format:  
   [alpha][numeric][alpha][space]  
   [numeric][alpha][numeric]  
   Example: A1B 2C3  | Create (R)¹ Update (O) | CyberSource through VisaNet: String (9)  
                             | All other processors: String (10)  | String (10)        |
| billTo_state                        | State or province in the billing address. Use the two-character ISO state and province code.  
   Important Required when the billing country is the U.S. or Canada; otherwise, optional.  | Create (See description)¹ Update (O)     | String (2)         |

¹. This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date.  
See "Relaxed Requirements for Address Data and Expiration Date," page 20. Important It is your responsibility to determine whether a field is required for the transaction you are requesting.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>billTo_street1</td>
<td>First line of the billing address.</td>
<td>Create (R)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>CyberSource through VisaNet: String (40)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update (O)</td>
<td>Litle: String (35)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Moneris: String (50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All other processors: String (60)</td>
</tr>
<tr>
<td>billTo_street2</td>
<td>Second line of the billing address.</td>
<td>Create (O)</td>
<td>CyberSource through VisaNet: String (40)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update (O)</td>
<td>Litle: String (35)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Moneris: String (50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All other processors: String (60)</td>
</tr>
<tr>
<td>businessRules_declineAVSFlags</td>
<td>List of AVS codes that cause the customer profile creation request to be declined for AVS reasons. Use a space to separate the codes in the list. Use this field only if you are using automatic preauthorization. See “AVS and CVN Codes,” page 74.</td>
<td>Create (O)</td>
<td>String (255)</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong> You must include the value N in the list if you want to receive declines for the AVS code N.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<sup>1</sup> This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 8  Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| **businessRules_ignoreAVSResult** | Indicates whether CyberSource should ignore the results of the AVS check and create the customer profile even if the credit card does not pass the AVS check. Use this field only if you are using automatic preauthorization. Possible values:  
  - true: Ignore the results of the AVS check and create the customer profile.  
  - false (default): If the AVS check fails, do not create the customer profile.  
  When this value is true, the list in the businessRules_declineAVSFlags field is ignored. | Create (O) | String (5) |
| **card_accountNumber** | Card account number.                                                        | Create (R for card payments)         | String (20)        |
|                     | Update (O)                                                                  |                                      |                    |

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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 8 Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| card_cardType | Type of card to authorize. For more information about which cards can be handled by each processor, see "Supported Processors and Payment Methods," page 13. Possible values:  
  - 001: Visa  
  - 002: MasterCard, Eurocard—European regional brand of MasterCard  
  - 003: American Express  
  - 004: Discover  
  - 005: Diners Club  
  - 006: Carte Blanche  
  - 007: JCB  
  - 014: EnRoute  
  - 021: JAL  
  - 024: Maestro (UK Domestic)  
  - 031: Delta—use this value only for Global Collect. For other processors, use 001 for all Visa card types.  
  - 033: Visa Electron  
  - 034: Dankort  
  - 036: Carte Bleu  
  - 037: Carta Si  
  - 042: Maestro (International)  
  - 043: GE Money UK card—before setting up your system to work with GE Money UK cards, contact the CyberSource UK Support Group. | Create (R for card payments)  
Update (O) | String (3) |

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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
Table 8  Request Fields  (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>card_cvIndicator</td>
<td>Indicates whether a card verification number was included in the request. Possible values:</td>
<td>Create (O)</td>
<td>String with numbers only</td>
</tr>
<tr>
<td></td>
<td>• 0 (default): CVN service not requested. This default is used if you do not include</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td></td>
<td>card_cvNumber in the request.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 1 (default): CVN service requested and supported. This default is used if you include</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>card_cvNumber in the request.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 2: CVN on credit card is illegible.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 9: CVN was not imprinted on credit card.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>card_cvNumber</td>
<td>Card verification number. Include this field only if you are using automatic preauthorization</td>
<td>Create (O)</td>
<td>String with numbers only</td>
</tr>
<tr>
<td></td>
<td>and want to run the CVN check. See page 22.</td>
<td></td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td>Do not include this field if your processor is Global Collect.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>card_expirationMonth</td>
<td>Expiration month. Format: MM</td>
<td>Create (R for card payments)</td>
<td>String (2)</td>
</tr>
<tr>
<td></td>
<td>Update¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>card_expirationYear</td>
<td>Expiration year. Format: YYYY</td>
<td>Create (R for card payments)</td>
<td>String (4)</td>
</tr>
<tr>
<td></td>
<td><strong>FDC Nashville Global and FDMS South</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>You can send in 2 digits or 4 digits. When you send in 2 digits, they must be the last 2 digits of the year.</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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 8  Request Fields  (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>card_issueNumber</td>
<td>Indicates the number of times a Maestro (UK Domestic) card has been issued to the account holder. The card might or might not have an issue number; the field is required if the card has an issue number. The number can consist of one or two digits, and the first digit might be a zero. Include exactly what is printed on the card—a value of 2 is different than a value of 02. Do not include the field, even with a blank value, if the card is not a Maestro (UK Domestic) card.</td>
<td>Create (see description)</td>
<td>String (5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update (O)</td>
<td></td>
</tr>
<tr>
<td>card_startMonth</td>
<td>Month of the start of the Maestro (UK Domestic) card validity period. The card might or might not have a start date printed on it; the field is required if the card has a start date. Do not include the field, even with a blank value, if the card is not a Maestro (UK Domestic) card. Format: MM Possible values: 01 to 12.</td>
<td>Create (see description)</td>
<td>Integer (2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update (O)</td>
<td></td>
</tr>
<tr>
<td>card_startYear</td>
<td>Year of the start of the Maestro (UK Domestic) card validity period. The card might or might not have a start date printed on it; the field is required if the card has a start date. Do not include the field, even with a blank value, if the card is not a Maestro (UK Domestic) card. Format: YYYY</td>
<td>Create (see description)</td>
<td>Integer (4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update (O)</td>
<td></td>
</tr>
<tr>
<td>ccAuthService_cavv</td>
<td><strong>Visa</strong> Cryptogram for payment network tokenization transactions. The value for this field must be 28 character base64 or 40-character hex binary. All cryptograms use one of these formats. <strong>American Express</strong> Block A of the cryptogram for payment network tokenization transactions. The value for this field must be 28-character base64 or 40-character hex binary. All cryptograms use one of these formats.</td>
<td>Create (R-required for payment network token transactions with Visa and American Express)</td>
<td>String (40)</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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
**Table 8  Request Fields (Continued)**

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| ccAuthService_commerceIndicator | In-App Transactions Type of payer authentication fields that are being used for the payment network tokenization transaction. Possible values:  
  - aesk: American Express SafeKey  
  - spa: MasterCard SecureCode  
  - vbv: Verified by Visa | Create (R-required for payment network tokenization transaction) | String (13) |
| ccAuthService_xid            | Visa Cryptogram for payment network tokenization transactions. The value for this field must be 28-character base64 or 40-character hex binary. All cryptograms use one of these formats.  
  **American Express** Block B of the cryptogram for payment network tokenization transactions. The value for this field must be 28-character base64 or 40-character hex binary. All cryptograms use one of these formats. | Create (R-required for payment network tokenization transactions with Visa and American Express) | String (40) |
| check_accountNumber         | Checking account number.                                                    | Create (R for eCheck payments) Update (O) | String (17) |
| check_accountType           | Checking account type. Possible values:  
  - C: checking  
  - S: savings (USD only)  
  - X: corporate checking (USD only) | Create (R for eCheck payments) Update (O) | String (1) |
| check_bankTransitNumber     | Bank routing number. This value is also known as the transit number.        | Create R for eCheck payments Update (O) | String (9) |

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

#### Table 8  Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>check_secCode</td>
<td>Important This field is required if your processor is TeleCheck.</td>
<td>Create (R) Update (O)</td>
<td>String (3)</td>
</tr>
</tbody>
</table>

*Code that specifies the authorization method for the transaction. Possible values:*

- **CCD**: Corporate cash disbursement—charge or credit to a business checking account. You can use one-time or recurring CCD transactions to transfer funds to or from a corporate entity.

