Service Fee Processing Using the Simple Order API

Supplement to
Credit Card Services Using the Simple Order API
and
Electronic Check Services Using the Simple Order API

June 2018

CyberSource®

the power of payment

CyberSource Contact Information

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

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

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

Copyright

Restricted Rights Legends

Trademarks

Contents

Recent Revisions to This Document

Release	Changes
June 2018	This revision contains only editorial changes and no technical updates.
August 2017	Moved the relaxed requirements information to a web page: Relaxed Requirements for Address Data and Expiration Date page.
March 2017	Added information for credit cards: ■ Final authorization indicator. See "Authorizing the Principal Amount and Service Fee," page 11. ■ Multiple captures. See "Capturing the Principal Amount and Service Fee," page 12. ■ Voids. See "Voiding a Capture or Credit," page 16. Added information for electronic checks for voids. See "Voiding a Debit or Credit," page 20.
March 2016	Added relaxed requirements for address data and expiration date for credit card transactions. See "Relaxed Requirements for Address Data and Expiration Date," page 9.
September 2014	Added information for requesting a credit: ■ For credit cards, see "Crediting the Principal Amount and Service Fee," page 14. ■ For electronic checks, see "Crediting the Principal and Service Fee," page 19.
July 2014	This revision contains only editorial changes and no technical updates.
May 2014	Initial release.

About This Guide

Audience and Purpose

This guide is written for application developers who want to use the CyberSource Simple Order API to integrate service fees into their order management system. You can use service fees with credit card processing and electronic check processing.

Implementing the CyberSource credit card services and electronic check services requires software development skills. You must write code that uses the API request and reply fields to integrate the credit card services into your existing order management system.

Conventions

Notes and Important Statements

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

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

Text and Command Conventions

Convention	Usage
bold	■ Field and service names in text; for example: Include the **ics_applications** field. ■ Items that you are instructed to act upon; for example: Click **Save**.
italic	■ Filenames and pathnames. For example: Add the filter definition and mapping to your *web.xml* file. ■ Placeholder variables for which you supply particular values.
`screen text`	■ XML elements ■ Code examples ■ Values for API fields; for example: Set the **ccAuthService_run** field to `true`.

Related Documents

■ *Getting Started with CyberSource Advanced for the Simple Order API* (PDF | HTML)

■ *Credit Card Services Using the Simple Order API* (PDF | HTML)

■ *Electronic Check Services Using the Simple Order API* (PDF | HTML)

■ *Secure Acceptance Silent Order POST Development Guide* (PDF | HTML)

■ *Secure Acceptance Web/Mobile Configuration Guide* (PDF | HTML)

Refer to the Support Center for complete CyberSource technical documentation:

http://www.cybersource.com/support_center/support_documentation

Customer Support

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

http://www.cybersource.com/support

Service Fees in Credit Card Transactions

CyberSource service fee processing works with the CyberSource credit card services, which are described in *Credit Card Services Using the Simple Order API*. Service fees are supported for FDC Nashville Global for the following card types:

- Visa

- Mastercard

- American Express

- Discover

Requirements

As part of the checkout process on your web site, you must display a terms and conditions statement for the service fee. A customer must accept the terms and conditions before submitting an order.

To enable the service fee feature, contact CyberSource Customer Support to have your CyberSource account configured for this feature.

Limitations

Service fees have the following limitations:

- Airline data is supported only for the principal amount, not for the service fee.

- Level II and Level III data are supported only for the principal amount, not for the service fee.

- The following features are not supported for transactions that include service fees:
  - AVS
  - CVN
  - Partial authorizations
  - Verbal authorizations

API Versions for the XML Schema

When you use the Simple Order API in XML format, you must use version 1.98 or later of the XML schema to implement service fee processing.

Merchant Reference Codes

CyberSource provides a service that prevents duplicate merchant reference codes for transactions. When this service is turned on for service fee transactions, the merchant reference codes cannot be duplicated from the principle transaction to the service fee transaction, which causes the service fee transaction to fail. To prevent this kind of failure, CyberSource updated the service to allow duplicate merchant reference codes for service fee transactions even when the service is turned on.

For more information about this service, or to turn the service on or off, contact CyberSource Customer Support.

Relaxed Requirements for Address Data and Expiration Date

To enable relaxed requirements for address data and expiration date, contact CyberSource Customer Support to have your account configured for this feature. For details about relaxed requirements, see Relaxed Requirements for Address Data and Expiration Date page.

