Payment Tokenization

Using the Simple Order API

December 2016



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Recent Revisions to This Document

Release	Changes
December 2016	Added the invoiceHeader_merchantDescriptorAlternate field. See page 51.
June 2016	■ Added <i>OmniPay Direct</i> as a supported processor. See page 14.
	 Renamed Global Collect to Ingenico ePayments. See page 14.
May 2016	This revision contains only editorial changes and no technical updates.
April 2016	Updated the "Creating a Customer Profile without a Setup Fee" example. See page 73.
March 2016	 Added Comercio Latino as a supported processor. See page 12.
	 Updated the "Removing Card Expiration Dates" section. See page 31.
	 Updated the "Removing Card Expiration Dates" examples. See page 75.
January 2016	 Added the "Relaxed Requirements for Address Data and Expiration Date" section. See page 19.
	 Added the "Removing Card Expiration Dates" section. See page 31.
	 Added the "Removing Card Expiration Dates" example. See page 75.
	 Amex Direct no longer supports 0.00 preauthorizations.

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

Convention	Usage
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

Subject	Description
Account Updater	Account Updater User Guide (PDF HTML)—describes how to automatically incorporate changes made to a customer's payment card data.
Business Center	Business Center Overview (PDF HTML)—describes the features and options available within the Business Center.
Credit Card	Credit Card Services Using the Simple Order API (PDF HTML)—describes how to integrate credit card processing into your order management system.
eCheck	Electronic Check Services Using the Simple Order API (PDF HTML)—describes how to integrate eCheck processing into your order management system.
Offline Transaction Submission	Offline Transaction File Submission Implementation Guide (PDF HTML).
Payment Network Tokenization	Payment Network Tokenization Using the Simple Order API (PDF HTML)—describes how to add payment network tokenization to an order management system that already uses CyberSource credit card services.
PINIess Debit	PINIess Debit Card Services Using the Simple Order API (PDF HTML)—describes how to integrate PINIess debit processing using the Simple Order API into your order management system.
Recurring Billing	Recurring Billing Using the Simple Order API (PDF HTML)— describes how to create customer subscriptions and process installment or recurring payments.
Reporting	Reporting Developer Guide (PDF HTML)—describes how to view and configure Business Center reports.

Table 1 Related Documents (Continued)

Subject	Description
Simple Order API	 Getting Started with CyberSource Advanced for the Simple Order API (PDF HTML)—describes how to get started using the Simple Order API.
	 Simple Order API and SOAP Toolkit API Documentation and Downloads page.
	 Simple Order API and SOAP Toolkit API Testing Information page.
Secure Acceptance Silent Order POST	Secure Acceptance Silent Order POST Development Guide (PDF HTML)—describes how to create a Secure Acceptance profile and integrate seamlessly with Secure Acceptance Silent Order POST.
Secure Acceptance Web Mobile	Secure Acceptance Web/Mobile Configuration Guide (PDF HTML)—describes how to create a Secure Acceptance profile and integrate seamlessly with Secure Acceptance Web/Mobile.

Customer Support

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

http://www.cybersource.com/support

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 11) 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.



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 26), update the payment network token details (see page 31), and replace a payment network token with updated card details (see page 33).

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 30).
- Change the payment method of a customer profile (seepage 34).
- Process an on-demand transaction using the customer profile details. You can
 process an authorization, credit, PINIess debit validate, PINIess debit, eCheck credit,
 and an eCheck debit (see page 36).
- Retrieve customer profile information (see page 37).
- Delete a customer profile (see page 37).
- Share customer profiles (see page 39).

Secure Acceptance

Payment Token

If you are using Secure Acceptance to process transactions, the payment token is the customer profile ID (see page 10). The payment token identifies the card and retrieves the associated billing, shipping, and card information. For Secure Acceptance documentation, see "Related Documents," page 8.

Supported Processors and Payment Methods

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



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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 38.



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 2 Supported Processors and Payment Methods

Processor	Payment Method	
AIBMS	Credit card.	
American Express Brighton	Credit card.	
	Important Only American Express card types are supported.	
	Important Does not support automatic preauthorization reversals.	
American Express Direct	Debit card and pre-paid card—supports partial authorizations.	
	Important Only American Express card types are supported.	
Asia-Mideast Processing	Credit card.	
Barclays	Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.	

Table 2 Supported Processors and Payment Methods (Continued)

Processor	Payment Method
CCS (CAFIS)	Credit card.
Chase Paymentech Solutions	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, and Diners Club cards.
	■ Electronic check.
	■ Visa Bill Payments—see page 39.
Citibank	Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
Comercio Latino	Credit card—supports 1.00 preauthorizations using Visa, MasterCard, American Express, Discover, Diners Club, JCB, Hipercard, Aura, and Elo cards.
CyberSource ACH Service	Electronic check.
CyberSource through VisaNet	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	 Credit card—supports 1.00 preauthorizations for American Express, Discover, Diners Club, and JCB card types.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Diners Club, JCB, and Discover cards.
FDC Compass	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, and Discover cards.
	■ Visa Bill Payments—see page 39.
FDC Nashville Global	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB (US Domestic) cards.
	■ Visa Bill Payments—see page 39.
FDMS Nashville	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB (US Domestic) cards.
	■ Visa Bill Payments—see page 39.