- **PPD**: Prearranged payment and deposit entry—charge or credit to a personal checking or savings account. You can originate a PPD entry only when the payment and deposit terms between you and the customer are prearranged. A written authorization from the customer is required for one-time transactions.

- **TEL**: Telephone-initiated entry—one-time charge to a personal checking or savings account. You can originate a TEL entry only when there is a business relationship between you and the customer or when the customer initiates a telephone call to you. For a TEL entry, you must obtain a payment authorization from the customer over the telephone.

- **WEB**: Internet-initiated entry—charge to a personal checking or savings account. You can originate a one-time or recurring WEB entry when the customer initiates the transaction over the Internet. For a WEB entry, you must obtain payment authorization from the customer over the Internet.

---

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

#### API Fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>decisionManager_enabled</td>
<td>Indicates whether to use Decision Manager for a customer profile.</td>
<td>Create (O)</td>
<td>String (5)</td>
</tr>
</tbody>
</table>
|                             | Use this field only if you are using Decision Manager and are configured to use automatic preauthorizations as described in "Automatically Preauthorizing an Account," page 22. Also see "Supported Processors and Payment Methods," page 13. If your account is enabled for Decision Manager, Decision Manager will be used on the preauthorization that occurs before the customer profile is created. You can use this field to turn off Decision Manager for the preauthorization for this specific customer profile. Possible values:  
- false: Do not use Decision Manager for this customer profile.  
- true (default): Use Decision Manager for this customer profile. For more information about Decision Manager, see the Decision Manager Developer Guide Using the Simple Order API (PDF | HTML). |                                    |                    |

| ignoreCardExpiration       | Indicates whether to ignore a card expiration date when creating a subscription.               | Create (O)                          | String (5)         |
|                            | Possible values:                                                                             |                                      |                    |
|                            | - false: Do not ignore the card expiration date.                                              |                                      |                    |
|                            | - true: Ignore the card expiration date.                                                     |                                      |                    |
| **Note**                   | If set to true, the paySubscriptionCreateService_disableAutoAuth field must also be set to true. |                                      |                    |

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

Table 8  Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>item_0_unitPrice</td>
<td>Use this field or the purchaseTotals_grandTotalAmount field to specify the amount for a setup fee or for a manual preauthorization. These features are not available for all payment methods. See &quot;Charging a Setup Fee,&quot; page 22, and &quot;Manually Preauthorizing a Customer Profile,&quot; page 24.</td>
<td>Create (see description) Update (O)</td>
<td>String (15)</td>
</tr>
<tr>
<td>merchantDefinedData_field1</td>
<td>Four fields that you can use to store information. These values are displayed on the Subscription Transaction Details page on the Business Center. To understand the different kinds of data storage fields see &quot;Optional Data Storage,&quot; page 39. <strong>Warning</strong> Merchant-defined data fields are not intended to and MUST NOT be used to capture personally identifying information. Accordingly, merchants are prohibited from capturing, obtaining, and/or transmitting any personally identifying information in or via the merchant-defined data fields. Personally identifying information includes, but is not limited to, card number, bank account number, social security number, driver's license number, state-issued identification number, passport number, and card verification numbers (CVV, CVC2, CVV2, CID, CVN). In the event CyberSource discovers that a merchant is capturing and/or transmitting personally identifying information via the merchant-defined data fields, whether or not intentionally, CyberSource WILL immediately suspend the merchant's account, which will result in a rejection of any and all transaction requests submitted by the merchant after the point of suspension. <strong>Note</strong> If you are creating a customer profile based on an existing transaction, the merchant-defined data fields do not get transferred to the new customer profile.</td>
<td>Create (O) Update (O)</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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Appendix A

#### API Fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>merchantID</td>
<td>Your CyberSource merchant ID.</td>
<td>Required for all services</td>
<td>String (30)</td>
</tr>
<tr>
<td>merchantReferenceCode</td>
<td>Merchant-generated order reference or tracking number.</td>
<td>Required for all services</td>
<td>Asia, Middle East, and Africa Gateway: String (40) Atos: String (32) All other processors: String (50)</td>
</tr>
<tr>
<td>merchantSecureData_field1</td>
<td>Storage fields for any type of data. The only validation performed on these fields is a size check. The data is encrypted before it is stored in the database. To understand the different kinds of data storage fields see &quot;Optional Data Storage,&quot; page 39.</td>
<td>Create (O) Update (O)</td>
<td>String (100)</td>
</tr>
<tr>
<td>merchantSecureData_field2</td>
<td>Storage field for any type of data. The only validation performed on this field is a size check. The data is encrypted before it is stored in the database. To understand the different kinds of data storage fields see &quot;Optional Data Storage,&quot; page 39.</td>
<td>Create (O) Update (O)</td>
<td>String (2K)</td>
</tr>
<tr>
<td>paymentNetworkToken_requestorID</td>
<td>Value that identifies your business and indicates that the cardholder’s account number is tokenized. This value is assigned by the token service provider and is unique within the token service provider’s database. See &quot;Including the Payment Network Token,&quot; page 27.</td>
<td>Create (O)</td>
<td>Integer (11)</td>
</tr>
</tbody>
</table>