Processing a Service Fee

Note   The fields mentioned in this section are described in "Request Fields," page 22. Additional fields for authorizations, authorization reversals, captures, credits, and voids are described in *Credit Card Services Using the Simple Order API*.

Service fees in credit card transactions are processed in the following services:

- Service fee calculation
- Authorization
- Full authorization reversal
- Capture
- Credit
- Void
- Authorization reversal after void

Calculating the Service Fee

1   You include the following required fields in your request for the service fee calculate service:

- card_accountNumber
- merchantID
- merchantReferenceCode
- purchaseTotals_currency
- purchaseTotals_grandTotalAmount or at least one **item_#_unitPrice** field.
- serviceFeeCalculateService_run: Set this field to `true`.

2   One of the fields that CyberSource includes in the reply message is **serviceFeeCalculateReply_amount**.

Authorizing the Principal Amount and Service Fee

1 You include the following fields in your authorization request:

■ businessRules_ignoreAVSResult: Set this field to `true`.

■ businessRules_ignoreCVResult: Set this field to `true`.

■ purchaseTotals_serviceFeeAmount: Set this field to the value of the **serviceFeeCalculateReply_amount** field that you received in the service fee calculate reply message.

Note	The final authorization indicator is supported on FDC Nashville Global. For more information about the final authorization indicator, see *Credit Card Services Using the Simple Order API*.

For information about creating an authorization request, see *Credit Card Services Using the Simple Order API*.

Important	CyberSource always provides the following service fee merchant descriptor values to FDC Nashville Global for all service fee authorization transactions:

■ serviceFee_merchantDescriptor

■ serviceFee_merchantDescriptorContact

■ serviceFee_merchantDescriptorState

For each service fee merchant descriptor, when you do not include the merchant descriptor value in your request, CyberSource uses the value that is in your CyberSource account. When the value is not included in your request or in your CyberSource account, FDC Nashville Global uses the value that is in your First Data merchant master file.

To add a merchant descriptor value to your CyberSource account, contact CyberSource Customer Support.

2 CyberSource sends an authorization request for the principal amount to the processor.

The *principal amount* is either the value of **purchaseTotals_grandTotalAmount** or the sum of the amounts for all of the items in the transaction.

3 If the authorization for the principal amount fails, CyberSource returns the pertinent error information to you in the reply message, and none of the remaining events in this description occur.

4 If the authorization for the principal amount succeeds, CyberSource sends an authorization request for the service fee to the processor.

CyberSource sends the same authorization indicator value that was sent in the authorization request for the principal amount.

5   If the authorization for the service fee fails, CyberSource reverses the authorization for the principal amount and returns the pertinent error information to you in the reply message, and none of the remaining events in this description occur.

Reversing an Authorization

If you decide to reverse the authorizations instead of capturing them, you must include the following values in your request for a full authorization reversal:

- Principal amount, which is either the value of **purchaseTotals_grandTotalAmount** or the sum of the amounts for all the items in the transaction

- purchaseTotals_serviceFeeAmount

For information about creating a request to reverse an authorization, see *Credit Card Services Using the Simple Order API*.

Capturing the Principal Amount and Service Fee

1   If the authorization for the service fee succeeds, you include the following values in your capture request:

- Principal amount, which is either the value of **purchaseTotals_grandTotalAmount** or the sum of the amounts for all the items in the transaction

- purchaseTotals_serviceFeeAmount

!

Important

CyberSource always provides the following service fee merchant descriptor values to FDC Nashville Global for all service fee capture transactions:

- serviceFee_merchantDescriptor
- serviceFee_merchantDescriptorContact
- serviceFee_merchantDescriptorState

For each service fee merchant descriptor, when you do not include the merchant descriptor value in your request, CyberSource uses the value that is in your CyberSource account. When the value is not included in your request or in your CyberSource account, FDC Nashville Global uses the value that is in your First Data merchant master file.

To add a merchant descriptor value to your CyberSource account, contact CyberSource Customer Support.

Multiple captures are supported for the principal amount and service fee amount. In the first capture request, you must include the entire service fee amount that was authorized, or you can split the service fee amount between the first and subsequent capture

requests. CyberSource recommends that you include the full service fee in the first capture request.

Include the following special request fields in each capture request when you are requesting multiple partial captures:

- ccCaptureService_sequence
- ccCaptureService_totalCount

For information about creating a capture request and multiple captures, see *Credit Card Services Using the Simple Order API*.

2 CyberSource examines the principal capture amount to determine whether it qualifies to be sent to the processor.

The principal capture amount qualifies to be sent to the processor when any of the following statements are true:

- It equals the authorized principal amount.
- It is less than the authorized principal amount.
- It exceeds the authorized principal amount, and your CyberSource account is configured to allow capture amounts to exceed authorized amounts.

