

## วิธีการ set ระบบ Cybersource

### 1. ลูกค้าได้รับข้อมูล Merchant ID

หลังจากที่ลูกค้าได้รับข้อมูล Merchant ID และข้อมูลที่ใช้ในการเข้า Web Cybersource จากทาง ธ.กรุงศรีแล้ว

### 2. ให้ download script สำหรับ Test ระบบ

- a. ให้ลูกค้าทำการ download script ให้ตรงกับภาษาที่ใช้เขียน Web Site โดยระบบจะมีภาษาให้เลือก ดังนี้ (ลูกค้าสามารถเข้าไป Download ตาม link ด้านล่าง)

■JSP >> [http://apps.cybersource.com/library/documentation/dev\\_guides/samples/sa\\_sc/jsp.zip](http://apps.cybersource.com/library/documentation/dev_guides/samples/sa_sc/jsp.zip)

■ASP.NET(C#) >>

[http://apps.cybersource.com/library/documentation/dev\\_guides/samples/sa\\_sc/csharp.zip](http://apps.cybersource.com/library/documentation/dev_guides/samples/sa_sc/csharp.zip)

■PHP >> [http://apps.cybersource.com/library/documentation/dev\\_guides/samples/sa\\_sc/php.zip](http://apps.cybersource.com/library/documentation/dev_guides/samples/sa_sc/php.zip)

■Perl >> [http://apps.cybersource.com/library/documentation/dev\\_guides/samples/sa\\_sc/perl.zip](http://apps.cybersource.com/library/documentation/dev_guides/samples/sa_sc/perl.zip)

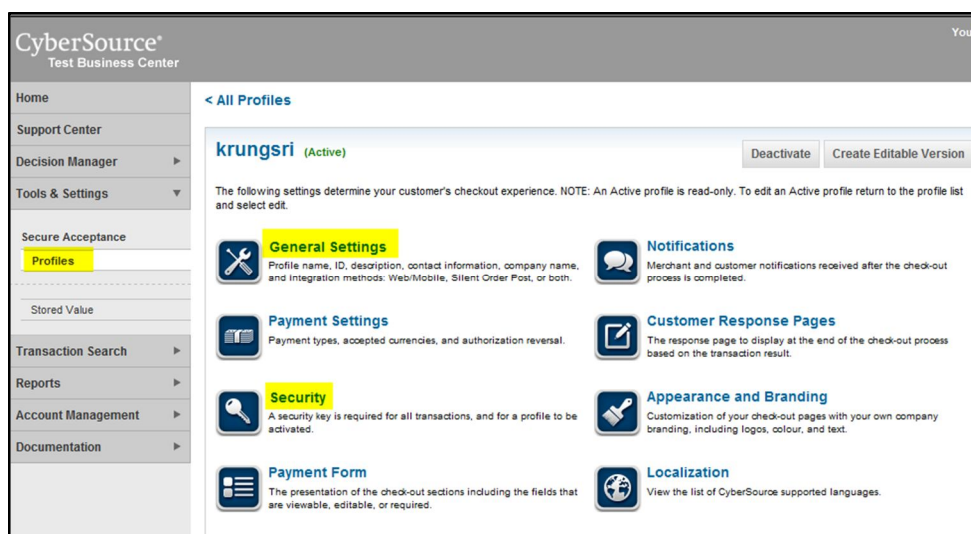
■Ruby >> [http://apps.cybersource.com/library/documentation/dev\\_guides/samples/sa\\_sc/ruby.zip](http://apps.cybersource.com/library/documentation/dev_guides/samples/sa_sc/ruby.zip)

■VB >> [http://apps.cybersource.com/library/documentation/dev\\_guides/samples/sa\\_sc/vb.zip](http://apps.cybersource.com/library/documentation/dev_guides/samples/sa_sc/vb.zip)

- b. ทำการใส่ข้อมูลค่าที่ระบบต้องการเพิ่มเติม (จาก Code ที่ไป download มา)

Step1 >> ให้เข้าไปเพิ่มค่า SECRET\_KEY ใน Code ที่ download มา (ปกติจะอยู่ใน File ชื่อ security)

Step2 >> ให้เข้าไปเพิ่มค่า access key และ profile ID ในส่วนของ Page Payment form

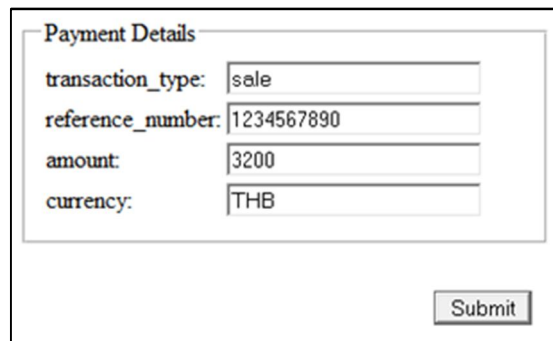


Step3 >> ใน Page ที่เป็น Payment confirm ให้คีย์ Link ที่ใช้ในการ Process ของ Test หรือ ระบบจริง