**Note** The maximum number of characters allowed is 2071.

---

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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
### Table 8 Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>paymentNetworkToken__transactionType</td>
<td>Type of transaction that provided the token data. This value does not specify the token service provider; it specifies the entity that provided you with information about the token. See &quot;Including the Payment Network Token,&quot; page 27. Value: 1: In-app transaction. An application on the customer’s mobile device provided the token data for an e-commerce transaction.</td>
<td>Create (R-required for payment network token transaction)</td>
<td>String (1)</td>
</tr>
<tr>
<td>paySubscriptionCreateService__disableAutoAuth</td>
<td>Indicates whether to turn off the preauthorization check when creating this customer profile, as described in &quot;Optional Data Storage,&quot; page 39. Use this field if your CyberSource account is configured for automatic preauthorizations but for this specific customer profile you want to override that setting. Possible values: false: No, go ahead and perform the preauthorization for this customer profile. true: Yes, turn off the preauthorization check for this customer profile.</td>
<td>Create (O)</td>
<td>String (5)</td>
</tr>
<tr>
<td>paySubscriptionCreateService__paymentRequestId</td>
<td>The requestID value returned from a previous request for a credit card authorization. This value links the previous request to the current follow-on request. <strong>Important</strong> This field is required when converting an existing authorization to a customer profile.</td>
<td>Create (see description)</td>
<td>String (26)</td>
</tr>
<tr>
<td>purchaseTotals__currency</td>
<td>Currency used by the customer.</td>
<td>Create (R) Update (O)</td>
<td>String (5)</td>
</tr>
<tr>
<td>purchaseTotals__grandTotalAmount</td>
<td>Use this field or item_0_unitPrice to specify the amount for a setup fee or for a manual preauthorization. These features are not available for all payment methods. See &quot;Validating a Customer Profile,&quot; page 22.</td>
<td>Create (see description) Update (O)</td>
<td>String (15)</td>
</tr>
<tr>
<td>recurringSubscriptionInfo__amount</td>
<td>Amount of the customer profile payments. This value can be 0.</td>
<td>Create (O) Update (O)</td>
<td>String (15)</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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| recurringSubscriptionInfo_billPayment | Flag that indicates that this is a payment for a bill or for an existing contractual loan. See "Visa Bill Payment Program," page 40. This value is case sensitive. Possible values:  
  - false (default): Not a bill payment or loan payment.  
  - true: Bill payment or loan payment.                                                                                                                     | Create (O) Update (O)             | String (1)         |
| recurringSubscriptionInfo_frequency | Frequency of payments for the customer profile.  
Value: on-demand.                                                                                                                                             | Create (R)                        | String (20)        |
| recurringSubscriptionInfo_subscriptionID | Value that identifies the customer profile for which the service is being requested. This value was sent to you when the customer profile was created.                                                       | Update (R) Retrieve (R)          | String (26)        |
| shipTo_city                      | City of the shipping address.                                                                                                                                                                                  | Create (O) Update (O)             | String (50)        |
| shipTo_country                   | Country code for the shipping address. Use the two-character ISO country codes.                                                                                                                                | Create (O) Update (O)             | String (2)         |
| shipTo_firstName                 | First name of the person receiving the product.                                                                                                                                                               | Create (O) Update (O)             | String (60)        |
| shipTo_lastName                  | Last name of the person receiving the product.                                                                                                                                                                | Create (O) Update (O)             | String (60)        |
| shipTo_phoneNumber               | Phone number of the person receiving the product. When creating a customer profile, the requirements depend on the payment method:  
  - Credit cards—optional.  
  - Electronic checks—contact your payment processor representative to find out if this field is required or optional.  
  - PINLess debits—optional.                                                                                                                               | Create (see description) Update (see description) | 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 20. Important It is your responsibility to determine whether a field is required for the transaction you are requesting.
Table 8  Request Fields  (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ 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.  
If the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]  
Example: 12345-6789  
If the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space]  
[numeric][alpha][numeric]  
Example: A1B 2C3  
If the postal code for the shipping address is not included in the request message, CyberSource uses the postal code for the billing address. If the postal code for the billing address is not included in the request message, the postal code for the shipping address is required. | Create (O)  
Update (O) | String (10) |
| shipTo_state        | State or province in the shipping address. Use the two-character ISO state and province code. | Create (O)  
Update (O) | String (2) |
| shipTo_street1      | First line of the street address in the shipping address.                    | Create (O)  
Update (O) | String (60) |
| shipTo_street2      | Second line of the street address in the shipping address.                    | Create (O)  
Update (O) | String (60) |
Possible values:  
- card (default when creating a customer profile)  
- check  
- other  
- pinless debit | Create (see description)  
Update (O) | String (20) |
| subscription_title  | Name or title for the customer profile.                                       | Create (O)  
Update (O) | String (60) |

1. This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date.  
See "Relaxed Requirements for Address Data and Expiration Date," page 20. Important It is your responsibility to determine whether a field is required for the transaction you are requesting.
## Appendix A  
### API Fields

### ucaf_authenticationData
- **Description**: Universal cardholder authentication field (UCAF) data.
- **Used By & Required**: Create (required for payment network token transactions with MasterCard)
- **Data Type & Length**: String (32)

### ucaf_collectionIndicator
- **Description**: Required field for payment network tokenization transactions with MasterCard. Set the value for this field to 2.
- **Used By & Required**: Create (required for payment network token transactions with MasterCard)
- **Data Type & Length**: String with numbers only (1)

---

Table 8  
### Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By &amp; Required (R)/ Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ucaf_authenticationData</td>
<td>Universal cardholder authentication field (UCAF) data.</td>
<td>Create (required for payment network token transactions with MasterCard)</td>
<td>String (32)</td>
</tr>
<tr>
<td>ucaf_collectionIndicator</td>
<td>Required field for payment network tokenization transactions with MasterCard. Set the value for this field to 2.</td>
<td>Create (required for payment network token transactions with MasterCard)</td>
<td>String (1)</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 20. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