Table 2 Supported Processors and Payment Methods (Continued)

Processor	Payment Method
FDMS South	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, and JCB (US Domestic) cards.
Ingenico ePayments	Credit card.
GPN	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB cards.
	■ PINIess debit.
	 Visa Bill Payments—see page 39.
HSBC	Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	Important Does not support automatic preauthorization reversals.
Litle	 Credit card—supports 0.00 preauthorizations for American Express, Diners Club, Discover, JCB, MasterCard, and Visa cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB cards.
LloydsTSB Cardnet	Credit card.
Moneris	Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
Omnipay Direct	Credit card—supports 0.00 preauthorizations using Visa, MasterCard, Maestro (International), and Maestro (UK Domestic).
OmniPay-Ireland	 Credit card—supports 0.00 preauthorizations using Visa and MasterCard cards.
	■ Visa Bill Payments—see page 39.
RBS WorldPay Atlanta	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
	■ Electronic check.
Streamline	Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards.
TeleCheck	Electronic check—supports 1.00 preauthorizations.

Table 2 Supported Processors and Payment Methods (Continued)

Processor Payment Method	
TSYS Acquiring Solutions	 Credit card—supports 0.00 preauthorizations for Visa and MasterCard cards and 1.00 preauthorizations using American Express, Discover, Diners Club, and JCB cards.
	 Debit card and pre-paid card—supports partial authorizations for Visa, MasterCard, American Express, Discover, Diners Club, and JCB cards.
	 Visa Bill Payments—see page 39.

Types of Authorizations

Table 3 Types of Authorizations

Authorization	Description	
Automatic Preauthorization	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 21.	
	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.	
	Note Partial authorizations for prepaid cards and debit cards cannot be performed for automatic preauthorizations.	
	Important Contact your merchant account provider to determine whether you will be charged a fee for a preauthorization.	
Manual Preauthorization	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 23.	
	Important Contact your merchant account provider to determine whether you will be charged a fee for a preauthorization.	

Table 3 Types of Authorizations (Continued)

Authorization	Description
Automatic Preauthorization Reversal	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.
	Important TSYS Acquiring Solutions, American Express Brighton, and HSBC do not support automatic preauthorization reversals.
Partial Authorization	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.

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 PINIess 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 PINIess 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 18) 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:

Credit Card Type	Test Account Number
Visa	411111111111111
MasterCard	555555555554444
American Express	378282246310005
Discover	601111111111117
JCB	3566111111111113
Diners Club	3800000000006
Maestro International (16 digits)	6000340000009859
Maestro Domestic (16 digits)	6759180000005546

СНАР



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

Relaxed Requirements for Address Data and Expiration Date

Service:

paySubscriptionCreateService

Processors:

- American Express Direct
- Chase Paymentech Solutions
- CyberSource through VisaNet
- FDC Compass
- FDC Nashville Global
- FDMS South
- Ingenico ePayments
- 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 make the following fields optional:

- billTo city
- billTo_country
- billTo_email
- billTo_firstname
- billTo_lastname
- billTo_postalCode: if you include this field in your request, you must also include billTo_country.
- billTo_state
- billTo_street1
- card_expirationMonth: if you include this field in your request, you must also include card_expirationYear.
- card_expirationYear: If you include this field in your request, you must also include card_expirationDate.



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

Validating a Customer Profile



PINIess debits cannot be preauthorized. You must validate the card before you create the customer profile. See "PINIess Debit Validation," page 24.

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 25.



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 10.

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

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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 using the Business Center:

- **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 24.
- 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 12.

To manually preauthorize a card customer profile:

- Step 1 Request the paySubscriptionCreateService_run service. See "Credit Card without a Setup Fee," page 24.
- 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 28.
- Step 2 Include the following fields:
 - ecDebitService_run—set to true.
 - ecDebitService_paymentMode—set to 1.

PINIess Debit Validation

PINIess 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 21.

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

- merchantReferenceCode
- purchaseTotals currency
- recurringSubscriptionInfo_frequency—set to on-demand.

Credit Card with a Setup Fee



You must validate the customer account before the customer profile is created. See "Validating a Customer Profile," page 21.

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.

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=vbv.
 - 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

- billTo_state
- billTo street1
- card_accountNumber—populate with the network token value obtained from your payment network token provider.
- card_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.

eCheck



You must validate the customer account before the customer profile is created. See "Validating a Customer Profile," page 21.

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.

PINIess Debit



You must validate the customer account before the customer profile is created. See "PINIess Debit Validation," page 24.

To create a PINIess 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 41 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 73 for a request and reply example.

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 10), 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*.

Updating Card Account Number

To update a customer's card account number:

- 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 19.
 - 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 19.
 - 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 21. New billing and shipping information can be included in the request.

Removing Card Expiration Dates

To remove a customer's card expiration dates:

- **Step 1** Set the **paySubscriptionUpdateService_run** service field to **true**.
- **Step 2** Include the following fields in the request:
 - card expirationMonth—set to 0.
 - card expirationYear—set to 0.
 - merchantID
 - merchantReferenceCode
 - recurringSubscriptionInfo subscriptionID

See Appendix A, "API Fields," on page 41, for detailed descriptions of the request and reply fields. See page 75, for a request and reply example.

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 10.



Updated billing and shipping information can also be included in the request. To remove a customer profile value, 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

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 10.



