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
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Contents

Recent Revisions to This Document 5

About This Guide 6
Audience and Purpose 6
Conventions 6
   Notes and Important Statements 6
   Text and Command Conventions 7
Related Documents 7
Customer Support 7

Chapter 1  Service Fees in Credit Card Transactions 8
Requirements 8
Limitations 8
API Versions for the XML Schema 9
Merchant Reference Codes 9
Relaxed Requirements for Address Data and Expiration Date 9
Processing a Service Fee 10
   Calculating the Service Fee 10
   Authorizing the Principal Amount and Service Fee 11
   Reversing an Authorization 12
   Capturing the Principal Amount and Service Fee 12
   Crediting the Principal Amount and Service Fee 14
   Voiding a Capture or Credit 16
   Reversing an Authorization after a Void 16

Chapter 2  Service Fees in Electronic Check Transactions 17
Requirements 17
API Versions for the XML Schema 17
Merchant Reference Codes 17
Processing a Service Fee 18
   Calculating the Service Fee 18
## Contents

Debiting the Principal and Service Fee 18  
Crediting the Principal and Service Fee 19  
Voiding a Debit or Credit 20  

### Appendix A  API Fields  21  
- Formatting Restrictions 21  
- Data Type Definitions 22  
- Request Fields 22  
- Reply Fields 26  

### Appendix B  Examples  29  
- Name-Value Pair Examples 29  
  - Credit Card Examples 29  
  - Electronic Check Examples 31  
- XML Examples 33  
  - Credit Card Examples 33  
  - Electronic Check Examples 36  

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Service Fee Processing Using the Simple Order API | June 2018
## Recent Revisions to This Document

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

Audience and Purpose

This guide is written for application developers who want to use the CyberSource Simple Order API to integrate 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

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.
Text and Command Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Usage</th>
</tr>
</thead>
</table>
| **bold**     | ■ Field and service names in text; for example:  
  Include the 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

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.
Chapter 1  Service Fees in Credit Card Transactions

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.

   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.

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.

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.

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.
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**

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.

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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.

   You can correct the principal capture amount and resend the capture request.

   **Note**

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.

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.
Chapter 2  Service Fees in Electronic Check Transactions

Processing a Service Fee

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

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

Request Fields

Table 2  Request Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| 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)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| 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)         |
| merchantReferenceCode             | Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For information about tracking orders, see *Getting Started with CyberSource Advanced for the Simple Order API*. | `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)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>purchaseTotals_grandTotalAmount</td>
<td>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.</td>
<td>serviceFeeCalculate Service (You must include either this field or item_#_unitPrice in your request. For information about items and grand totals, see <em>Getting Started with CyberSource Advanced for the Simple Order API.</em>)</td>
<td>String (15)</td>
</tr>
<tr>
<td>purchaseTotals_serviceFeeAmount</td>
<td>Service fee.</td>
<td>ccAuthService ccAuthReversal Service ccCaptureService ecDebitService</td>
<td>String (15)</td>
</tr>
</tbody>
</table>

1 To add this value to your CyberSource account, contact CyberSource Customer Support.
### Table 2: Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| 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) |
| ccAuthService (O) ccCaptureService (O) | | |

| serviceFee_merchantDescriptor | 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.
Appendix A  API Fields

Table 2  Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By:</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>serviceFee_merchantDescriptorState</td>
<td>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. This value might be displayed on the cardholder's statement.</td>
<td>ccAuthService (O) ccCaptureService (O)</td>
<td>String (20)</td>
</tr>
</tbody>
</table>

| serviceFeeCalculateService_run | Whether to include serviceFeeCalculate Service in your request. Set this field to true. | serviceFeeCalculateService (R) | String (5) |

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

Reply Fields

Table 3  Reply Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By:</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>decision</td>
<td>Summarizes the result of the overall request. Possible values:</td>
<td>serviceFeeCalculateReply</td>
<td>String (6)</td>
</tr>
<tr>
<td></td>
<td>■ ACCEPT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ ERROR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ REJECT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ 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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>invalidField_0...N</td>
<td>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.</td>
<td>serviceFeeCalculateReply</td>
<td>String (100)</td>
</tr>
</tbody>
</table>
### Table 3  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>merchantReferenceCode</td>
<td>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.</td>
<td>serviceFeeCalculateReply</td>
<td>String (50)</td>
</tr>
<tr>
<td>missingField_0…N</td>
<td>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.</td>
<td>serviceFeeCalculateReply</td>
<td>String (100)</td>
</tr>
<tr>
<td>purchaseTotals_currency</td>
<td>Currency used for the order. For the possible values, see the ISO Standard Currency Codes.</td>
<td>serviceFeeCalculateReply</td>
<td>String (5)</td>
</tr>
<tr>
<td>reasonCode</td>
<td>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.</td>
<td>serviceFeeCalculateReply</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>requestID</td>
<td>Identifier for the request.</td>
<td>serviceFeeCalculateReply</td>
<td>String (26)</td>
</tr>
<tr>
<td>requestToken</td>
<td>Request token data created by CyberSource for each reply. The field is an encoded string that contains no confidential information such as an account or card verification number. The string can contain a maximum of 256 characters.</td>
<td>serviceFeeCalculateReply</td>
<td>String (256)</td>
</tr>
</tbody>
</table>
### Table 3  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>serviceFeeCalculate Reply _ amount</td>
<td>Service fee.</td>
<td>serviceFeeCalculate Reply</td>
<td>String (15)</td>
</tr>
<tr>
<td>serviceFeeCalculate Reply_reasonCode</td>
<td>Numeric value corresponding to the result of the credit card authorization request. See the appendixes of reason codes in <em>Credit Card Services Using the Simple Order API</em> and <em>Electronic Check Services Using the Simple Order API</em>.</td>
<td>serviceFeeCalculate Reply</td>
<td>Integer (5)</td>
</tr>
<tr>
<td>serviceFeeCalculate Reply _ requestDateTime</td>
<td>Date and time at which the service was requested. Format: YYYY-MM-DDThh:mm:ssZ</td>
<td>serviceFeeCalculate Reply</td>
<td>String (20)</td>
</tr>
</tbody>
</table>

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=03057826500000167905080  
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: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: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:requestID>1019827520340290570293</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

```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>
  <check>
    <accountNumber>12345678</accountNumber>
  </check>
  <serviceFeeCalculateService_run="true"/>
</requestMessage>
```

Example 18  Service Fee Calculate Reply

```xml
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.98">
  <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 19  Electronic Check Debit Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transactions:order-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

```
<replyMessage xmlns:c="urn:schemas-cybersource-com:transactions:order-data-1.98">
  <c:requestID>03057826500000167905080</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>
</replyMessage>
```