The principal capture amount does not qualify to be sent to the processor when any of the following statements are true:

- It is not included in the request.
- It is an invalid value.
- It exceeds the authorized principal amount, and your CyberSource account is not configured to allow capture amounts to exceed authorized amounts.

3 If the principal capture amount does not qualify to be sent to the processor, CyberSource returns the pertinent error information to you in the reply message. CyberSource does not submit the capture requests to the processor and does not reverse the authorized amounts, and none of the remaining events in this description occur.

> **Note** You can correct the principal capture amount and resend the capture request.

4 If the principal capture amount qualifies to be sent to the processor, CyberSource examines the service fee capture amount to determine whether it qualifies to be sent to the processor.

The service fee capture amount qualifies to be sent to the processor when any of the following statements are true:

- It equals the authorized service fee amount.
- It is less than the authorized service fee amount.
- It exceeds the authorized service fee amount, and your CyberSource account is configured to allow capture amounts to exceed authorized amounts.

The service fee capture amount does not qualify to be sent to the processor when any of the following statements are true:

- It is not included in the request.

- It is an invalid value.

- It exceeds the authorized service fee amount, and your CyberSource account is not configured to allow capture amounts to exceed authorized amounts.

- The authorization request did not include a service fee amount.

5   If the service fee capture amount does not qualify to be sent to the processor, CyberSource returns the pertinent error information to you in the reply message. CyberSource does not submit the capture requests to the processor and does not reverse the authorized amounts, and none of the remaining events in this description occur.

> **Note**
> If the authorization and capture requests included a service fee amount, you can correct the service fee capture amount and resend the capture request.
>
> If the authorization request did not include a service fee amount, you can resend the capture request without the service fee amount.

6   If the service fee capture amount qualifies to be sent to the processor, CyberSource sends the following requests to the processor:

- Capture request for the principal amount.

- Capture request for the service fee amount.

7   If one or both captures fail, CyberSource returns the pertinent error information to you in the reply message, and none of the remaining events in this description occur.

If one capture fails and the other capture succeeds, CyberSource does not void the successful capture.

8   If both captures succeed, you have successfully authorized and captured the principal amount and the service fee.

Crediting the Principal Amount and Service Fee

1   You can credit the principal amount, the service fee amount, or both amounts (optional).

- To credit only the principal amount, include one of the following values in your credit request:

  - purchaseTotals_grandTotalAmount

  - Sum of the amounts for all items in the transaction

- To credit only the service fee amount, include the following fields and values in your credit request:

  - purchaseTotals_serviceFeeAmount

  - purchaseTotals_grandTotalAmount = 0 (zero)

  - ccCreditService_captureRequestID = request ID that was returned in the capture reply for the principal amount

- To credit both amounts, include the following values in your credit request:

  - Either the value of **purchaseTotals_grandTotalAmount** or the sum of the amounts for all the items in the transaction

  - purchaseTotals_serviceFeeAmount

![!] **Important**

CyberSource always provides the following service fee merchant descriptor values to FDC Nashville Global for all service fee capture transactions:

- serviceFee_merchantDescriptor
- serviceFee_merchantDescriptorContact
- serviceFee_merchantDescriptorState

For each service fee merchant descriptor, when you do not include the merchant descriptor value in your request, CyberSource uses the value that is in your CyberSource account. When the value is not included in your request or in your CyberSource account, FDC Nashville Global uses the value that is in your First Data merchant master file.

To add a merchant descriptor value to your CyberSource account, contact CyberSource Customer Support.

For information about creating a credit request, see *Credit Card Services Using the Simple Order API*.

2 If the service fee credit amount qualifies to be sent to the processor, CyberSource sends the following requests to the processor:

- Credit request for the principal amount
- Credit request for the service fee amount

3 If one or both credits fail, CyberSource returns the pertinent error information to you in the reply message, and none of the remaining events in this description occur.

If one credit fails and the other credit succeeds, CyberSource does not void the successful credit.

4 If both credits succeed, you have successfully credited the principal amount and the service fee.

Voiding a Capture or Credit

You can void captures and credits.

For information about voiding captures and credits, see *Credit Card Services Using the Simple Order API*.

Reversing an Authorization after a Void

If you decide to reverse the authorizations after a void, you must include the following values in your request for a full authorization reversal:

- Principal amount, which is either the value of **purchaseTotals_grandTotalAmount** or the sum of the amounts for all the items in the transaction

- purchaseTotals_serviceFeeAmount

For information about authorization reversal after void (ARAV), see *Credit Card Services Using the Simple Order API*.