ระบบ Test : <https://testsecureacceptance.cybersource.com/pay>

ระบบจริง : <https://secureacceptance.cybersource.com/pay>

- c. ให้ทำการ Run ตัว Test โดยให้กรอกข้อมูลที่ต้องการ ดังตัวอย่างในภาพด้านล่าง (transaction\_type ต้องเป็น "sale" เสมอ)



Payment Details	
transaction_type:	sale
reference_number:	1234567890
amount:	3200
currency:	THB
<input type="button" value="Submit"/>	

- d. กรณี Test ผ่านแล้วให้ลูกค้านำ Code ไปวางไว้ใน Web Page ของลูกค้า

### 3. การทดสอบจากหน้า Page ของลูกค้า

- ให้นำ Code ที่เกี่ยวข้องไปใส่ใน Web Page Form ของลูกค้า
- กรณีลูกค้ามี Device Fingerprint ให้ลูกค้าไปดูวิธีการใส่ค่า Device fingerprint ในหัวข้อที่ 4
- ให้ Login เข้าไปดูผลการทดสอบที่หน้า Web <https://ebctest.cybersource.com>
- แล้วทำการทดสอบโดยใช้ข้อมูล Test ดังนี้

Credit Card Type	Test Account Number
Visa	4111111111111111
MasterCard	5555555555554444
American Express	378282246310005
Discover	6011111111111117
JCB	3566111111111113
Diners Club	380000000000006
Maestro International (16 digits)	6000340000009859
Maestro Domestic (16 digits)	6759180000005546

#### 4. การส่งข้อมูล Device Fingerprint

มีการใช้ parameter ทั้งหมด 3 ค่า คือ <Org ID>, <Session ID> and <Merchant ID>

##### ■ <Org ID>

Test Org ID :	1snn5n9w
Live Org ID :	k8vif92e

##### ■ <Session ID>

- ค่า Session ID (This is a uniquely generated set of alphanumeric characters).

##### ■ <Merchant ID>

- หมายเลข Merchant ID

#### ด.ย. ข้อมูล

org ID: 1snn5n9w

merchant id: krxxxxxxxx

session ID: UGPJZXFWHFOMTQFISIQCFEQ

ขั้นตอนการส่งค่า Device fingerprint มี 2 ขั้นตอน ดังนี้

Step 1 >> เพิ่ม Code ด้านล่างที่ Checkout page ของท่าน

ตัวอย่าง code:

```
<p style="background:url(https://h.online-metrix.net/fp/clear.png?org_id=<org ID>&session_id=<merchant id>&session ID&m=1)"></p>

<object type="application/x-shockwave-flash" data="https://h.online-metrix.net/fp/fp.swf?org_id=<org ID>&session_id=<merchant id>&session ID" width="1" height="1" id="thm_fp"><param name="movie" value="https://h.online-metrix.net/fp/fp.swf?org_id=<org ID>&session_id=<merchant id>&session ID" />
</object>
<script src="https://h.online-metrix.net/fp/check.js?org_id=<org ID>&session_id=<merchant id>&session ID" type="text/javascript"></script>
```

Step 2 >> เพิ่มการส่งค่า Parameter “device\_fingerprint\_id” โดยมีค่าเป็น session ID

ตัวอย่าง

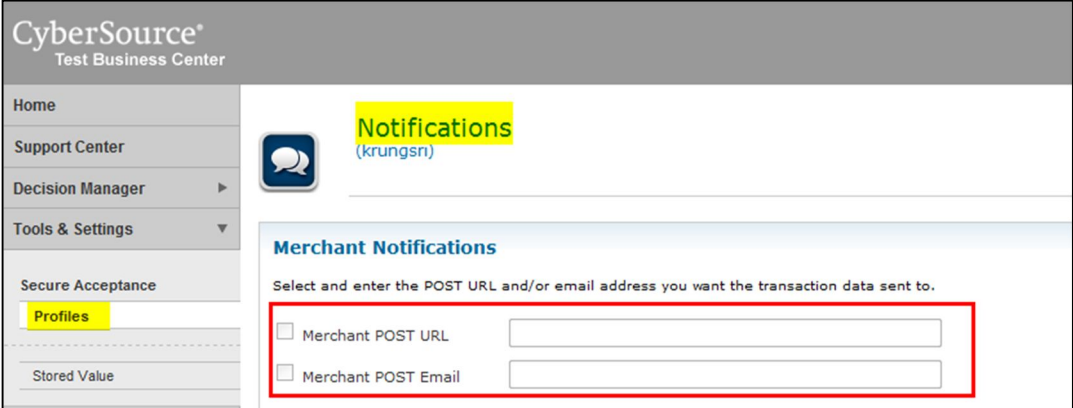
device\_fingerprint\_id="UGPJZXFWHFOMTQFISIQCFEQ"