### Reply Fields

Table 9  
### Reply Fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ccAuthReply_amount</td>
<td>Amount that was authorized.</td>
<td>Create</td>
<td>String (15)</td>
</tr>
<tr>
<td>ccAuthReply_authorizationCode</td>
<td>Authorization code. Returned only when the processor returns this value. For encoded account numbers and zero amount authorizations, see the Credit Card Services Using the Simple Order API (PDF</td>
<td>Create</td>
<td>String (7)</td>
</tr>
<tr>
<td>ccAuthReply_authorizationDateTime</td>
<td>Time of authorization.</td>
<td>Create</td>
<td>String (20)</td>
</tr>
<tr>
<td>ccAuthReply_avsCode</td>
<td>AVS results. See &quot;AVS and CVN Codes,&quot; page 74.</td>
<td>Create</td>
<td>String (1)</td>
</tr>
<tr>
<td>ccAuthReply_avsCodeRaw</td>
<td>AVS result code sent directly from the processor. See &quot;AVS and CVN Codes,&quot; page 74.</td>
<td>Create</td>
<td>String (1)</td>
</tr>
</tbody>
</table>
Table 9  Reply Fields  (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ccAuthReply_processorResponse</td>
<td>For most processors, this is the error message sent directly from the bank. Returned only when the processor returns this value.</td>
<td>Create</td>
<td>String (10)</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong>  Do not use this value to evaluate the result of the transaction.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ccAuthReply_reasonCode</td>
<td>Numeric value corresponding to the result of the authorization request. See &quot;Reason Codes,&quot; page 71.</td>
<td>Create</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>ccAuthReply_reconciliationID</td>
<td>Reference number for the transaction. This value is not returned for all processors. See Getting Started with CyberSource Advanced for the Simple Order API (PDF</td>
<td>Create</td>
<td>String (60)</td>
</tr>
<tr>
<td></td>
<td>HTML) for information about order tracking and reconciliation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ccCaptureReply_amount</td>
<td>Amount that was captured.</td>
<td>Create</td>
<td>String (15)</td>
</tr>
<tr>
<td>ccCaptureReply_reasonCode</td>
<td>Numeric value corresponding to the result of the capture request. See &quot;Reason Codes,&quot; page 71.</td>
<td>Create</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>ccCaptureReply_reconciliationID</td>
<td>Reference number for the transaction. This value is not returned for all processors. See Getting Started with CyberSource Advanced for the Simple Order API (PDF</td>
<td>Create</td>
<td>String (60)</td>
</tr>
<tr>
<td></td>
<td>HTML) for information about order tracking and reconciliation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ccCaptureReply_requestDateTime</td>
<td>Time of capture.</td>
<td>Create</td>
<td>String (20)</td>
</tr>
<tr>
<td>decision</td>
<td>Summarizes the overall results for the request. Possible values:</td>
<td>All services</td>
<td>String (6)</td>
</tr>
<tr>
<td></td>
<td>■ ACCEPT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ ERROR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ REJECT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>invalidField_0...N</td>
<td>Fields in the request that contained invalid values. These reply fields are included as an aid to software developers only. Do not use these fields to communicate with customers.</td>
<td>All services</td>
<td>String (100)</td>
</tr>
<tr>
<td>merchantReference Code</td>
<td>Order reference or tracking number that you provided in the request.</td>
<td>All services</td>
<td>String (50)</td>
</tr>
</tbody>
</table>
### Table 9 Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>missingField_0...N</td>
<td>Required fields that were missing from the request. These reply fields are included as an aid to software developers only. Do not use these fields to communicate with customers.</td>
<td>All services</td>
<td>String (100)</td>
</tr>
<tr>
<td>paySubscriptionCreateReply_reasonCode</td>
<td>Numeric value corresponding to the result of the service request. See &quot;Reason Codes,&quot; page 71.</td>
<td>Create</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>paySubscriptionCreateReply_subscriptionID</td>
<td>Identifier for the customer profile.</td>
<td>Create</td>
<td>String (26)</td>
</tr>
<tr>
<td>paySubscriptionDeleteReply_reasonCode</td>
<td>Numeric value corresponding to the result of the service request. See &quot;Reason Codes,&quot; page 71.</td>
<td>Delete</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>paySubscriptionDeleteReply_subscriptionID</td>
<td>Identifier for the customer profile.</td>
<td>Delete</td>
<td>String (26)</td>
</tr>
<tr>
<td>paySubscriptionRetrieveReply_merchantDefinedData Field1</td>
<td>Four fields for storing information. To understand the kinds of data storage fields see &quot;Optional Data Storage,&quot; page 39.</td>
<td>Retrieve</td>
<td>String (64)</td>
</tr>
<tr>
<td>paySubscriptionRetrieveReply_merchantDefinedData Field2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscriptionRetrieveReply_merchantDefinedData Field3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscriptionRetrieveReply_merchantDefinedData Field4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscriptionRetrieveReply_merchantSecureData Field1</td>
<td>Data that was encrypted. CyberSource decrypts the data before returning it. To understand the different kinds of data storage fields see &quot;Optional Data Storage,&quot; page 39.</td>
<td>Retrieve</td>
<td>String (100)</td>
</tr>
<tr>
<td>paySubscriptionRetrieveReply_merchantSecureData Field2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscriptionRetrieveReply_merchantSecureData Field3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 9  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>paySubscription RetrieveReply_postalCode</td>
<td>Postal code of the billing address.</td>
<td>Retrieve</td>
<td>String (10)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_approvalRequired</td>
<td>This field is not meaningful for customer profiles.</td>
<td>Retrieve</td>
<td>String (5)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_automaticRenew</td>
<td>This field is not meaningful for customer profiles.</td>
<td>Retrieve</td>
<td>String (5)</td>
</tr>
</tbody>
</table>
| paySubscription RetrieveReply_billPayment | Indicates whether the payments for this customer profile are for the Visa Bill Payment program. Possible values:  
- N (default): Not a Visa Bill Payment.  
- Y: Visa Bill Payment.  
See "Visa Bill Payment Program," page 40. | Retrieve    | String (1)          |
| paySubscription RetrieveReply_cardAccountNumber | Card account number.                                                        | Retrieve    | String (20)         |
| paySubscription RetrieveReply_cardExpirationMonth | Expiration month for the card.                                              | Retrieve    | Integer (2)         |
|                         | Format: MM                                                                 |             |                     |
| paySubscription RetrieveReply_cardExpirationYear | Expiration year for the card.                                               | Retrieve    | Integer (4)         |
|                         | Format: YYYY                                                               |             |                     |
| paySubscription RetrieveReply_cardIssueNumber | Issue number for the Maestro (UK Domestic) card.                            | Retrieve    | String (5)          |
| paySubscription RetrieveReply_cardStartMonth | Start month for the Maestro (UK Domestic) card.                            | Retrieve    | Integer (2)         |
|                         | Format: MM                                                                 |             |                     |
| paySubscription RetrieveReply_cardStartYear | Start year for the Maestro (UK Domestic) card.                             | Retrieve    | Integer (4)         |
|                         | Format: YYYY                                                               |             |                     |
| paySubscription RetrieveReply_cardType | Card type.                                                                 | Retrieve    | String (3)          |
| paySubscription RetrieveReply_checkAccountNumber | Bank account number.                                                       | Retrieve    | Numeric (17)        |
Table 9  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| paySubscription RetrieveReply_check AccountType | Account type. Possible values:  
  - C: checking  
  - S: savings (USD only)  
  - X: corporate checking (USD only) | Retrieve     | String (1)         |
<p>| paySubscription RetrieveReply_check AuthenticateID | Identification number returned when an Authenticate request is processed and returned in subsequent monetary transactions. | Retrieve     | Numeric (32)       |
| paySubscription RetrieveReply_check BankTransitNumber | Bank routing number.                                                        | Retrieve     | Numeric (9)        |</p>
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>paySubscription</td>
<td>Code that specifies the authorization method for the transaction. Possible values:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RetrieveReply_checkSecCode</td>
<td></td>
<td>Retrieve</td>
<td>String (3)</td>
</tr>
<tr>
<td>CCD: Corporate cash disbursement—A charge or credit against a business checking account. You can use one-time or recurring CCD transactions to transfer funds to or from a corporate entity. A standing authorization is required for recurring transactions.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPD: Prearranged payment and deposit entry—A charge or credit against a personal checking or savings account. You can originate a PPD entry only when the payment and deposit terms between you and the customer are prearranged. A written authorization from the customer is required for one-time transactions and a written standing authorization is required for recurring transactions.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEL: Telephone-initiated entry—A one-time charge against a personal checking or savings account. You can originate a TEL entry only when there is a business relationship between you and the customer or when the customer initiates a telephone call to you. For a TEL entry, you must obtain a payment authorization from the customer over the telephone. There is no recurring billing option for TEL.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEB: Internet-initiated entry—A charge against a personal checking or savings account. You can originate a one-time or recurring WEB entry when the customer initiates the transaction over the Internet. For a WEB entry, you must obtain payment authorization from the customer over the Internet.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscription</td>
<td>City of the customer’s address.</td>
<td>Retrieve</td>
<td>String (50)</td>
</tr>
<tr>
<td>RetrieveReply_city</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscription</td>
<td>Comments that you included for the customer profile.</td>
<td>Retrieve</td>
<td>String (255)</td>
</tr>
<tr>
<td>Retrieve_reply_comments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscription</td>
<td>Name of the customer’s company.</td>
<td>Retrieve</td>
<td>String (40)</td>
</tr>
<tr>
<td>Retrieve_reply_companyName</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 9  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>paySubscription RetrieveReply_companyTaxID</td>
<td>Company tax identifier.</td>
<td>Retrieve</td>
<td>Numeric (9)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_country</td>
<td>Country code for the billing address. Use the two-character ISO codes.</td>
<td>Retrieve</td>
<td>String (2)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_currency</td>
<td>Currency used by the customer.</td>
<td>Retrieve</td>
<td>String (5)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_customerAccountID</td>
<td>Your identifier for the customer.</td>
<td>Retrieve</td>
<td>String (50)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_dateOfBirth</td>
<td>Date of birth of the customer.</td>
<td>Retrieve</td>
<td>String (10)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_driversLicenseNumber</td>
<td>Driver’s license number of the customer.</td>
<td>Retrieve</td>
<td>String (30)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_driversLicenseState</td>
<td>State or province in which the customer’s driver’s license was issued.</td>
<td>Retrieve</td>
<td>String (2)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_email</td>
<td>Customer’s email address.</td>
<td>Retrieve</td>
<td>String (255)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_endDate</td>
<td>This field is not meaningful for customer profiles.</td>
<td>Retrieve</td>
<td>String (8)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_firstName</td>
<td>Customer first name.</td>
<td>Retrieve</td>
<td>String (60)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply_frequency</td>
<td>Frequency of payments for the customer profile. Possible value:</td>
<td>Retrieve</td>
<td>String (20)</td>
</tr>
<tr>
<td></td>
<td>▪ on-demand: No payment schedule</td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscription RetrieveReply_lastName</td>
<td>Customer last name.</td>
<td>Retrieve</td>
<td>String (60)</td>
</tr>
<tr>
<td>paySubscription RetrieveReplyMerchantReferenceCode</td>
<td>Merchant-generated order reference or tracking number.</td>
<td>Retrieve</td>
<td>String (50)</td>
</tr>
<tr>
<td>paySubscription RetrieveReplyMerchantSecureDataField4</td>
<td>Data that was encrypted. CyberSource decrypts the data before returning it. To understand the different kinds of data storage fields see &quot;Optional Data Storage,&quot; page 39.</td>
<td>Retrieve</td>
<td>String (2048)</td>
</tr>
</tbody>
</table>
### Table 9  Reply Fields  (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>paySubscription RetrieveReply__merchantSecureData Field4</td>
<td>Data that was encrypted. CyberSource decrypts the data before returning it. See &quot;Optional Data Storage,&quot; page 39.</td>
<td>Retrieve</td>
<td>String (2k)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__owner MerchantID</td>
<td>CyberSource merchant ID that was used to create the customer profile for which the service was requested. This field is returned only if you are using profile sharing and only if you requested this service for a customer profile that was created with a CyberSource merchant ID for which sharing is enabled. See &quot;Customer Profile Sharing,&quot; page 40.</td>
<td>Retrieve</td>
<td>String (30)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__phoneNumber</td>
<td>Customer’s phone number.</td>
<td>Retrieve</td>
<td>String (20)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__reason Code</td>
<td>Numeric value corresponding to the result of the service request. See &quot;Reason Codes,&quot; page 71.</td>
<td>Retrieve</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__recurringAmount</td>
<td>Payment amount for the customer profile.</td>
<td>Retrieve</td>
<td>String (15)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__setup Amount</td>
<td>Amount of the setup fee.</td>
<td>Retrieve</td>
<td>String (15)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__shipTo City</td>
<td>City of the shipping address.</td>
<td>Retrieve</td>
<td>String (50)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__shipTo Company</td>
<td>Name of the company that is receiving the product.</td>
<td>Retrieve</td>
<td>String (60)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__shipTo Country</td>
<td>Country code for the shipping address. Use the two-character ISO codes.</td>
<td>Retrieve</td>
<td>String (2)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__shipTo FirstName</td>
<td>First name of the person receiving the product.</td>
<td>Retrieve</td>
<td>String (60)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__shipTo LastName</td>
<td>Last name of the person receiving the product.</td>
<td>Retrieve</td>
<td>String (60)</td>
</tr>
<tr>
<td>paySubscription RetrieveReply__shipTo PostalCode</td>
<td>Postal code in the shipping address.</td>
<td>Retrieve</td>
<td>String (10)</td>
</tr>
</tbody>
</table>
### Table 9  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>paySubscription RetrieveReply_shipTo State</code></td>
<td>State or province of shipping address. Use the two-character ISO state and province codes.</td>
<td>Retrieve</td>
<td>String (2)</td>
</tr>
<tr>
<td><code>paySubscription RetrieveReply_shipTo Street1</code></td>
<td>First line of the shipping address.</td>
<td>Retrieve</td>
<td>String (60)</td>
</tr>
<tr>
<td><code>paySubscription RetrieveReply_shipTo Street2</code></td>
<td>Second line of the shipping address.</td>
<td>Retrieve</td>
<td>String (60)</td>
</tr>
<tr>
<td><code>paySubscription RetrieveReply_start Date</code></td>
<td>This field is not meaningful for customer profiles.</td>
<td>Retrieve</td>
<td>String (8)</td>
</tr>
<tr>
<td><code>paySubscription RetrieveReply_state</code></td>
<td>State or province of billing address. Use the two-character ISO state and province codes.</td>
<td>Retrieve</td>
<td>String (2)</td>
</tr>
</tbody>
</table>
| `paySubscription RetrieveReply_status` | Status of the customer profile. Possible values:  
  - Cancelled: The customer profile has been cancelled.  
  - Current: The customer profile is active.  
  - Superseded: The profile ID for the customer profile has been superseded with a new profile ID. | Retrieve | String (9) |
| `paySubscription RetrieveReply_subscriptionID` | Identifier for the customer profile. | Retrieve | String (16 or 22) |
| `paySubscription RetrieveReply_subscriptionIDNew` | Identifier for the customer profile.  
  **Note** This 16-digit profile ID supersedes the previous profile ID for the same customer profile. | Retrieve | String (16) |
| `paySubscription RetrieveReply_title` | Name or title for the customer profile. | Retrieve | String (60) |
| `paySubscription UpdateReply_owner MerchantID` | CyberSource merchant ID that was used to create the customer profile for which the service was requested. This field is returned only if you are using profile sharing and only if you requested this service for a customer profile that was created with a CyberSource merchant ID for which sharing is enabled. See "Customer Profile Sharing," page 40. | Update | String (30) |
| `paySubscriptionUpdate Reply_reasonCode` | Numeric value corresponding to the result of the service request. See "Reason Codes," page 71. | Update | Integer (5) |
Table 9  Reply Fields  (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned by</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>paySubscriptionUpdate</td>
<td>Identifier for the customer profile.</td>
<td>Update</td>
<td>String (16 or 22)</td>
</tr>
<tr>
<td>Reply_subscriptionID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>paySubscriptionUpdateReplySubscriptionIDNew</td>
<td>Identifier for the customer profile.</td>
<td>Update</td>
<td>String (16)</td>
</tr>
<tr>
<td>Note</td>
<td>This 16-digit profile ID supersedes the previous profile ID for the same customer profile.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>reasonCode</td>
<td>Numeric value corresponding to the result of the entire request. See &quot;Reason Codes,&quot; page 71.</td>
<td>All services</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>requestID</td>
<td>Identifier for the request.</td>
<td>All services</td>
<td>String (26)</td>
</tr>
<tr>
<td>requestToken</td>
<td>Request token data created by CyberSource for each reply. The field is an encoded string that contains no confidential information, such as an account or card verification number.</td>
<td>All Services</td>
<td>String (256)</td>
</tr>
</tbody>
</table>