Service Fees in Electronic Check Transactions

CyberSource service fee processing works with the CyberSource electronic check services, which are described in *Electronic Check Services Using the Simple Order API*. Service fees are supported for the CyberSource ACH Service.

Requirements

As part of the checkout process on your web site, you must display a terms and conditions statement for the service fee. A customer must accept the terms and conditions before submitting an order.

To enable the service fee feature, contact CyberSource Customer Support to have your CyberSource account configured for this feature.

API Versions for the XML Schema

When you use the Simple Order API in XML format, you must use version 1.98 or later of the XML schema to implement service fee processing.

Merchant Reference Codes

CyberSource provides a service that prevents duplicate merchant reference codes for transactions. When this service is turned on for service fee transactions, the merchant reference codes cannot be duplicated from the principle transaction to the service fee transaction, which causes the service fee transaction to fail. To prevent this kind of failure, CyberSource updated the service to allow duplicate merchant reference codes for service fee transactions even when the service is turned on.

For more information about this service, or to turn the service on or off, contact CyberSource Customer Support.

Processing a Service Fee

> **Note**
>
> The fields mentioned in this section are described in "Request Fields," page 22. Additional fields for the debit service are described in *Electronic Check Services Using the Simple Order API*.

Service fees in electronic check transactions are processed in the following services:

- Service fee calculation
- Debit
- Credit

Calculating the Service Fee

1   You include the following required fields in your request for the service fee calculate service:

- check_accountNumber
- merchantID
- merchantReferenceCode
- purchaseTotals_currency
- purchaseTotals_grandTotalAmount or at least one **item_#_unitPrice** field.
- serviceFeeCalculateService_run: Set this field to `true`.

2   One of the fields that CyberSource includes in the reply message is **serviceFeeCalculateReply_amount**.

Debiting the Principal and Service Fee

1   You include the **purchaseTotals_serviceFeeAmount** field in your debit request.

Set this field to the value of the **serviceFeeCalculateReply_amount** field that you received in the service fee calculate reply message.

For information about creating a debit request, see *Electronic Check Services Using the Simple Order API*.

2   CyberSource sends a debit request for the principal amount to the processor.

The *principal amount* is either the value of **purchaseTotals_grandTotalAmount** or the sum of the amounts for all of the items in the transaction.

3   If the debit for the principal amount fails, CyberSource returns the pertinent error information to you in the reply message, and none of the remaining events in this description occur.

4 If the debit for the principal amount succeeds, CyberSource sends a debit request for the service fee to the processor.

5 If the debit for the service fee fails, CyberSource returns the pertinent error information to you in the reply message, and none of the remaining events in this description occur.

6 If the debit for the service fee succeeds, you have successfully debited the principal amount and the service fee.

Crediting the Principal and Service Fee

1 You can credit the principal amount, the service fee amount, or both amounts (optional).

- To credit only the principal amount, include one of the following values in your credit request:

  - purchaseTotals_grandTotalAmount

  - Sum of the amounts for all items in the transaction

- To credit only the service fee amount, include the following fields and values in your credit request:

  - purchaseTotals_serviceFeeAmount

  - purchaseTotals_grandTotalAmount = 0 (zero)

  - ecCreditService_debitRequestID = request ID that was returned in the debit reply for the principal amount

- To credit both amounts, include the following values in your credit request:

  - Either the value of **purchaseTotals_grandTotalAmount** or the sum of the amounts for all the items in the transaction

  - purchaseTotals_serviceFeeAmount

  For information about creating a credit request, see *Electronic Check Services Using the Simple Order API*.

2 If the service fee credit amount qualifies to be sent to the processor, CyberSource sends the following requests to the processor:

- Credit request for the principal amount
- Credit request for the service fee amount

3 If one or both credits fail, CyberSource returns the pertinent error information to you in the reply message, and none of the remaining events in this description occur.

If one credit fails and the other credit succeeds, CyberSource does not void the successful credit.

4   If both credits succeed, you have successfully authorized and credited the principal amount and the service fee.

Voiding a Debit or Credit

You can void debits and credits.

For information about voiding debits and credits, see *Electronic Check Services Using the Simple Order API*.

API Fields

Formatting Restrictions

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

Note	The values of the **item_#_** fields must not contain carets (^) or colons (:) because these characters are reserved for use by the CyberSource services.
	Values for request-level and item-level fields must not contain new lines or carriage returns. However, they can contain embedded spaces and any other printable characters. CyberSource removes all leading and trailing spaces.