In your HTML code, it should appear like this:

```
<input type="hidden" name="device_fingerprint_id" value="<?php echo $session_id?>" />
```

## 5. การกำหนดค่าการแจ้งเตือน

- a. ให้เข้าไปที่หน้าจอ Profile Setting เลือกหัวข้อ Notifications



The screenshot shows the CyberSource Test Business Center interface. On the left is a navigation menu with options: Home, Support Center, Decision Manager, Tools & Settings, Secure Acceptance, Profiles (highlighted in yellow), and Stored Value. The main content area is titled 'Notifications (krungsri)' with a yellow highlight. Below this is the 'Merchant Notifications' section, which contains the instruction 'Select and enter the POST URL and/or email address you want the transaction data sent to.' and two rows of checkboxes and text input fields: 'Merchant POST URL' and 'Merchant POST Email'. These two rows are enclosed in a red rectangular box.

- b. ลูกค้าสามารถเข้าไปตั้งค่าการแจ้งเตือนได้ดังนี้ (เลือกอย่างใดอย่างหนึ่ง)

- i. **Merchant POST URL**
- ii. **Merchant POST Email**

## 6. รายละเอียดเพิ่มเติม

ลูกค้าสามารถ Download ข้อมูลเพิ่มเติมได้จาก Link ด้านล่าง

[http://apps.cybersource.com/library/documentation/dev\\_guides/Secure\\_Acceptance\\_WM/Secure\\_Acceptance\\_WM.pdf](http://apps.cybersource.com/library/documentation/dev_guides/Secure_Acceptance_WM/Secure_Acceptance_WM.pdf)

# API Fields

## Required API Request Fields

Field Name	Description	Data Type & Length
access_key	Required for authentication with Secure Acceptance. See "Creating a Security Key."	String (32)
amount	Total amount for the order. Must be greater than or equal to zero and must equal the total amount of each line item including the tax amount.	String (15)
currency	Currency used for the order. For the possible values, see the <a href="#">ISO currency codes</a> .	String (5)
locale	Indicates the language to use for customer-facing content. Possible value: en-us. See "Activating a Profile."	String (5)
profile_id	Identifies the profile to use with each transaction. See "Creating a Security Key."	String (7)
reference_number	Unique merchant-generated order reference or tracking number for each transaction.	String (60)
signature	Merchant-generated Base64 signature. This is generated using the signing method for the access_key field supplied.	
signed_date_time	The date and time that the signature was generated. Must be in UTC Date & Time format. This field is used to check for duplicate transaction attempts.	String (20)
signed_field_names	<p>A comma-separated list of request fields that are signed. This field is used to generate a signature that is used to verify the content of the transaction to protect it from tampering.</p> <p><b>Important</b> To prevent data tampering CyberSource recommends signing all request API fields except the signature field. If you are PCI-compliant, CyberSource recommends that you not sign the card number field.</p>	Variable
transaction_type	The type of transaction: ■authorization ■sale ■authorization, create_payment_token	String (60)
transaction_uuid	Unique merchant-generated identifier. Include with the access_key field for each transaction. This identifier must be unique for each transaction. This field is used to check for duplicate transaction attempts.	String (50)
unsigned_field_names	A comma-separated list of request fields that are not signed.	Variable

## Optional API Request Fields

Field Name	Description	Data Type & Length
bill_to_address_city	City in the billing address.	String (50)
bill_to_address_country	Country code for the billing address. Use the two-character ISO country codes.	String (2)
bill_to_address_line1	First line of the billing address.	String (60)
bill_to_address_line2	Second line of the billing address.	String (60)
bill_to_address_postal_code	Postal code for the billing address.	String (10)
bill_to_address_state	State or province in the billing address. Use the two-character ISO state and province code.	String (2)
bill_to_company_name	Name of the customer's company.	String (40)
bill_to_email	Customer's email address, including the full domain name.	String (255)
bill_to_forename	Customer's first name. This name must be the same as the name on the card.	String (60)
bill_to_phone	Customer's phone number. CyberSource recommends that you include the country code if the order is from outside the U.S.	
bill_to_surname	Customer's last name. This name must be the same as the name on the card.	
card_cvn	Card verification number. Can be configured to optional.	String (4)
card_expiry_date	Card expiration date. Format: MM-YYYY	String (7)
card_number	Card number.	String (20)
card_type	Type of card to authorize. Use one of these values: ■001: Visa ■002: MasterCard ■003: American Express ■004: Discover ■005: Diners Club ■006: Carte Blanche ■007: JCB ■014: EnRoute ■021: JAL ■024: Maestro (UK Domestic) ■031: Delta ■033: Visa Electron ■034: Dankort ■035: Laser ■036: Carte Bleue ■037: Carta Si ■042: Maestro (International) ■043: GE Money UK card	