Updated billing and shipping information can also be included in the request. To remove a customer profile value, 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

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 10.



Updated billing and shipping information can also be included in the request. To remove a customer profile value, 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

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 21. 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 38.

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 credit card (see page 24), check (see page 28), or pinless debit (see page 29).
 - merchantID
 - merchantReferenceCode
 - recurringSubscriptionInfo_subscriptionID

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 (authorization and capture combined), and credit.
- Electronic checks—debit and credit.
- PINIess 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 41 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 73 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

See Appendix A, "API Fields," on page 41 for detailed descriptions of the request and reply fields.

Converting a Transaction to a Customer Profile



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 21.



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 41 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 73 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 41 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 73 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 41 for detailed descriptions of the request and reply fields. See Appendix B, "Examples," on page 73 for a request and reply example.

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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.



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.



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 **recurringsubscrptionInfo_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 37). If the customer profile is not enabled for profile sharing, CyberSource returns the reason code 150 (see page 66).
- Update customer profile information—in your request include your merchant ID and the profile ID of the customer profile (see page 30). If the customer profile is not enabled for profile sharing, CyberSource returns the reason code 150 (see page 66).
- 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 35). If

the customer profile is not enabled for profile sharing, CyberSource returns the reason code 150 (see page 66).

You cannot delete a customer profile that has a merchant ID other than your own.

Account Updater

CyberSource Account Updater is integrated with the Payment Tokenization functionality so that your customer profiles 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 can use the Account Updater REST API to submit a batch of profile IDs (tokens) to be processed by the Account Updater service or CyberSource can configure your account to automatically update your customer profiles with updated credit card data. See the *Account Updater User Guide* (PDF | HTML).



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

Service Name	Shortened Service Name
paySubscriptionCreateService	Create
paySubscriptionDeleteService	Delete
paySubscriptionUpdateService	Update
paySubscriptionRetrieveService	Retrieve

Data Type Definitions

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

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

Request Fields

Table 4 Request Fields

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type 8 Length
billTo_city	City of the billing address.	Create (R) ¹	String (50)
		Update (O)	
billTo_company	Name of the customer's company.	Create (O)	String (60)
	CyberSource through VisaNet	Update (O)	
	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.		
billTo_companyTaxID	Tax identifier for the customer's company. Important Contact your TeleCheck	Create (see description)	String (9)
	representative to find out whether this field is required or optional.	Update (see description)	
billTo_customerID	Your identifier for the customer.	Create (O)	String (100)
		Update (O)	
billTo_dateOfBirth	Customer date of birth.	Create (O)	String (10)
	Format: YYYY-MM-DD or YYYYMMDD	Update (O)	
billTo_driversLicenseNumber	Customer's driver's license number.	Create (see	String (30)
	Important Contact your TeleCheck representative to find out whether this field	description) Update (see	
	is required or optional.	description)	

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

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

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
billTo_street1	First line of the billing address.	Create (R) ¹	CyberSource
		Update (O)	through VisaNet: String (40)
			Litle: String (35)
			Moneris: String (50)
			All other processors: String (60)
billTo_street2	Second line of the billing address.	Create (O) Update (O)	CyberSource through VisaNet: String (40)
			Litle: String (35)
			Moneris: String (50)
			All other processors: String (60)
businessRules_ declineAVSFlags	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 69.	Create (O)	String (255)
	Important You must include the value N in the list if you want to receive declines for the AVS code N.		

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
businessRules_ ignoreAVSResult		String (5)	
	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.		
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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
card_cardType	Type of card to authorize. For more information about which cards can be	Create (R for card payments)	String (3)
	handled by each processor, see "Supported Processors and Payment Methods," page 12.	Update (O)	
	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. 		
	 050: Hipercard—supported only by the Comercio Latino processor. 		
	 051: Aura—supported only by the Comercio Latino processor. 		
	 054: Elo—supported only by the Comercio Latino processor. 		

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
card_cvIndicator	Indicates whether a card verification number was included in the request. Possible values:	Create (O)	String with numbers only (1)
	 0 (default): CVN service not requested. This default is used if you do not include card_cvNumber in the request. 		
	 1 (default): CVN service requested and supported. This default is used if you include card_cvNumber in the request. 		
	2: CVN on credit card is illegible.		
	9: CVN was not imprinted on credit card.		
card_cvNumber	Card verification number. Include this field only if you are using automatic preauthorization and want to run the CVN check. See page 21.	Create (O)	String with numbers only (4)
	Do not include this field if your processor is Global Collect.		
card_expirationMonth	Expiration month.	Create (R for card payments) Update ¹	String (2)
	Format: MM		
card_expirationYear	Expiration year.	Create (R for	FDC Nashville Global and FDMS South:
	Format: YYYY	card payments)	
	FDC Nashville Global and FDMS South	Update ¹	String (See
	You can send in 2 digits or 4 digits. When		description)
	you send in 2 digits, they must be the last 2 digits of the year.		All other processors: String (4)
card_issueNumber	Indicates the number of times a Maestro	Create (see description)	String (5)
	(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.	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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
card_startMonth	Month of the start of the Maestro (UK Domestic) card validity period. The card	Create (see description)	Integer (2)
	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.	Update (O)	
	Format: MM		
	Possible values: 01 to 12.		
card_startYear	Year of the start of the Maestro (UK Domestic) card validity period. The card	Create (see description)	Integer (4)
	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.	Update (O)	
	Format: YYYY		
ccAuthService_cavv	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.	network token	String (40)
	American Express 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.	American Express)	
ccAuthService_	In-App Transactions	Create (R-	String (13)
commerceIndicator	Type of payer authentication fields that are being used for the payment network tokenization transaction. Possible values:	required for payment network token	
	aesk: American Express SafeKey	transaction)	
	spa: MasterCard SecureCode		
	vbv: Verified by Visa		