Data Type Definitions

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

Table 1   Data Type Definitions

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 2   Request Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
businessRules_ ignoreAVSResult	Flag that indicates whether to allow the authorization for the service fee to run even when the authorization for the principal amount receives an AVS decline. For successful service fee processing, set this value to `true`. Possible values: ■ `true`: Ignore the results of AVS checking and run the authorization for the service fee. ■ `false` (default): If the authorization receives an AVS decline, do not run the authorization for the service fee. When the value of this field is `true`, the list in the **businessRules_declineAVSFlags** field is ignored.	ccAuthService (Required for service fee transactions)	String (5)

1 To add this value to your CyberSource account, contact CyberSource Customer Support.

Table 2   Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
businessRules_ ignoreCVResult	Flag that indicates whether to allow the authorization for the service fee to run even when the authorization for the principal amount receives a CVN decline, as indicated by a **ccAuthReply_cvCode** value of D or N. For successful service fee processing, set this value to true. Possible values: ■ true: Ignore the results of CVN checking and run the authorization for the service fee. ■ false (default): If the authorization receives a CVN decline, do not run the authorization for the service fee.	ccAuthService (Required for service fee transactions)	String (5)
card_accountNumber	Customer's credit card number.	serviceFeeCalculate Service (R)	String with numbers only (20)
item_#_unitPrice	Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.	serviceFeeCalculate Service (You must include either this field or **purchaseTotals_ grandTotalAmount** in your request. For information about items and grand totals, see *Getting Started with CyberSource Advanced for the Simple Order API*.)	String (15)
merchantID	Your CyberSource merchant ID. Use the same merchant ID for evaluation, testing, and production.	serviceFeeCalculate Service (R)	String (30)
merchantReference Code	Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For information about tracking orders, see *Getting Started with CyberSource Advanced for the Simple Order API*.	serviceFeeCalculate Service (R)	String (50)
purchaseTotals_ currency	Currency used for the order. For the possible values, see the *ISO Standard Currency Codes*.	serviceFeeCalculate Service (R)	String (5)

1 To add this value to your CyberSource account, contact CyberSource Customer Support.

Table 2   Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
purchaseTotals_ grandTotalAmount	Grand total for the order. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.	serviceFeeCalculate Service (You must include either this field or **item_#_unitPrice** in your request. For information about items and grand totals, see *Getting Started with CyberSource Advanced for the Simple Order API*.)	String (15)
purchaseTotals_ serviceFeeAmount	Service fee.	ccAuthService ccAuthReversal Service ccCaptureService ecDebitService Required for service fee transactions.	String (15)

1 To add this value to your CyberSource account, contact CyberSource Customer Support.

Table 2   Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
serviceFee_ merchantDescriptor	Name of the service provider that is collecting the service fee. The service provider name must consist of 3, 7, or 12 characters followed by an asterisk (*). This value must also include the words *Service Fee.* When you include more than one consecutive space, extra spaces are removed. Use one of the following formats for this value: ■ <3-character name>*Service Fee ■ <7-character name>*Service Fee ■ <12-character name>*Service Fee When payments are made in installments, this value must also include installment information such as *1 of 5* or *3 of 7.* For installment payments, use one of the following formats for this value: ■ <3-character name>*Service Fee*<N> of <M> ■ <7-character name>*Service Fee*<N> of <M> ■ <12-character name>*Service Fee*<N> of <M> where <N> is the payment number and <M> is the total number of payments. When you do not include this value in your request, CyberSource uses the value that is in your CyberSource account.[1] This value might be displayed on the cardholder's statement.	ccAuthService (O) ccCaptureService (O)	String (22)
serviceFee_ merchantDescriptor Contact	Contact information for the service provider that is collecting the service fee. when you include more than one consecutive space, extra spaces are removed. When you do not include this value in your request, CyberSource uses the value that is in your CyberSource account.[1] This value might be displayed on the cardholder's statement.	ccAuthService (O) ccCaptureService (O)	String (11)

1 To add this value to your CyberSource account, contact CyberSource Customer Support.

Table 2   Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
serviceFee_ merchantDescriptor State	State or territory in which the service provider is located. When you do not include this value in your request, CyberSource uses the value that is in your CyberSource account.[1] This value might be displayed on the cardholder's statement.	ccAuthService (O) ccCaptureService (O)	String (20)
serviceFeeCalculate Service_run	Whether to include **serviceFeeCalculate Service** in your request. Set this field to `true`.	serviceFeeCalculate Service (R)	String (5)