**Reason Codes**

The following table describes the reason codes returned by the Simple Order API for customer profiles. For a discussion of replies, decisions, and reason codes, see the information about handling replies in *Getting Started with CyberSource Advanced for the Simple Order API* (PDF | HTML).

**Important**

Because CyberSource can add reply fields and reason codes at any time, you must:

- Parse the reply data according to the names of the fields instead of their order in the reply. For more information on parsing reply fields, see the documentation for your client.

- Program your error handler to use the **decision** field to determine the result if it receives a reason code that it does not recognize.

**Note**

If your request includes other CyberSource services such as authorization or capture, the reply will include reason codes that pertain to those services. For more information, see the documentation for those services.
### Table 10  Reason Codes for the Simple Order API

<table>
<thead>
<tr>
<th>Reason Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Successful transaction.</td>
</tr>
<tr>
<td>101</td>
<td>Missing required fields. Possible action: See the reply fields <code>missingField_0...N</code> for which fields are missing. Resend the request with the complete information.</td>
</tr>
<tr>
<td>102</td>
<td>Invalid data. Possible action: See the reply fields <code>invalidField_0...N</code> for which fields are invalid. Resend the request with the correct information.</td>
</tr>
<tr>
<td>150</td>
<td>General system failure. See the documentation for your CyberSource client for information about how to handle retries in the case of system errors.</td>
</tr>
<tr>
<td>151</td>
<td>The request was received but there was a server timeout. This error does not include timeouts between the client and the server. To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status at the Business Center. See the documentation for your CyberSource client for information about how to handle retries in the case of system errors.</td>
</tr>
<tr>
<td>152</td>
<td>The request was received, but a service did not finish running in time. To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status at the Business Center. See the documentation for your CyberSource client for information about how to handle retries in the case of system errors.</td>
</tr>
<tr>
<td>200</td>
<td>The authorization request was approved by the issuing bank but declined by CyberSource because it did not pass the AVS check. Possible action: You can capture the authorization, but consider reviewing the order for the possibility of fraud.</td>
</tr>
<tr>
<td>201</td>
<td>The issuing bank has questions about the request. You will not receive an authorization code programmatically, but you can obtain one verbally by calling the processor. Call your processor to possibly receive a verbal authorization. For contact phone numbers, refer to your merchant bank information.</td>
</tr>
<tr>
<td>202</td>
<td>Expired card. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>203</td>
<td>General decline of the card. No other information provided by the issuing bank. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>204</td>
<td>Insufficient funds in the account. Request a different card or other form of payment.</td>
</tr>
</tbody>
</table>
### Table 10  Reason Codes for the Simple Order API (Continued)