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
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.	Create (R- required for payment network token transactions with Visa and	String (40)
	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.	American Express)	
check_accountNumber	Checking account number.	Create (R for eCheck payments)	String (17)
		Update (O)	
check_accountType	Checking account type. Possible values:	Create (R for	String (1)
	■ C: checking	eCheck payments)	
	S: savings (USD only)	Update (O)	
	X: corporate checking (USD only)	opuato (o)	
	■ G: general ledger		
check_bankTransitNumber	Bank routing number. This value is also known as the <i>transit number</i> .	Create R for eCheck payments)	String (9)
		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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
check_secCode	Important This field is required if your processor is TeleCheck.	Create (R) Update (O)	String (3)
	Code that specifies the authorization method for the transaction. Possible values:	J (1)	
	 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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
decisionManager_enabled	Indicates whether to use Decision Manager for a customer profile.	Create (O)	String (5)
	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 21. Also see "Supported Processors and Payment Methods," page 12.		
	If you 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 HMTL) 		
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.		
invoiceHeader_	For the description, used-by information,	Create	
merchantDescriptorAlternate	data type, and length, see Merchant Descriptors in Credit Card Services Using	Retrieve	
	the Simple Order API (PDF HTML).	Update	
		Delete	

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
item_0_unitPrice	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 "Charging a Setup Fee," page 21, and "Manually Preauthorizing a Customer Profile," page 23.	Create (see description) Update (O)	String (15)
merchantDefinedData_field1 merchantDefinedData_field2 merchantDefinedData_field3 merchantDefinedData_field4	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 "Optional Data Storage," page 38.	Create (O) Update (O)	String (255)
	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, 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.		
	Note 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.		

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. Important It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
merchantID	Your CyberSource merchant ID.	Required for all services	String (30)
merchantReferenceCode	Merchant-generated order reference or tracking number.	Required for all services	Asia, Middle East, and Africa Gateway: String (40)
			Atos: String (32)
			All other processors: String (50)
merchantSecureData_field1	Storage fields for any type of data. The only	Create (O)	String (100)
merchantSecureData_field2	validation performed on these fields is a size check. The data is encrypted before it	Update (O)	
merchantSecureData_field3	is stored in the database. To understand the different kinds of data storage fields see "Optional Data Storage," page 38.		
merchantSecureData_field4	Storage field for any type of data. The only	Create (O)	String (2K)
	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 "Optional Data Storage," page 38.	Update (O)	
	Note The maximum number of characters allowed is 2048.		
paymentNetworkToken_ requestorID	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 "Including the Payment Network Token," page 26.	Create (O)	Integer (11)
	Note This field is supported only for CyberSource through VisaNet and FDC Nashville Global.		

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
paymentNetworkToken_ transactionType	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 "Including the Payment Network Token," page 26.	Create (R- required for payment network token transaction)	String (1)
	Value:		
	1: In-app transaction. An application on the customer's mobile device provided the token data for an e-commerce transaction.		
paySubscriptionCreateService _disableAutoAuth	Indicates whether to turn off the preauthorization check when creating this customer profile, as described in "Optional Data Storage," page 38. 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:	Create (O)	String (5)
	 false: No, go ahead and perform the preauthorization for this customer profile. 		
	 true: Yes, turn off the preauthorization check for this customer profile. 		
paySubscriptionCreateService _paymentRequestID	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.	Create (see description)	String (26)
	Important This field is required when converting an existing authorization to a customer profile.		
purchaseTotals_currency	Currency used by the customer.	Create (R)	String (5)
		Update (O)	
purchaseTotals_ grandTotalAmount	Use this field or item_0_unitPrice to specify the amount for a setup fee or for a	Create (see description)	String (15)
	manual preauthorization. These features are not available for all payment methods. See "Validating a Customer Profile," page 21.	Update (O)	
recurringSubscriptionInfo_	Amount of the customer profile payments.	Create (O)	String (15)
amount	This value can be 0.	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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
recurringSubscriptionInfo_	Flag that indicates that this is a payment for	Create (O)	String (1)
billPayment	a bill or for an existing contractual loan. See "Visa Bill Payment Program," page 39. This value is case sensitive. Possible values:	Update (O)	
	 false (default): Not a bill payment or loan payment. 		
	true: Bill payment or loan payment.		
recurringSubscriptionInfo_ frequency	Frequency of payments for the customer profile.	Create (R)	String (20)
	Value: on-demand.		
recurringSubscriptionInfo_	Value that identifies the customer profile for	Update (R)	String (26)
subscriptionID	which the service is being requested. This value was sent to you when the customer profile was created.	Retrieve (R)	
shipTo_city	City of the shipping address.	Create (O)	String (50)
		Update (O)	
shipTo_country	Country code for the shipping address. Use the two-character ISO country codes.	Create (O)	String (2)
		Update (O)	
shipTo_firstName	First name of the person receiving the product.	Create (O)	String (60)
		Update (O)	
shipTo_lastName	Last name of the person receiving the	Create (O)	String (60)
	product.	Update (O)	
shipTo_phoneNumber	Phone number of the person receiving the product. When creating a customer profile,	Create (see description)	String (15)
	the requirements depend on the payment method:	Update (see description)	
	Credit cards—optional.	- ,	
	 Electronic checks—contact your payment processor representative to find out if this field is required or optional. 		
	■ PINIess debits—optional.		