1 To add this value to your CyberSource account, contact CyberSource Customer Support.

Reply Fields

Table 3   Reply Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
decision	Summarizes the result of the overall request. Possible values: ■ `ACCEPT` ■ `ERROR` ■ `REJECT` ■ `REVIEW`: Returned only when you use CyberSource Decision Manager. For details about these values, see the information about handling replies in *Getting Started with CyberSource Advanced for the Simple Order API*.	serviceFeeCalculate Reply	String (6)
invalidField_0...N	Fields in the request that have invalid data. For information about missing or invalid fields, see *Getting Started with CyberSource Advanced for the Simple Order API*. **Note** These fields are included as an aid to software developers only. Do not use these fields to interact with your customers.	serviceFeeCalculate Reply	String (100)

Table 3   Reply Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
merchantReference Code	Order reference or tracking number that you provided in the request. If you included multi-byte characters in this field in the request, the returned value might include corrupted characters.	serviceFeeCalculate Reply	String (50)
missingField_0...N	Required fields that were missing from the request. For information about missing or invalid fields, see *Getting Started with CyberSource Advanced for the Simple Order API*. **Note** These fields are included as an aid to software developers only. Do not use these fields to interact with your customers.	serviceFeeCalculate Reply	String (100)
purchaseTotals_ currency	Currency used for the order. For the possible values, see the *ISO Standard Currency Codes*.	serviceFeeCalculate Reply	String (5)
reasonCode	Numeric value corresponding to the result of the overall request. See the appendixes of reason codes in *Credit Card Services Using the Simple Order API* and *Electronic Check Services Using the Simple Order API*.	serviceFeeCalculate Reply	Integer (5)
requestID	Identifier for the request.	serviceFeeCalculate Reply	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. The string can contain a maximum of 256 characters.	serviceFeeCalculate Reply	String (256)

Table 3   Reply Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
serviceFeeCalculate Reply_amount	Service fee.	serviceFeeCalculate Reply	String (15)
serviceFeeCalculate Reply_reasonCode	Numeric value corresponding to the result of the credit card authorization request. See the appendixes of reason codes in *Credit Card Services Using the Simple Order API* and *Electronic Check Services Using the Simple Order API*.	serviceFeeCalculate Reply	Integer (5)
serviceFeeCalculate Reply_ requestDateTime	Date and time at which the service was requested. Format: YYYY-MM-DDThh:mm:ssZ **Example** 2018-08-11T22:47:57Z equals August 11, 2018, at 22:47:57 (10:47:57 p.m.). The T separates the date and the time. The Z indicates UTC.	serviceFeeCalculate Reply	String (20)

Examples

Name-Value Pair Examples

Credit Card Examples

Example 1   Service Fee Calculate Request

```
serviceFeeCalculateService_run=true
merchantID=CyberVacations
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
purchaseTotals_grandTotalAmount=2325.00
purchaseTotals_currency=USD
card_accountNumber=4111111111111111
```

Example 2   Service Fee Calculate Reply

```
decision=ACCEPT
reasonCode=100
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=0305782650000167905080
serviceFeeCalculateReply_reasonCode=100
serviceFeeCalculateReply_amount=30.00
purchaseTotals_currency=USD
```

Example 3   Credit Card Authorization Request

```
ccAuthService_run=true
merchantID=CyberVacations
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
billTo_street1=123 Arbor Rd.
billTo_city=Tree Village
billTo_state=CA
billTo_postalCode=12345
billTo_country=US
billTo_email=jsmith@example.com
billTo_firstName=Jane
billTo_lastName=Smith
billTo_phoneNumber=123-456-7890
purchaseTotals_grandTotalAmount=2325.00
purchaseTotals_currency=USD
purchaseTotals_serviceFeeAmount=30.00
card_expirationMonth=12
card_expirationYear=2015
card_accountNumber=4111111111111111
businessRules_ignoreAVSResult=true
businessRules_ignoreCVResult=true
```

Example 4   Credit Card Authorization Reply

```
decision=ACCEPT
reasonCode=100
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=0305782650000167905080
ccAuthReply_reasonCode=100
ccAuthReply_amount=2325.00
purchaseTotals_currency=USD
```

Example 5   Credit Card Capture Request

```
ccCaptureService_run=true
merchantID=CyberVacations
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
ccCaptureService_authRequestID=0305782650000167905080
purchaseTotals_grandTotalAmount=2325.00
purchaseTotals_currency=USD
purchaseTotals_serviceFeeAmount=30.00
serviceFee_merchantDescriptor=CyberVacations Service Fee
serviceFee_merchantDescriptorContact=800-999-9999
serviceFee_merchantDescriptorState=CA
```