Field Name	Description	Data Type & Length
complete_route	Concatenation of individual travel legs in the format for example: SFO-JFK:JFK-LHR:LHR-CDG. For a complete list of airport codes, see IATA's City Code Directory. <b>Note</b> In your request, send either the complete route or the individual legs ( <b>journey_leg#_orig</b> and <b>journey_leg#_dest</b> ). If you send all the fields, the value of <b>complete_route</b> takes precedence over that of the <b>journey_leg#</b> fields.	String (255)
consumer_id	Identifier for the customer's account. This field is defined when you create a subscription.	String (50)
customer_cookies_accepted	Indicates whether the customer's browser accepts cookies. This field can contain one of the following values: ■true: customer's browser accepts cookies. ■false: customer's browser does not accept cookies	String (5)
customer_gift_wrap	Indicates whether the customer requested gift wrapping for this purchase. This field can contain one of the following values: ■true: customer requested gift wrapping. ■false: customer did not request gift wrapping.	String (5)
customer_ip_address	Customer's IP address reported by your web server via socket information.	String (15)
date_of_birth	Date of birth of the customer. Use the format: YYYYMMDD.	String (8)
departure_time	Departure data and time of the first leg of the trip. Use one of the following formats: ■yyyy-MM-dd HH:mm z ■yyyy-MM-dd hh:mm a z ■yyyy-MM-dd hh:mm z HH = 24-hour format hh = 12-hour format a = am or pm (case insensitive) z = time zone of the departing flight, for example: If the airline is based in city A, but the flight departs from city B, z is the time zone of city B at the time of departure.	
device_fingerprint_id	Field that contains the session ID for the fingerprint. The string can contain uppercase and lowercase letters, digits, and these special characters: hyphen (-) and underscore (_). However, do not use the same uppercase and lowercase letters to indicate different session IDs. The session ID must be unique for each merchant ID. You can use any string that you are already generating, such as an order number or web session ID.	String (88)

Field Name	Description	Data Type & Length
ignore_avs	Ignore the results of AVS verification. Possible values:  <input type="checkbox"/> true <input type="checkbox"/> false <b>Important</b> To prevent data tampering CyberSource recommends signing this field. See "signed_field_names,"	String (5)
ignore_cvn	Ignore the results of CVN verification. Possible values: <input checked="" type="checkbox"/> true <input checked="" type="checkbox"/> false <b>Important</b> To prevent data tampering CyberSource recommends signing this field. See "signed_field_names,"	String (5)
item_#_code	Type of product. If it is supplied, the item code must be one of the following values: <ul style="list-style-type: none"> <li>● default,</li> <li>● adult_content</li> <li>● coupon</li> <li>● electronic_good</li> <li>● electronic_software</li> <li>● gift_certificate</li> <li>● service</li> <li>● subscription</li> <li>● handling_only</li> <li>● service</li> <li>● shipping_and_handling</li> <li>● shipping_only</li> <li>● subscription</li> </ul> # is the range of 0-49	
item_#_name	Name of the item. # can range from 0 - 49.	String (255)
item_#_quantity	Quantity of line items. <b>Important</b> Required field if one of the following product codes is used: <ul style="list-style-type: none"> <li>● adult_content</li> <li>● coupon</li> <li>● electronic_good</li> <li>● electronic_software</li> <li>● gift_certificate</li> <li>● service</li> <li>● subscription</li> </ul> # can range from 0 - 49.	String (10)



Field Name	Description	Data Type & Length
item_#_sku	<p>Identification code for the product.</p> <p><b>Important</b> Required field if one of the following product codes is used:</p> <ul style="list-style-type: none"> <li>●adult_content</li> <li>●coupon</li> <li>●electronic_good</li> <li>●electronic_software</li> <li>●gift_certificate</li> <li>●service</li> <li>●subscription</li> </ul> <p># can range from 0 - 49.</p>	String (255)
item_#_tax_amount	<p>Tax amount to apply to the line item. # can range from 1- 49. This value cannot be negative. The tax amount and the offer amount must be in the same currency.</p>	String (15)
item_#_unit_price	<p>Price of the line item. # can range from 1- 49. This value cannot be negative.</p>	String (15)
journey_leg#_dest	<p>Airport code for the origin of the leg of the trip designated by the pound (#) symbol in the field name. A maximum of 30 legs can be included in the request. This code is usually three digits long, for example: SFO = San Francisco. Do not use the colon (:) or the hyphen (-). For a complete list of airport codes, see IATA's City Code Directory.</p> <p><b>Note</b> In your request, send either the <b>complete_route</b> field or the individual legs (<b>journey_leg#_orig</b> and <b>journey_leg#_dest</b>). If you send all the fields, the complete route takes precedence over the individual legs.</p>	
journey_leg#_orig	<p>Airport code for the origin of the leg of the trip designated by the pound (#) symbol in the field name. A maximum of 30 legs can be included in the request. This code is usually three digits long, for example: SFO = San Francisco. Do not use the colon (:) or the hyphen (-). For a complete list of airport codes, see IATA's City Code Directory.</p> <p><b>Note</b> In your request, send either the <b>complete_route</b> field or the individual legs (<b>journey_leg#_orig</b> and <b>journey_leg#_dest</b>). If you send all the fields, the complete route takes precedence over the individual legs.</p>	String (3)
journey_type	<p>Type of travel, such as: one way or round trip.</p>	String (32)