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
shipTo_postalCode	Postal code for the shipping address. The	Create (O)	String (10)
	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	Update (O)	
	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.		
shipTo_state	State or province in the shipping address. Use the two-character ISO state and province code.	Create (O)	String (2)
		Update (O)	
shipTo_street1	First line of the street address in the	Create (O)	String (60)
	shipping address.	Update (O)	
shipTo_street2	Second line of the street address in the	Create (O)	String (60)
	shipping address.	Update (O)	
subscription_paymentMethod	Method of payment. See "Supported Processors and Payment Methods,"	Create (see description)	String (20)
	page 12.	Update (O)	
	Possible values:		
	 credit card (default when creating a customer profile) 		
	■ check		
	■ other		
	pinless debit		
subscription_title	Name or title for the customer profile.	Create (O)	String (60)
		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 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Table 4 Request Fields (Continued)

Field Name	Description	Used By & Required (R)/ Optional (O)	Data Type & Length
ucaf_authenticationData	Universal cardholder authentication field (UCAF) data.	Create (R- required for payment network token transactions with MasterCard)	String (32)
ucaf_collectionIndicator	Required field for payment network tokenization transactions with MasterCard. Set the value for this field to 2.	Create (R- required for payment network token transactions with MasterCard)	String with numbers only (1)

¹ This field is optional if your CyberSource account is configured for relaxed requirements for address data and expiration date. See "Relaxed Requirements for Address Data and Expiration Date," page 19. **Important** It is your responsibility to determine whether a field is required for the transaction you are requesting.

Reply Fields

Table 5 Reply Fields

Field Name	Description	Returned by	Data Type & Length
ccAuthReply_amount	Amount that was authorized.	Create	String (15)
ccAuthReply_ authorizationCode	Authorization code. Returned only when the processor returns this value. For encoded account numbers and zero amount authorizations, see the <i>Credit Card Services Using the Simple Order API</i> (PDF HTML).	Create	String (7)
ccAuthReply_ authorizationDateTime	Time of authorization.	Create	String (20)
ccAuthReply_avsCode	AVS results. See "AVS and CVN Codes," page 69.	Create	String (1)
ccAuthReply_avsCodeRaw	AVS result code sent directly from the processor. See "AVS and CVN Codes," page 69.	Create	String (1)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type 8 Length
ccAuthReply_ processorResponse	For most processors, this is the error message sent directly from the bank. Returned only when the processor returns this value.	Create	String (10)
	Important Do not use this value to evaluate the result of the transaction.		
ccAuthReply_reasonCode	Numeric value corresponding to the result of the authorization request. See "Reason Codes," page 66.	Create	Integer (5)
ccAuthReply_reconciliationID	Reference number for the transaction. This value is not returned for all processors.	Create	String (60)
	See Getting Started with CyberSource Advanced for the Simple Order API (PDF HTML) for information about order tracking and reconciliation.		
ccCaptureReply_amount	Amount that was captured.	Create	String (15)
ccCaptureReply_reasonCode	Numeric value corresponding to the result of the capture request. See "Reason Codes," page 66.	Create	Integer (5)
ccCaptureReply_ reconciliationID	Reference number for the transaction. This value is not returned for all processors.	Create	String (60)
	See Getting Started with CyberSource Advanced for the Simple Order API (PDF HTML) for information about order tracking and reconciliation. See Getting Started with CyberSource Advanced for the Simple Order API (PDF HTML) for information about order tracking and reconciliation.		
ccCaptureReply_ requestDateTime	Time of capture.	Create	String (20)
decision	Summarizes the overall results for the request. Possible values:	All services	String (6)
	■ ACCEPT		
	■ ERROR		
	■ REJECT		
invalidField_0N	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.	All services	String (100)
merchantReference Code	Order reference or tracking number that you provided in the request.	All services	String (50)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type & Length
missingField_0N	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.	All services	String (100)
paySubscriptionCreate Reply_reasonCode	Numeric value corresponding to the result of the service request. See "Reason Codes," page 66.	Create	Integer (5)
paySubscriptionCreate Reply_subscriptionID	Identifier for the customer profile.	Create	String (26)
paySubscriptionDelete Reply_reasonCode	Numeric value corresponding to the result of the service request. See "Reason Codes," page 66.	Delete	Integer (5)
paySubscriptionDelete Reply_subscriptionID	Identifier for the customer profile.	Delete	String (26)
paySubscription RetrieveReply_ merchantDefinedData Field1	Four fields for storing information. To understand the kinds of data storage fields see "Optional Data Storage," page 38.	Retrieve	String (64)
paySubscription RetrieveReply_ merchantDefinedData Field2			
paySubscription RetrieveReply_ merchantDefinedData Field3			
paySubscription RetrieveReply_ merchantDefinedData Field4			
paySubscription RetrieveReply_ merchantSecureData Field1	Data that was encrypted. CyberSource decrypts the data before returning it. To understand the different kinds of data storage fields see "Optional Data Storage,"	Retrieve	String (100)
paySubscription RetrieveReply_ merchantSecureData Field2	page 38.		
paySubscription RetrieveReply_ merchantSecureData Field3			