Example 6 **Credit Card Capture Reply**

```
decision=ACCEPT
reasonCode=100
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=1019827520348290570293
ccCaptureReply_reasonCode=100
ccCaptureReply_reconciliationID=1094820975023470
ccCaptureReply_amount=2325.00
purchaseTotals_currency=USD
```

Electronic Check Examples

Example 7 **Service Fee Calculate Request**

```
serviceFeeCalculateService_run=true
merchantID=CyberVacations
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
purchaseTotals_grandTotalAmount=2325.00
purchaseTotals_currency=USD
check_accountNumber=12345678
```

Example 8 **Service Fee Calculate Reply**

```
decision=ACCEPT
reasonCode=100
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=0305782650000167905080
serviceFeeCalculateReply_reasonCode=100
serviceFeeCalculateReply_amount=30.00
purchaseTotals_currency=USD
```

Example 9 Electronic Check Debit Request

```
ecDebitService_run=true
merchantID=CyberVacations
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
billTo_street1=123 Arbor Rd.
billTo_city=Tree Village
billTo_state=CA
billTo_postalCode=12345
billTo_country=US
billTo_email=jsmith@example.com
billTo_firstName=Jane
billTo_lastName=Smith
billTo_phoneNumber=123-456-7890
purchaseTotals_grandTotalAmount=2325.00
purchaseTotals_currency=USD
purchaseTotals_serviceFeeAmount=30.00
check_accountNumber=12345678
check_accountType=C
check_bankTransitNumber=112200439
```

Example 10 Electronic Check Debit Reply

```
decision=ACCEPT
reasonCode=100
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=0305782650000167905080
ecDebitReply_reasonCode=100
ecDebitReply_settlementMethod=A
ecDebitReply_amount=2325.00
ecDebitReply_verificationLevel=1
ecDebitReply_reconciliationID=02RYXSPGCQH60NWA
ecDebitReply_processorResponse=123456
purchaseTotals_currency=USD
```

XML Examples

Credit Card Examples

Example 11   Service Fee Calculate Request

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.98">
    <merchantID>CyberVacations</merchantID>
    <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
    <purchaseTotals>
        <currency>USD</currency>
        <grandTotalAmount>2325.00</grandTotalAmount>
    </purchaseTotals>
    <card>
        <accountNumber>4111111111111111</accountNumber>
    </card>
    <serviceFeeCalculateService_run="true"/>
</requestMessage>
```

Example 12   Service Fee Calculate Reply

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.98">
    <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
    <c:requestID>0305782650000167905080</c:requestID>
    <c:decision>ACCEPT</c:decision>
    <c:reasonCode>100</c:reasonCode>
    <c:purchaseTotals>
        <c:currency>USD</c:currency>
    </c:purchaseTotals>
    <c:serviceFeeCalculateReply>
        <c:reasonCode>100</c:reasonCode>
        <c:amount>30.00</c:amount>
    </c:serviceFeeCalculateReply>
</c:replyMessage>
```

Example 13   Credit Card Authorization Request

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.98">
    <merchantID>CyberVacations</merchantID>
    <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
    <billTo>
        <firstName>Jane</firstName>
        <lastName>Smith</lastName>
        <street1>123 Arbor Rd.</street1>
        <city>Tree Village</city>
        <state>CA</state>
        <postalCode>12345</postalCode>
        <country>US</country>
        <phoneNumber>123-456-7890</phoneNumber>
        <email>jsmith@example.com</email>
    </billTo>
    <purchaseTotals>
        <currency>USD</currency>
        <grandTotalAmount>2325.00</grandTotalAmount>
        <serviceFeeAmount>30.00</serviceFeeAmount>
    </purchaseTotals>
    <card>
        <accountNumber>4111111111111111</accountNumber>
        <expirationMonth>12</expirationMonth>
        <expirationYear>2015</expirationYear>
    </card>
    <ccAuthService run="true"/>
    <businessRules>
        <ignoreAVSResult>true</ignoreAVSResult>
        <ignoreCVResult>true</ignoreCVResult>
    </businessRules>
</requestMessage>
```

Example 14   Credit Card Authorization Reply

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.98">
    <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
    <c:requestID>0305782650000167905080</c:requestID>
    <c:decision>ACCEPT</c:decision>
    <c:reasonCode>100</c:reasonCode>
    <c:purchaseTotals>
        <c:currency>USD</c:currency>
        <c:grandTotalAmount>2325.00</c:grandTotalAmount>
    </c:purchaseTotals>
    <c:ccAuthReply>
        <c:reasonCode>100</c:reasonCode>
        <c:amount>2325.00</c:amount>
    </c:ccAuthReply>
</c:replyMessage>
```