Field Name	Description	Data Type & Length
line_item_count	Total number of line items. Maximum number is 50.	String (2)
merchant_defined_data#	<p>Optional fields that you can use to store information. # can range from 1 - 100.</p> <p><b>Important</b> Merchant-defined data fields are not intended to and MUST NOT be used to capture personally identifying information. Accordingly, merchants are prohibited from capturing, obtaining, and/or transmitting any personally identifying information in or via the merchant-defined data fields. Personally identifying information includes, but is not limited to, card number, bank account number, social security number, driver's license number, state-issued identification number, passport number, and card verification numbers (CVV, CVC2, CVV2, CID, CVN). In the event CyberSource discovers that a merchant is capturing and/or transmitting personally identifying information via the merchant-defined data fields, whether or not intentionally, CyberSource WILL immediately suspend the merchant's account, which will result in a rejection of any and all transaction requests submitted by the merchant after the point of suspension.</p>	String (100)
merchant_secure_data1 merchant_secure_data2 merchant_secure_data3	Optional fields that you can use to store information. CyberSource encrypts the data before storing it in the database.	String (100)
merchant_secure_data4	Optional field that you can use to store information. CyberSource encrypts the data before storing it in the database.	String (2000)
override_custom_receipt_page	<p>Overrides the custom receipt profile setting with your own URL.</p> <p><b>Important</b> To prevent data tampering CyberSource recommends signing this field. See "signed_field_names,"</p>	String (255)
payment_method	Method of payment: card.	String (30)
payment_token	<p>Identifier for the payment details. The payment token retrieves the card data, billing information, and shipping information from the CyberSource database. When this field is included in the request, the card data, and billing and shipping information are optional.</p> <p><b>Important</b> You must be currently using CyberSource Payment Tokenization services. Populate this field with the customer subscription ID.</p>	String (26)
payment_token_comments	Optional comments you have for the customer subscription.	String (255)
payment_token_consumer_id	Your identifier for the customer.	String (30)
payment_token_title	Name or title for the customer subscription.	String (60)

Field Name	Description	Data Type & Length
recurring_amount	Payment amount for each installment or recurring subscription payment.	String (15)
recurring_frequency	Frequency of payments for an installment or recurring subscription.	String (20)
recurring_start_date	First payment date for an installment or recurring subscription payment. Date must use the format YYYYMMDD. If a date in the past is supplied the start date will default to the day after the date was entered.	String (8)
recurring_number_of_installments	Total number of payments set up for an installment subscription. # can range from 1- 156.	String (3)
returns_accepted	Indicates whether product returns are accepted. This field can contain one of the following values: ■true ■false	String (5)
ship_to_address_city	City of shipping address.	String (50)
ship_to_address_country	Country code for the shipping address. Use the two-character ISO country codes.	String (2)
ship_to_address_line1	First line of shipping address.	String (60)
ship_to_address_line2	Second line of shipping address.	String (60)
ship_to_address_postal_code	Postal code for the shipping address.	String (10)
ship_to_address_state	State or province of shipping address. Use the two-character ISO state and province codes.	String (2)
ship_to_company_name	Name of the company receiving the product.	String (40)
ship_to_forename	First name of the person receiving the product.	String (60)
ship_to_phone	Phone number of the shipping address.	String (15)
ship_to_surname	Last name of the person receiving the product.	String (60)
shipping_method	Shipping method for the product. Possible values: ● <b>sameday</b> : Courier or same-day service ● <b>oneday</b> : Next day or overnight service ● <b>twoday</b> : Two-day service ● <b>threeday</b> : Three-day service ● <b>lowcost</b> : Lowest-cost service ● <b>pickup</b> : Store pick-up ● <b>other</b> : Other shipping method ● <b>none</b> : No shipping method because	String (10)
skip_decision_manager	Indicates whether to skip Decision Manager when creating a subscription. This field can contain one of the following values: ■ true ■ false	String (5)

Field Name	Description	Data Type & Length
tax_amount	Total tax amount to apply to the order. This value cannot be negative.  <b>Important</b> To prevent data tampering CyberSource recommends signing this field. See "signed_field_names,"	String (15)

## API Reply Fields



If configured, these API reply fields are sent back to your Merchant POST URL or email. See "Configuring Merchant Notifications." Because CyberSource may add reply fields and reason codes at any time, proceed as follows:

- You should parse the reply data according to the names of the fields instead of their order in the reply. For more information on parsing reply fields, see the documentation for your scripting language.
- Your error handler should use the **decision** field to determine the result if it receives a reason code that it does not recognize.