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type & Length
paySubscription RetrieveReply_ _postalCode	Postal code of the billing address.	Retrieve	String (10)
paySubscription RetrieveReply_approval Required	This field is not meaningful for customer profiles.	Retrieve	String (5)
paySubscription RetrieveReply_ automaticRenew	This field is not meaningful for customer profiles.	Retrieve	String (5)
paySubscription RetrieveReply_bill Payment	Indicates whether the payments for this customer profile are for the Visa Bill Payment program. Possible values:	Retrieve	String (1)
	 N (default): Not a Visa Bill Payment. 		
	■ Y: Visa Bill Payment.		
	See "Visa Bill Payment Program," page 39.		
paySubscription RetrieveReply_card AccountNumber	Card account number.	Retrieve	String (20)
paySubscription	Expiration month for the card.	Retrieve	Integer (2)
RetrieveReply_card ExpirationMonth	Format: MM		
paySubscription	Expiration year for the card.	Retrieve	Integer (4)
RetrieveReply_card ExpirationYear	Format: YYYY		
paySubscription RetrieveReply_card IssueNumber	Issue number for the Maestro (UK Domestic) card.	Retrieve	String (5)
paySubscription RetrieveReply_card	Start month for the Maestro (UK Domestic) card.	Retrieve	Integer (2)
StartMonth	Format: MM		
paySubscription RetrieveReply_card	Start year for the Maestro (UK Domestic) card.	Retrieve	Integer (4)
StartYear	Format: YYYY		
paySubscription RetrieveReply_card Type	Card type.	Retrieve	String (3)
paySubscription RetrieveReply_check AccountNumber	Bank account number.	Retrieve	Numeric (17)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type & Length
paySubscription	Account type. Possible values:	Retrieve	String (1)
RetrieveReply_check	C: checking		
AccountType	S: savings (USD only)		
	X: corporate checking (USD only)		
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)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type & Length
paySubscription RetrieveReply_checkSecCode	Code that specifies the authorization method for the transaction. Possible values:	Retrieve	String (3)
	 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. 		
	■ 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.		
	■ 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.		
	■ 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.		
paySubscription RetrieveReply_city	City of the customer's address.	Retrieve	String (50)
paySubscription RetrieveReply_ comments	Comments that you included for the customer profile.	Retrieve	String (255)
paySubscription RetrieveReply_ companyName	Name of the customer's company.	Retrieve	String (40)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type & Length
paySubscription RetrieveReply_companyTaxID	Company tax identifier.	Retrieve	Numeric (9)
paySubscription RetrieveReply_country	Country code for the billing address. Use the two-character ISO codes.	Retrieve	String (2)
paySubscription RetrieveReply_currency	Currency used by the customer.	Retrieve	String (5)
paySubscription RetrieveReply_ customerAccountID	Your identifier for the customer.	Retrieve	String (50)
paySubscription RetrieveReply_dateOfBirth	Date of birth of the customer. Format: YYYY-MM-DD or YYYYMMDD.	Retrieve	String (10)
paySubscription RetrieveReply_ driversLicenseNumber	Driver's license number of the customer.	Retrieve	String (30)
paySubscription RetrieveReply_ driversLicenseState	State or province in which the customer's driver's license was issued.	Retrieve	String (2)
paySubscription RetrieveReply_email	Customer's email address.	Retrieve	String (255)
paySubscription RetrieveReply_endDate	This field is not meaningful for customer profiles.	Retrieve	String (8)
paySubscription RetrieveReply_first Name	Customer first name.	Retrieve	String (60)
paySubscription RetrieveReply_ frequency	Frequency of payments for the customer profile. Possible value: on-demand: No payment schedule	Retrieve	String (20)
paySubscription RetrieveReply_last Name	Customer last name.	Retrieve	String (60)
paySubscription RetrieveReply_ merchantReference Code	Merchant-generated order reference or tracking number.	Retrieve	String (50)
paySubscription RetrieveReply_ merchantSecureData Field4	Data that was encrypted. CyberSource decrypts the data before returning it. To understand the different kinds of data storage fields see "Optional Data Storage," page 38.	Retrieve	String (2048)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type & Length
paySubscription RetrieveReply_ merchantSecureData Field4	Data that was encrypted. CyberSource decrypts the data before returning it. See "Optional Data Storage," page 38.	Retrieve	String (2k)
paySubscription RetrieveReply_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 39.	Retrieve	String (30)
paySubscription RetrieveReply_ phoneNumber	Customer's phone number.	Retrieve	String (20)
paySubscription RetrieveReply_reason Code	Numeric value corresponding to the result of the service request. See "Reason Codes," page 66.	Retrieve	Integer (5)
paySubscription RetrieveReply_ recurringAmount	Payment amount for the customer profile.	Retrieve	String (15)
paySubscription RetrieveReply_setup Amount	Amount of the setup fee.	Retrieve	String (15)
paySubscription RetrieveReply_shipTo City	City of the shipping address.	Retrieve	String (50)
paySubscription RetrieveReply_shipTo Company	Name of the company that is receiving the product.	Retrieve	String (60)
paySubscription RetrieveReply_shipTo Country	Country code for the shipping address. Use the two-character ISO codes.	Retrieve	String (2)
paySubscription RetrieveReply_shipTo FirstName	First name of the person receiving the product.	Retrieve	String (60)
paySubscription RetrieveReply_shipTo LastName	Last name of the person receiving the product.	Retrieve	String (60)
paySubscription RetrieveReply_shipTo PostalCode	Postal code in the shipping address.	Retrieve	String (10)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type 8 Length
paySubscription RetrieveReply_shipTo State	State or province of shipping address. Use the two-character ISO state and province codes.	Retrieve	String (2)
paySubscription RetrieveReply_shipTo Street1	First line of the shipping address.	Retrieve	String (60)
paySubscription RetrieveReply_shipTo Street2	Second line of the shipping address.	Retrieve	String (60)
paySubscription RetrieveReply_start Date	This field is not meaningful for customer profiles.	Retrieve	String (8)
paySubscription RetrieveReply_state	State or province of billing address. Use the two-character ISO state and province codes.	Retrieve	String (2)
paySubscription RetrieveReply_status	Status of the customer profile. Possible values:	Retrieve	String (9)
	 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. 		
paySubscription RetrieveReply_subscriptionID	Identifier for the customer profile.	Retrieve	String (16 or 22)
paySubscription	Identifier for the customer profile.	Retrieve	String (16)
RetrieveReply_ subscriptionIDNew	Note This 16-digit profile ID supersedes the previous profile ID for the same customer profile.		
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 39.	Update	String (30)
paySubscriptionUpdate Reply_reasonCode	Numeric value corresponding to the result of the service request. See "Reason Codes," page 66.	Update	Integer (5)