Example 15   Credit Card Capture Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.98">
    <merchantID>CyberVacations</merchantID>
    <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
    <purchaseTotals>
        <currency>USD</currency>
        <grandTotalAmount>2325.00</grandTotalAmount>
        <serviceFeeAmount>30.00</serviceFeeAmount>
    </purchaseTotals>
    <serviceFee>
        <merchantDescriptor>CyberVacations Service Fee</merchantDescriptor>
        <merchantDescriptorContact>800-999-9999</merchantDescriptorContact>
        <merchantDescriptorState>CA</merchantDescriptorState>
    </serviceFee>
    <ccCaptureService run="true">
        <authRequestID>0305782650000167905080</authRequestID>
    </ccCaptureService>
</requestMessage>
```

Example 16   Credit Card Capture Reply

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.98">
    <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
    <c:requestID>1019827520348290570293</c:requestID>
    <c:decision>ACCEPT</c:decision>
    <c:reasonCode>100</c:reasonCode>
    <c:purchaseTotals>
        <c:currency>USD</c:currency>
    </c:purchaseTotals>
    <c:ccCaptureReply>
        <c:reasonCode>100</c:reasonCode>
        <c:amount>2325.00</c:amount>
        <c:reconciliationID>1094820975023470</c:reconciliationID>
    </c:ccCaptureReply>
</c:replyMessage>
```

Electronic Check Examples

Example 17   Service Fee Calculate Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.98">
    <merchantID>CyberVacations</merchantID>
    <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
    <purchaseTotals>
        <currency>USD</currency>
        <grandTotalAmount>2325.00</grandTotalAmount>
    </purchaseTotals>
    <check>
        <accountNumber>12345678</accountNumber>
    </check>
    <serviceFeeCalculateService_run="true"/>
</requestMessage>
```

Example 18   Service Fee Calculate Reply

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.98">
    <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
    <c:requestID>3057826500001167905080</c:requestID>
    <c:decision>ACCEPT</c:decision>
    <c:reasonCode>100</c:reasonCode>
    <c:purchaseTotals>
        <c:currency>USD</c:currency>
    </c:purchaseTotals>
    <c:serviceFeeCalculateReply>
        <c:reasonCode>100</c:reasonCode>
        <c:amount>30.00</c:amount>
    </c:serviceFeeCalculateReply>
</c:replyMessage>
```

Example 19   **Electronic Check Debit Request**

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.98">
    <merchantID>CyberVacations</merchantID>
    <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
    <billTo>
        <firstName>Jane</firstName>
        <lastName>Smith</lastName>
        <street1>123 Arbor Rd.</street1>
        <city>Tree Village</city>
        <state>CA</state>
        <postalCode>12345</postalCode>
        <country>US</country>
        <phoneNumber>123-456-7890</phoneNumber>
        <email>jsmith@example.com</email>
    </billTo>
    <purchaseTotals>
        <currency>USD</currency>
        <grandTotalAmount>2325.00</grandTotalAmount>
        <serviceFeeAmount>30.00</serviceFeeAmount>
    </purchaseTotals>
    <check>
        <accountNumber>12345678</accountNumber>
        <accountType>C</accountType>
        <bankTransitNumber>112200439</bankTransitNumber>
    </check>
    <ecDebitService run="true"/>
</requestMessage>
```

Example 20   **Electronic Check Debit Reply**

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.98">
    <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
    <c:requestID>0305782650000167905080</c:requestID>
    <c:decision>ACCEPT</c:decision>
    <c:reasonCode>100</c:reasonCode>
    <c:purchaseTotals>
        <c:currency>USD</c:currency>
        <c:grandTotalAmount>2325.00</c:grandTotalAmount>
    </c:purchaseTotals>
    <c:ecDebitReply>
        <c:reasonCode>100</c:reasonCode>
        <c:settlementMethod>A</c:settlementMethod>
        <c:amount>2325.00</c:amount>
        <c:verificationLevel>1</c:verificationLevel>
        <c:reconciliationID>02RYXSPGCQH60NWA</c:reconciliationID>
        <c:processorResponse>123456</c:processorResponse>
    </c:ecDebitReply>
</c:replyMessage>
```