API Reply Fields Field Name	Description	Data Type and Length
auth_amount	Amount that was authorized.	String (15)
auth_avs_code	AVS result code. See "AVS Codes."	String (1)
auth_avs_code_raw	AVS result code sent directly from the processor. Returned only if a value is returned by the processor.	String (10)
auth_cv_result	CVN result code. See "CVN Codes."	String (1)
auth_cv_result_raw	CVN result code sent directly from the processor. Returned only if a value is returned by the processor.	String (10)
auth_response	For most processors, this is the error message sent directly from the bank. Returned only if a value is returned by the processor.	String (10)
auth_time	Time of authorization in UTC.	String (20)
auth_trans_ref_no	Reference number that you use to reconcile your CyberSource reports with your processor reports.	String (60)
bill_trans_ref_no	Reference number that you use to reconcile your CyberSource reports with your processor reports.	String (60)
decision	The result of your request. Possible values: <ul style="list-style-type: none"> <li>■ACCEPT</li> <li>■REJECT</li> <li>■REVIEW</li> <li>■ERROR</li> </ul> See " <a href="#">Reason Codes.</a> "	String (7)

API Reply Fields Field Name	Description	Data Type and Length
invalid_fields	Indicates which request fields were invalid.	Variable
message	Reply message from the payment gateway.	String (255)
payer_authentication_cavv	Cardholder authentication verification value (CAVV). Transaction identifier generated by the issuing bank. This field is used by the payer authentication validation service.	String (50)
payer_authentication_eci	Electronic commerce indicator (ECI). Numeric indicator returned only for Verified by Visa transactions. This field is used by payer authentication validation and enrollment services. Possible values:  Enrollment Service: <ul style="list-style-type: none"> <li>■06: Card can be enrolled. You are protected.</li> <li>■07: Card cannot be enrolled. You are not protected.</li> </ul> Validation Service: <ul style="list-style-type: none"> <li>■00: Failed authentication</li> <li>■05: Successful authentication.</li> <li>■06: Authentication attempted.</li> <li>■07: Failed authentication.</li> </ul>	String (3)
payer_authentication_proof_xml	XML element containing proof of enrollment checking. For cards not issued in the U.S. or Canada, your bank may require this data as proof of enrollment checking for any payer authentication transaction that you re-present because of a chargeback.  For cards issued in the U.S. or Canada, Visa may require this data for specific merchant category codes.	String (1024)
payer_authentication_uad	MasterCard SecureCode UCAF authentication data. Returned only for MasterCard SecureCode transactions.	String (32)
payer_authentication_xid	Transaction identifier generated by CyberSource Payer Authentication. Used to match an outgoing PA request with an incoming PA response.	String (28)
reason_code	Numeric value corresponding to the result of the credit card authorization request.  See "Reason Codes."	String (5)
req_access_key	Authenticates the merchant with the application.	String (32)
req_amount	Total amount for the order. Must be greater than or equal to zero.	String (15)
req_bill_to_address_city	City in the billing address.	String (50)
req_bill_to_address_country	Country code for the billing address. Use the two-character ISO country codes.	String (2)
req_bill_to_address_line1	First line of the street address in the billing address.	String (60)
req_bill_to_address_line2	Second line of the street address in the billing address.	String (60)

API Reply Fields Field Name	Description	Data Type and Length
req_bill_to_address_postal_code	Postal code for the billing address.	String (10)
req_bill_to_address_state	State or province in the billing address. The two-character <a href="#">ISO state and province code</a> .	String (2)
req_bill_to_company_name	Name of the customer's company.	String (40)
req_bill_to_email	Customer's email address.	String (255)
req_bill_to_forename	Customer's first name.	String (60)
req_bill_to_phone	Customer's phone number.	String (15)
req_bill_to_surname	Customer's last name.	String (60)
req_card_cvn	Card verification number.	String (4)
req_card_expiry_date	Card expiration date.	String (7)
req_card_number	Card number.	String (20)
req_card_type	Type of card.	String (3)
req_consumer_id	Identifier for the customer account. This value is defined when creating a customer subscription.	String (50)
req_complete_route	Concatenation of individual travel legs in the format: SFO-JFK:JFK-LHR:LHR-CDG. For a complete list of airport codes, see IATA's City Code Directory. <b>Note</b> In your request, send either the complete route field or the individual legs ( <b>journey_leg#_orig</b> and <b>journey_leg#_dest</b> ). If you send all the fields, the value of <b>complete_route</b> takes precedence over that of the <b>journey_leg#</b> fields.	String (255)
req_currency	Currency used for the order. See ISO currency codes.	String (5)
req_customer_cookies_accepted	Indicates whether the customer's browser accepts cookies. This field can contain one of the following values: ■true: customer's browser accepts cookies. ■false: customer's browser does not accept cookies	String (5)
req_customer_gift_wrap	Indicates whether the customer requested gift wrapping for this purchase. This field can contain one of the following values: ■true: customer requested gift wrapping. ■false: customer did not request gift wrapping.	String (5)
req_customer_ip_address	Customer's IP address reported by your web server using socket information.	
req_date_of_birth	Date of birth of the customer. Use the format: YYYYMMDD.	String (8)