<table>
<thead>
<tr>
<th>Reason Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>205</td>
<td>Stolen or lost card. Refer the transaction to your customer support center for manual review.</td>
</tr>
<tr>
<td>207</td>
<td>Issuing bank unavailable. Wait a few minutes and resend the request.</td>
</tr>
<tr>
<td>208</td>
<td>Inactive card or card not authorized for card-not-present transactions. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>209</td>
<td>American Express Card Identification Digits (CIDs) did not match. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>210</td>
<td>The card has reached the credit limit. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>211</td>
<td>Invalid card verification number. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>220</td>
<td>The processor declined the request based on a general issue with the customer’s account. Request a different form of payment.</td>
</tr>
<tr>
<td>221</td>
<td>The customer matched an entry on the processor’s negative file. Review the order and contact the payment processor.</td>
</tr>
<tr>
<td>222</td>
<td>The customer’s bank account is frozen. Review the order or request a different form of payment.</td>
</tr>
<tr>
<td>230</td>
<td>The authorization request was approved by the issuing bank but declined by CyberSource because it did not pass the CVN check. You can capture the authorization, but consider reviewing the order for the possibility of fraud.</td>
</tr>
<tr>
<td>231</td>
<td>Invalid account number. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>232</td>
<td>The card type is not accepted by the payment processor. Contact your merchant bank to confirm that your account is set up to receive the card in question.</td>
</tr>
<tr>
<td>233</td>
<td>General decline by the processor. Request a different card or other form of payment.</td>
</tr>
<tr>
<td>234</td>
<td>There is a problem with your CyberSource merchant configuration. Do not resend the request. Contact Customer Support to correct the configuration problem.</td>
</tr>
<tr>
<td>236</td>
<td>Processor failure. Wait a few minutes and resend the request.</td>
</tr>
</tbody>
</table>
Table 10  Reason Codes for the Simple Order API (Continued)

<table>
<thead>
<tr>
<th>Reason Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>240</td>
<td>The card type sent is invalid or does not correlate with the card number. Confirm that the card type correlates with the card number specified in the request, then resend the request.</td>
</tr>
<tr>
<td>250</td>
<td>The request was received, but there was a timeout at the payment processor. To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status at the Business Center.</td>
</tr>
</tbody>
</table>

**AVS and CVN Codes**

An issuing bank uses the AVS code to confirm that your customer is providing the correct billing address. If the customer provides incorrect data, the transaction might be fraudulent. The international and U.S. domestic Address Verification Service (AVS) codes are the Visa standard AVS codes, except for codes 1 and 2, which are CyberSource AVS codes. The standard AVS return codes for other types of credit cards (including American Express cards) are mapped to the Visa standard codes.

When you populate billing street address 1 and billing street address 2, CyberSource through VisaNet concatenates the two values. If the concatenated value exceeds 40 characters, CyberSource through VisaNet truncates the value at 40 characters before sending it to Visa and the issuing bank. Truncating this value affects AVS results and therefore might impact risk decisions and chargebacks.

**International AVS Codes**

These codes are returned only for Visa cards issued outside the U.S.

Table 11  International AVS Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Response</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Partial match</td>
<td>Street address matches, but postal code is not verified.</td>
</tr>
<tr>
<td>C</td>
<td>No match</td>
<td>Street address and postal code do not match.</td>
</tr>
<tr>
<td>D &amp; M</td>
<td>Match</td>
<td>Street address and postal code match.</td>
</tr>
<tr>
<td>I</td>
<td>No match</td>
<td>Address is not verified.</td>
</tr>
<tr>
<td>P</td>
<td>Partial match</td>
<td>Postal code matches, but street address is not verified.</td>
</tr>
</tbody>
</table>
### U.S. Domestic AVS Codes

#### Table 12  Domestic AVS Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Response</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Partial match</td>
<td>Street address matches, but 5-digit and 9-digit postal codes do not match.</td>
</tr>
<tr>
<td>B</td>
<td>Partial match</td>
<td>Street address matches, but postal code is not verified.</td>
</tr>
<tr>
<td>C</td>
<td>No match</td>
<td>Street address and postal code do not match.</td>
</tr>
<tr>
<td>D &amp; M</td>
<td>Match</td>
<td>Street address and postal code match.</td>
</tr>
<tr>
<td>E</td>
<td>Invalid</td>
<td>AVS data is invalid, or AVS is not allowed for this card type.</td>
</tr>
<tr>
<td>F</td>
<td>Partial match</td>
<td>Card member’s name does not match, but billing postal code matches. Returned only for the American Express card type.</td>
</tr>
<tr>
<td>G</td>
<td>Not supported.</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Partial match</td>
<td>Card member’s name does not match, but street address and postal code match. Returned only for the American Express card type.</td>
</tr>
<tr>
<td>I</td>
<td>No match</td>
<td>Address not verified.</td>
</tr>
<tr>
<td>J</td>
<td>Match</td>
<td>Card member’s name, billing address, and postal code match. Shipping information verified and chargeback protection guaranteed through the Fraud Protection Program. Returned only if you are registered to use AAV+ with the American Express Phoenix processor.</td>
</tr>
<tr>
<td>K</td>
<td>Partial match</td>
<td>Card member’s name matches, but billing address and billing postal code do not match. Returned only for the American Express card type.</td>
</tr>
<tr>
<td>L</td>
<td>Partial match</td>
<td>Card member’s name and billing postal code match, but billing address does not match. Returned only for the American Express card type.</td>
</tr>
<tr>
<td>M</td>
<td>Match</td>
<td>Street address and postal code match.</td>
</tr>
<tr>
<td>N</td>
<td>No match</td>
<td>One of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ Street address and postal code do not match.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ Card member’s name, street address, and postal code do not match. Returned only for the American Express card type.</td>
</tr>
<tr>
<td>O</td>
<td>Partial match</td>
<td>Card member’s name and billing address match, but billing postal code does not match. Returned only for the American Express card type.</td>
</tr>
<tr>
<td>P</td>
<td>Partial match</td>
<td>Postal code matches, but street address not verified.</td>
</tr>
<tr>
<td>Q</td>
<td>Match</td>
<td>Card member’s name, billing address, and postal code match. Shipping information verified but chargeback protection not guaranteed (Standard program). Returned only if you are registered to use AAV+ with the American Express Phoenix processor.</td>
</tr>
<tr>
<td>R</td>
<td>System unavailable</td>
<td>System unavailable.</td>
</tr>
</tbody>
</table>
Table 12  Domestic AVS Codes  (Continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Response</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Not supported</td>
<td>U.S.-issuing bank does not support AVS.</td>
</tr>
<tr>
<td>T</td>
<td>Partial match</td>
<td>Card member’s name does not match, but street address matches. Returned only for the American Express card type.</td>
</tr>
</tbody>
</table>
| U    | System unavailable| Address information unavailable for one of these reasons:  
  - The U.S. bank does not support non-U.S. AVS.  
  - The AVS in a U.S. bank is not functioning properly. |
| V    | Match        | Card member’s name, billing address, and billing postal code match. Returned only for the American Express card type. |
| W    | Partial match| Street address does not match, but 9-digit postal code matches.             |
| X    | Match        | Street address and 9-digit postal code match.                                |
| Y    | Match        | Street address and 5-digit postal code match.                                |
| Z    | Partial match| Street address does not match, but 5-digit postal code matches.             |
| 1    | Not supported| AVS is not supported for this processor or card type.                       |
| 2    | Unrecognized | The processor returned an unrecognized value for the AVS response.          |
| 3    | Match        | Address is confirmed. Returned only for PayPal Express Checkout.            |
| 4    | No match     | Address is not confirmed. Returned only for PayPal Express Checkout.        |