Table 5 Reply Fields (Continued)

Field Name	Description	Returned by	Data Type & Length
paySubscriptionUpdate Reply_subscriptionID	Identifier for the customer profile.	Update	String (16 or 22)
paySubscription UpdateReply_ subscriptionIDNew	Identifier for the customer profile. Note This 16-digit profile ID supersedes the previous profile ID for the same customer profile.	Update	String (16)
reasonCode	Numeric value corresponding to the result of the entire request. See "Reason Codes," page 66.	All services	Integer (5)
requestID	Identifier for the request.	All services	String (26)
requestToken	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.	All Services	String (256)

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).



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.



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.

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Table 6 Reason Codes for the Simple Order API

Reason Code	Description
100	Successful transaction.
101	Missing required fields.
	Possible action: See the reply fields missingField_0N for which fields are missing. Resend the request with the complete information.
102	Invalid data.
	Possible action: See the reply fields invalidField_0N for which fields are invalid. Resend the request with the correct information.
110	Partial amount approved.
	Possible action: See "Supported Processors and Payment Methods," page 12
150	General system failure.
	See the documentation for your CyberSource client for information about how to handle retries in the case of system errors.
151	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.
152	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.
200	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.
201	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.
202	Expired card.
	Request a different card or other form of payment.
203	General decline of the card. No other information provided by the issuing bank.
	Request a different card or other form of payment.
204	Insufficient funds in the account.
	Request a different card or other form of payment.

Table 6 Reason Codes for the Simple Order API (Continued)

Reason Code	Description
205	Stolen or lost card.
	Refer the transaction to your customer support center for manual review.
207	Issuing bank unavailable.
	Wait a few minutes and resend the request.
208	Inactive card or card not authorized for card-not-present transactions.
	Request a different card or other form of payment.
209	American Express Card Identification Digits (CIDs) did not match.
	Request a different card or other form of payment.
210	The card has reached the credit limit.
	Request a different card or other form of payment.
211	Invalid card verification number.
	Request a different card or other form of payment.
220	The processor declined the request based on a general issue with the customer's account.
	Request a different form of payment.
221	The customer matched an entry on the processor's negative file.
	Review the order and contact the payment processor.
222	The customer's bank account is frozen.
	Review the order or request a different form of payment.
230	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.
231	Invalid account number.
	Request a different card or other form of payment.
232	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.
233	General decline by the processor.
	Request a different card or other form of payment.
234	There is a problem with your CyberSource merchant configuration.
	Do not resend the request. Contact Customer Support to correct the configuration problem.
236	Processor failure.
	Wait a few minutes and resend the request.

Table 6 Reason Codes for the Simple Order API (Continued)

Reason Code	Description
240	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.
250	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.

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 7 International AVS Codes

Code	Response	Description
В	Partial match	Street address matches, but postal code is not verified.
С	No match	Street address and postal code do not match.
D & M	Match	Street address and postal code match.
ļ	No match	Address is not verified.
Р	Partial match	Postal code matches, but street address is not verified.