API Reply Fields Field Name	Description	Data Type and Length
req_departure_time	Departure date and time of the first leg of the trip. Use one of the following formats: ■ yyyy-MM-dd HH:mm z ■ yyyy-MM-dd hh:mm a z ■ yyyy-MM-dd hh:mmz HH = 24-hour format hh = 12-hour format a = am or pm (case insensitive) z = time zone of the departing flight, for example: If the airline is based in city A, but the flight departs from city B, z is the time zone of city B at the time of departure.	String (25)
req_device_fingerprint_id	Field that contains the session ID for the fingerprint. The string can contain uppercase and lowercase letters, digits, and these special characters: hyphen (-) and underscore (_) However, do not use the same uppercase and lowercase letters to indicate different session IDs. The session ID must be unique for each merchant ID. You can use any string that you are already generating, such as an order number or web session ID.	String (88)
req_ignore_avs	Ignore the results of AVS verification. Possible values: ■ true                      ■ false	String (5)
req_ignore_cvn	Ignore the results of CVN verification. Possible values: ■ true                      ■ false	String (5)
req_item_#_code	Type of product. # is the range of 0-49.	
req_item_#_name	Name of the item. # can range from 0 - 49.	String (255)
req_item_#_quantity	Quantity of line items. # can range from 0 - 49.	String (10)
req_item_#_sku	Identification code for the product. # can range from 0 - 49.	String (255)
req_item_#_tax_amount	Tax amount to apply to the line item. # can range from 0 - 49. This value cannot be negative. The tax amount and the offer amount must be in the same currency.	String (15)
req_item_#_unit_price	Price of the line item. # can range from 1 - 49. This value cannot be negative.	String (15)
req_journey_leg#_dest	Airport code for the origin of the leg of the trip designated by the pound (#) symbol in the field name. A maximum of 30 legs can be included in the request. This code is usually three digits long, for example: SFO = San Francisco. Do not use the colon (:) or the hyphen (-). For a complete list of airport codes, see IATA's City Code Directory. In your request, send either the <b>complete_route</b> field or the individual legs ( <b>journey_leg#_orig</b> and	String (3)

API Reply Fields Field Name	Description	Data Type and Length
	<b>journey_leg#_dest</b> ). If you send all the fields, the complete route takes precedence over the individual legs.	
req_journey_leg#_orig	Airport code for the origin of the leg of the trip designated by the pound (#) symbol in the field name. A maximum of 30 legs can be included in the request. This code is usually three digits long, for example: SFO = San Francisco. Do not use the colon (:) or the hyphen (-). For a complete list of airport codes, see IATA's City Code Directory.  In your request, send the <b>complete_route</b> field or the individual legs ( <b>journey_leg#_orig</b> and <b>journey_leg#_dest</b> ). If you send all the fields, the complete route takes precedence over the individual legs.	String (3)
req_journey_type	Type of travel, such as: one way or round trip.	String (32)
req_line_item_count	Total number of line items. Maximum amount is 50.	String (2)
req_locale	Indicates the language to use for customer content. See "Activating a Profile."	String (5)
req_merchant_defined_data#	Optional fields that you can use to store information. # is in the range of 1 - 100.  <b>Important</b> Merchant-defined data fields are not intended to and MUST NOT be used to capture personally identifying information. Accordingly, merchants are prohibited from capturing, obtaining, and/or transmitting any personally identifying information in or via the merchant-defined data fields. Personally identifying information includes, but is not limited to, card number, bank account number, social security number, driver's license number, state-issued identification number, passport number, and card verification numbers (CVV, CVC2, CVV2, CID, CVN). In the event CyberSource discovers that a merchant is capturing and/or transmitting personally identifying information via the merchant-defined data fields, whether or not intentionally, CyberSource WILL immediately suspend the merchant's account, which will result in a rejection of any and all transaction requests submitted by the merchant after the point of suspension.	String (100)
req_merchant_secure_data1 req_merchant_secure_data2 req_merchant_secure_data3	Optional fields that you can use to store information. CyberSource encrypts the data before storing it in the database.	String (100)
req_merchant_secure_data4	Optional field that you can use to store information. CyberSource encrypts the data before storing it in the database.	String (2000)
req_override_custom_receipt_page	Overrides the custom receipt profile setting with your own URL.	String (255)
req_payment_method	Method of payment: card.	String (30)