CVN Codes

Table 13  CVN Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>The transaction was considered suspicious by the issuing bank.</td>
</tr>
<tr>
<td>I</td>
<td>The CVN failed the processor's data validation.</td>
</tr>
<tr>
<td>M</td>
<td>The CVN matched.</td>
</tr>
<tr>
<td>N</td>
<td>The CVN did not match.</td>
</tr>
<tr>
<td>P</td>
<td>The CVN was not processed by the processor for an unspecified reason.</td>
</tr>
<tr>
<td>S</td>
<td>The CVN is on the card but was not included in the request.</td>
</tr>
<tr>
<td>U</td>
<td>Card verification is not supported by the issuing bank.</td>
</tr>
<tr>
<td>X</td>
<td>Card verification is not supported by the card association.</td>
</tr>
<tr>
<td>1</td>
<td>Card verification is not supported for this processor or card type.</td>
</tr>
<tr>
<td>2</td>
<td>An unrecognized result code was returned by the processor for the card verification response.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>3</td>
<td>No result code was returned by the processor.</td>
</tr>
</tbody>
</table>
Examples

Name-Value Pair Examples

Creating a Customer Profile without a Setup Fee

Example      Request: Creating a Customer Profile without a Setup Fee

billTo_firstName=John
billTo_lastName=Doe
billTo_street1=1295 Charleston Road
billTo_city=Mountain View
billTo_state=CA
billTo_postalCode=94043
billTo_country=US
billTo_email=null@cybersource.com
purchaseTotals_currency=USD
card_accountNumber=4111111111111111
card_expirationMonth=12
card_expirationYear=2018
card_cardType=001
merchantID=demoID
merchantReferenceCode=1111
recurringSubscriptionInfo_frequency=on-demand
paySubscriptionCreateService_run=true

decision=ACCEPT
merchantReferenceCode=1111
paySubscriptionCreateReply_reasonCode=100
paySubscriptionCreateReply_subscriptionID=0000562489861111
purchaseTotals_currency=USD
reasonCode=100
requestID=3790672461500176056470
Creating a Customer Profile with a 5.00 Setup Fee

Example  Request: Creating a Customer Profile with a 5.00 Setup Fee

```
billTo_firstName=John
billTo_lastName=Doe
billTo_street1=1295 Charleston Road
billTo_city=Mountain View
billTo_state=CA
billTo_postalCode=94043
billTo_country=US
billTo_email=null@cybersource.com
card_accountNumber=4111111111111111
card_expirationMonth=12
card_expirationYear=2018
card_cardType=001
merchantID=demoID
merchantReferenceCode=111
purchaseTotals_grandTotalAmount=5.00
purchaseTotals_currency=USD
recurringSubscriptionInfo_frequency=on-demand
ccAuthService_run=true
ccCaptureService_run=true
paySubscriptionCreateService_run=true
```

Example  Reply: Creating a Customer Profile with a 5.00 Setup Fee

```
ccAuthReply_amount=5.00
ccAuthReply_authorizationCode=888888
ccAuthReply_authorizedDateTime=2013-09-13T12:35:21Z
ccAuthReply_avsCode=X
ccAuthReply_reasonCode=100
ccAuthReply_reconciliationID=40372550MLIKQ25D
ccCaptureReply_amount=5.00
ccCaptureReply_reasonCode=100
ccCaptureReply_reconciliationID=40372550MLIKQ25D
ccCaptureReply_requestDateTime=2013-09-13T12:35:21Z
decision=ACCEPT
merchantReferenceCode=111
paySubscriptionCreateReply_reasonCode=100
paySubscriptionCreateReply_subscriptionID=0000562549841111
purchaseTotals_currency=USD
reasonCode=100
requestID=3790757213580176056470
```
Updating a Customer Profile

Example      Request: Updating a Customer Profile (Card Details)

merchantID=demoID
merchantReferenceCode=0001
card_accountNumber=4111111111111112
card_expirationMonth=12
card_expirationYear=2018
card_cardType=001
recurringSubscriptionInfo_subscriptionID=0000562489861111
paySubscriptionUpdateService_run=true

Example      Reply: Updating a Customer Profile (Card Details)

merchantReferenceCode=0001
requestID=3790686238410176056470
decision=ACCEPT
reasonCode=100
paySubscriptionUpdateReply_ownerMerchantID=demoID
paySubscriptionUpdateReply_reasonCode=100
paySubscriptionUpdateReply_subscriptionIDNew=0000458489191112

Retrieving a Customer Profile

Example      Request: Retrieving a Customer Profile

merchantID=demoID
merchantReferenceCode=1111
recurringSubscriptionInfo_subscriptionID=0000562489861111
paySubscriptionRetrieveService_run=true
**Example   Reply: Retrieving a Customer Profile**

merchantReferenceCode=1111  
requestID=3790689247280176056442  
decision=ACCEPT  
reasonCode=100  
paySubscriptionRetrieveReply_reasonCode=100  
paySubscriptionRetrieveReply_approvalRequired=false  
paySubscriptionRetrieveReply_automaticRenew=false  
paySubscriptionRetrieveReply_cardAccountNumber=411111XXXXXX1111  
paySubscriptionRetrieveReply_cardExpirationMonth=12  
paySubscriptionRetrieveReply_cardExpirationYear=2018  
paySubscriptionRetrieveReply_cardType=001  
paySubscriptionRetrieveReply_city=The City  
paySubscriptionRetrieveReply_country=US  
paySubscriptionRetrieveReply_currency=USD  
paySubscriptionRetrieveReply_email=null@cybersource.com  
paySubscriptionRetrieveReply_firstName=JOHN  
paySubscriptionRetrieveReply_frequency=on-demand  
paySubscriptionRetrieveReply_lastName=DOE  
paySubscriptionRetrieveReply_paymentMethod=credit card  
paySubscriptionRetrieveReply_paymentsRemaining=0  
paySubscriptionRetrieveReply_postalCode=94045  
paySubscriptionRetrieveReply_state=CA  
paySubscriptionRetrieveReply_status=CURRENT  
paySubscriptionRetrieveReply_street1=123 The Street  
paySubscriptionRetrieveReply_subscriptionID=0000562489861111  
paySubscriptionRetrieveReply_ownerMerchantID=infodev1

**Deleting a Customer Profile**

Example   Request: Deleting a Customer Profile

merchantID=demoID  
merchantReferenceCode=1111  
recurringSubscriptionInfo.subscriptionID=0000562489861111  
paySubscriptionDeleteService_run=true

Example   Reply: Deleting a Customer Profile

decision=ACCEPT  
merchantReferenceCode=1111  
paySubscriptionDeleteReply_reasonCode=100  
paySubscriptionDeleteReply_subscriptionID=0000562489861111  
reasonCode=100  
requestID=3790698033130176056442
XML Examples