U.S. Domestic AVS Codes

Table 8 Domestic AVS Codes

Code	Response	Description
Α	Partial match	Street address matches, but 5-digit and 9-digit postal codes do not match.
В	Partial match	Street address matches, but postal code is not verified.
С	No match	Street address and postal code do not match.
D & M	Match	Street address and postal code match.
Е	Invalid	AVS data is invalid, or AVS is not allowed for this card type.
F	Partial match	Card member's name does not match, but billing postal code matches. Returned only for the American Express card type.
G		Not supported.
Н	Partial match	Card member's name does not match, but street address and postal code match. Returned only for the American Express card type.
I	No match	Address not verified.
J	Match	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.
K	Partial match	Card member's name matches, but billing address and billing postal code do not match. Returned only for the American Express card type.
L	Partial match	Card member's name and billing postal code match, but billing address does not match. Returned only for the American Express card type.
M	Match	Street address and postal code match.
N	No match	One of the following:
		 Street address and postal code do not match.
		 Card member's name, street address, and postal code do not match. Returned only for the American Express card type.
0	Partial match	Card member's name and billing address match, but billing postal code does not match. Returned only for the American Express card type.
Р	Partial match	Postal code matches, but street address not verified.
Q	Match	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.

Table 8 Domestic AVS Codes (Continued)

Code	Response	Description
S	Not supported	U.Sissuing bank does not support AVS.
T	Partial match	Card member's name does not match, but street address matches. Returned only for the American Express card type.
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.
Υ	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 9 CVN Codes

Code	Description
D	The transaction was considered suspicious by the issuing bank.
I	The CVN failed the processor's data validation.
М	The CVN matched.
N	The CVN did not match.
Р	The CVN was not processed by the processor for an unspecified reason.
S	The CVN is on the card but was not included in the request.
U	Card verification is not supported by the issuing bank.
Χ	Card verification is not supported by the card association.
1	Card verification is not supported for this processor or card type.
2	An unrecognized result code was returned by the processor for the card verification response.

Table 9 CVN Codes (Continued)

Code	Description
3	No result code was returned by the processor.



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=41111111111111111 card_expirationMonth=12 card_expirationYear=2018 card_cardType=001 merchantID=demoID merchantReferenceCode=1111 recurringSubscriptionInfo_frequency=on-demand paySubscriptionCreateService_run=true

Example Reply: Creating a Customer Profile without a Setup Fee

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=41111111111111111 card_expirationMonth=12 card_expirationYear=2018 card_cardType=001 merchantID=demoID merchantReferenceCode=1111 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=1111 paySubscriptionCreateReply_reasonCode=100 paySubscriptionCreateReply_subscriptionID=0000562549841111 purchaseTotals_currency=USD reasonCode=100 requestID=3790757213580176056470

Updating a Customer Profile

Updating a Card Account Number

Example Request: Updating a Card Account Number

merchantID=demoID
merchantReferenceCode=0001
card_accountNumber=41111111111111112
card_expirationMonth=12
card_expirationYear=2018
card_cardType=001
recurringSubscriptionInfo_subscriptionID=0000562489861111
paySubscriptionUpdateService_run=true

Example Reply: Updating a Card Account Number

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

Removing Card Expiration Dates

Example Request: Removing Card Expiration Dates

merchantID=demoID
merchantReferenceCode=0001
card_expirationMonth=0
card_expirationYear=0
recurringSubscriptionInfo_subscriptionID=0000562489861111
paySubscriptionUpdateService_run=true

Example Reply: removing Card Expiration Dates

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=4111111XXXXXXX1111 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">
  <merchantID>infodev</merchantID>
  <merchantReferenceCode>14344</merchantReferenceCode>
   <firstName>John</firstName>
   <lastName>Doe
   <street1>1295 Charleston Road
   <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
   <expirationMonth>12</expirationMonth>
   <expirationYear>2015</expirationYear>
   <cardType>001</cardType>
  </card>
  <recurringSubscriptionInfo>
   <frequency>on-demand</frequency>
  </recurringSubscriptionInfo>
  <paySubscriptionCreateService run="true"/>
</requestMessage>
```

Example Reply: Creating a Customer Profile without a Setup Fee

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.92">
   <c:ccAuthReply>
      <c:amount>0.00</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:merchantReferenceCode>1111</c:merchantReferenceCode>
  <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>
```

Creating a Customer Profile with a 5.00 Setup Fee

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

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.92">
 <merchantID>infodev</merchantID>
  <merchantReferenceCode>14344</merchantReferenceCode>
 <billTo>
   <firstName>John</firstName>
   <lastName>Doe</lastName>
   <street1>1295 Charleston Road
   <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>
```

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

```
<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:merchantReferenceCode>1111</c:merchantReferenceCode>
   <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

Updating a Card Account Number

Example Request: Updating a Customer Profile (Card Details)

Example Reply: Updating a Customer Profile (Card Details)

Removing Card Expiration Dates

Example Request: Removing Card Expiration Dates

Example Reply: Removing Card Expiration Dates

Retrieving a Customer Profile

Example Request: Retrieving a Customer Profile

Example Reply: Retrieving a Customer Profile

```
<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:merchantReferenceCode>1111</c:merchantReferenceCode>
   <c:recurringSubscriptionRetrieveReply>
      <c:approvalRequired>false</c:approvalRequired>
      <c:automaticRenew>false</c:automaticRenew>
      <c:cardAccountNumber>41111111111111111
      <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:subscriptionID>0000562489861111
   </c:recurringSubscriptionRetrieveReply>
  <c:purchaseTotals>
      <c:currency>USD</c:currency>
   </c:purchaseTotals>
</c:replyMessage>
```

Deleting a Customer Profile

Example Request: Deleting a Customer Profile

Example Reply: Deleting a Customer Profile