The XML schema for the Simple Order API is at:

https://ics2wsa.ic3.com/commerce/1.x/transactionProcessor

Creating a Customer Profile without a Setup Fee

Example      Request: Creating a Customer Profile without a Setup Fee

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data:1.92">  
  <billTo>  
    <firstName>John</firstName>  
    <lastName>Doe</lastName>  
    <street1>1295 Charleston Road</street1>  
    <city>Mountain View</city>  
    <state>CA</state>  
    <postalCode>94043</postalCode>  
    <country>US</country>  
    <email>john.doe@example.com</email>  
  </billTo>  
  <purchaseTotals>  
    <currency>USD</currency>  
  </purchaseTotals>  
  <card>  
    <accountNumber>4111111111111111</accountNumber>  
    <expirationMonth>12</expirationMonth>  
    <expirationYear>2015</expirationYear>  
    <cardType>001</cardType>  
  </card>  
  <merchantID>infodev</merchantID>  
  <merchantReferenceCode>14344</merchantReferenceCode>  
  <recurringSubscriptionInfo>  
    <frequency>on-demand</frequency>  
  </recurringSubscriptionInfo>  
  <paySubscriptionCreateService run="true"/>  
</requestMessage>
```
Example      Reply: Creating a Customer Profile without a Setup Fee

```xml
<replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.92">
  <ccAuthReply>
    <amount>0.00</amount>
    <authorizationCode>888888</authorizationCode>
    <authorizationDateTime>2013-09-13T10:14:06Z</authorizationDateTime>
    <avsCode>X</avsCode>
    <reasonCode>100</reasonCode>
    <reconciliationID>40368790XLILGOLX</reconciliationID>
  </ccAuthReply>
  <merchantReferenceCode>1111</merchantReferenceCode>
  <requestID>3790672461500176056470</requestID>
  <decision>ACCEPT</decision>
  <reasonCode>100</reasonCode>
  <paySubscriptionCreateReply>
    <subscriptionID>0000562489861111</subscriptionID>
  </paySubscriptionCreateReply>
  <purchaseTotals>
    <currency>USD</currency>
  </purchaseTotals>
</replyMessage>
```

Example      Request: Creating a Customer Profile with a 5.00 Setup Fee

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.92">
  <billTo>
    <firstName>John</firstName>
    <lastName>Doe</lastName>
    <street1>1295 Charleston Road</street1>
    <city>Mountain View</city>
    <state>CA</state>
    <postalCode>94043</postalCode>
    <country>US</country>
    <email>john.doe@example.com</email>
    <phoneNumber>650-965-6000</phoneNumber>
  </billTo>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>5.00</grandTotalAmount>
  </purchaseTotals>
</requestMessage>
```
Example  Reply: Creating a Customer Profile with a 5.00 Setup Fee

```xml
<card>
  <accountNumber>4111111111111111</accountNumber>
  <expirationMonth>12</expirationMonth>
  <expirationYear>2015</expirationYear>
  <cardType>001</cardType>
</card>

<recurringSubscriptionInfo>
  <frequency>on-demand</frequency>
</recurringSubscriptionInfo>

<paySubscriptionCreateService run="true"/>
<ccAuthService run="true"/>
<ccCaptureService run="true"/>

</requestMessage>

<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.92">
  <c:ccAuthReply>
    <c:amount>5.00</c:amount>
    <c:authorizationCode>888888</c:authorizationCode>
    <c:authorizationDateTime>2013-09-13T10:14:06Z</c:authorizationDateTime>
    <c:avsCode>X</c:avsCode>
    <c:reasonCode>100</c:reasonCode>
    <c:reconciliationID>40368790XLILGOLX</c:reconciliationID>
  </c:ccAuthReply>

  <c:ccCaptureReply>
    <c:amount>5.00</c:amount>
    <c:requestDateTime>2013-09-13T10:14:06Z</c:requestDateTime>
    <c:reasonCode>100</c:reasonCode>
    <c:reconciliationID>40368790XLILGOLX</c:reconciliationID>
  </c:ccCaptureReply>

  <c:requestID>3790672461500176056470</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:paySubscriptionCreateReply>
    <c:reasonCode>100</c:reasonCode>
    <c:subscriptionID>0000562489861111</c:subscriptionID>
  </c:paySubscriptionCreateReply>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
</c:replyMessage>
```
### Updating a Customer Profile

**Example**  Request: Updating a Customer Profile (Card Details)

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.92">
  <merchantID>infodev</merchantID>
  <merchantReferenceCode>14344</merchantReferenceCode>
  <card>
    <accountNumber>4111111111111234</accountNumber>
    <expirationMonth>12</expirationMonth>
    <expirationYear>2015</expirationYear>
    <cardType>001</cardType>
  </card>
  <recurringSubscriptionInfo>
    <subscriptionID>0000562489861111</subscriptionID>
  </recurringSubscriptionInfo>
</requestMessage>
```

**Example**  Reply: Updating a Customer Profile (Card Details)

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.92">
  <c:paySubscriptionUpdateReply>
    <c:ownerMerchantID>infodev1</c:ownerMerchantID>
    <c:reasonCode>100</c:reasonCode>
    <c:subscriptionID>0000562489861111</c:subscriptionID>
  </c:paySubscriptionUpdateReply>
  <c:requestID>3790672461500176056470</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
</c:replyMessage>
```

### Retrieving a Customer Profile

**Example**  Request: Retrieving a Customer Profile

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.92">
  <merchantID>infodev</merchantID>
  <merchantReferenceCode>14344</merchantReferenceCode>
  <recurringSubscriptionInfo>
    <subscriptionID>0000562489861111</subscriptionID>
  </recurringSubscriptionInfo>
  <paySubscriptionRetrieveService run="true"/>
</requestMessage>
```
Example      Reply: Retrieving a Customer Profile

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.92">
  <c:requestID>3790672461500176056470</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:recurringSubscriptionRetrieveReply>
    <c:approvalRequired>false</c:approvalRequired>
    <c:automaticRenew>false</c:automaticRenew>
    <c:cardAccountNumber>4111111111111111</c:cardAccountNumber>
    <c:cardExpirationMonth>12</c:cardExpirationMonth>
    <c:cardExpirationYear>2015</c:cardExpirationYear>
    <c:cardType>001</c:cardType>
    <c:city>The City</c:city>
    <c:country>US</c:country>
    <c:currency>USD</c:currency>
    <c:email>john.doe@example.com</c:email>
    <c:firstName>John</c:firstName>
    <c:frequency>on-demand</c:frequency>
    <c:lastName>Doe</c:lastName>
    <c:ownerMerchantID>infodev1</c:ownerMerchantID>
    <c:paymentMethod>credit card</c:paymentMethod>
    <c:paymentsRemaining>0</c:paymentsRemaining>
    <c:postalCode>94045</c:postalCode>
    <c:reasonCode>100</c:reasonCode>
    <c:state>CA</c:state>
    <c:status>CURRENT</c:status>
    <c:street1>123 The Street</c:street1>
  </c:recurringSubscriptionRetrieveReply>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
</c:replyMessage>
```

Example      Request: Deleting a Customer Profile

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.92">
  <merchantID>infodev</merchantID>
  <merchantReferenceCode>14344</merchantReferenceCode>
  <recurringSubscriptionInfo>
    <subscriptionID>0000562489861111</subscriptionID>
  </recurringSubscriptionInfo>
  <paySubscriptionDeleteService run="true"/>
</requestMessage>
```
Example  Reply: Deleting a Customer Profile

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.92">
  <c:paySubscriptionDeleteReply>
    <c:reasonCode>100</c:reasonCode>
    <c:subscriptionID>0000562489861111</c:subscriptionID>
  </c:paySubscriptionDeleteReply>
  <c:requestID>3790672461500176056470</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
</c:replyMessage>
```