API Reply Fields Field Name	Description	Data Type and Length
req_payment_token	Identifier for the payment details. The payment token retrieves the card data, billing information, and shipping information from the CyberSource database. When this field is included in the request, the card data and billing and shipping information are optional. <b>Important</b> You must be currently using CyberSource Payment Tokenization services. Populate this field with the customer subscription ID.	String (26)
req_payment_token_comments	Optional comments about the customer subscription.	String (255)
req_payment_token_title	Name of the customer subscription.	String (60)
req_profile_id	Identifies the profile to use with each transaction.	String (7)
req_recurring_amount	Payment amount for each installment or recurring subscription payment.	String (15)
req_recurring_frequency	Frequency of payments for an installment or recurring subscription.	String (20)
req_recurring_number_of_installments	Total number of payments set up for an installment subscription. # can range from 1-156.	String (3)
req_recurring_start_date	First payment date for an installment or recurring subscription payment. Date must use the format YYYYMMDD. If a date in the past is supplied the start date will default to the day after the date was entered.	String (8)
req_reference_number	Unique merchant-generated order reference or tracking number for each transaction.	String (60)
req_returns_accepted	Indicates whether product returns are accepted. This field can contain one of the following values: ■true ■false	String (5)
req_ship_to_address_city	City of shipping address.	String (50)
req_ship_to_address_country	The two-character country code.	String (2)
req_ship_to_address_line1	First line of shipping address.	String (60)
req_ship_to_address_line2	Second line of shipping address.	String (60)
req_ship_to_address_postal_code	Postal code for the shipping address.	String (10)
req_ship_to_address_state	The two-character ISO state and province code.	String (2)
req_ship_to_company_name	Name of the company receiving the product.	String (40)
req_ship_to_forename	First name of person receiving the product.	String (60)
req_ship_to_phone	Phone number for the shipping address.	String (15)
req_ship_to_surname	Last name of person receiving the product.	String (60)

API Reply Fields Field Name	Description	Data Type and Length
req_shipping_method	Shipping method for the product. Possible values: <ul style="list-style-type: none"> <li>■sameday: Courier or same-day service</li> <li>■oneday: Next day or overnight service</li> <li>■twoday: Two-day service</li> <li>■threeday: Three-day service</li> <li>■lowcost: Lowest-cost service</li> <li>■pickup: Store pick-up</li> <li>■other: Other shipping method</li> <li>■none: No shipping method</li> </ul>	String (10)
req_skip_decision_manager	Indicates whether to skip decision manager when creating a subscription. This field can contain one of the following values: <ul style="list-style-type: none"> <li>■true</li> <li>■false</li> </ul>	String (5)
req_tax_amount	Total tax to apply to the product.	String (15)
req_transaction_type	The type of transaction requested: <ul style="list-style-type: none"> <li>■authorization</li> <li>■sale</li> <li>■authorization, create_payment_token</li> </ul>	String (60)
req_transaction_uuid	Unique merchant-generated identifier. Include with theaccess_key field for each transaction.	String (50)
required_fields	Indicates which of the request fields were required but not provided.	Variable
signature	The Base64 signature returned by the server.	String (44)
signed_date_time	The date and time of when the signature was generated by the server. UTC date and time format: 2011-12-31T11:59:59Z	String (20)
signed_field_names	A comma-separated list of response data that was signed by the server. All fields within this list should be used to generate a signature that can then be compared to the response signature to verify the response.	Variable
transaction_id	The transaction identifier returned from the payment gateway.	String (26)

## Reason Codes

The **reasonCode** field contains additional data regarding the decision response of the transaction. Depending on the decision of a transaction request, the CyberSource's default receipt page or your receipt page is displayed to the customer. Both you and your customer may also receive an email receipt. See "Configuring Notifications."

Decision	Reason Code
ACCEPT	100, 110
REVIEW	200, 201, 230, 520
REJECT	102, 200, 202, 203, 204, 205, 207, 208, 210, 211, 221, 222, 230, 231, 232, 233, 234, 236, 240, 475, 476
ERROR	150, 151, 152, 250

Reason Code	Description
100	Successful transaction.
102	One or more fields in the request are missing or invalid. Possible action: See the reply fields InvalidField0...N and MissingField0...N for the invalid or missing fields. Resend the request with the correct information. Important In the other API services, this reason code is split between 101 (missing fields) and 102 (invalid fields).
110	Authorization was partially approved.
150	Error: General system failure. Possible action: Wait a few minutes and resend the request.
151	Error: The request was received, but a server time-out occurred. This error does not include time-outs between the client and the server. Possible action: To avoid duplicating the order, do not resend the request until you have reviewed the order status in the Business Center.
152	Error: The request was received, but a service did not finish running in time. Possible action: To avoid duplicating the order, do not resend the request until you have reviewed the order status in the Business Center.
200	The authorization request was approved by the issuing bank but declined by CyberSource because it did not pass the Address Verification Service (AVS) check. Possible action: You can capture the authorization, but consider reviewing the order for possible fraud.
201	The issuing bank has questions about the request. You cannot receive an authorization code in the API reply, but you may receive one verbally by calling the processor. Possible action: Call your processor or the issuing bank to obtain a verbal authorization code. For contact phone numbers, refer to your merchant bank information.

Reason Code	Description
202	The card is expired. Possible action: Request a different card or other form of payment.
203	The card was declined. No other information was provided by the issuing bank. Possible action: Request a different card or other form of payment.
204	The account has insufficient funds. Possible action: Request a different card or other form of payment.
205	The card was stolen or lost. Possible action: Review the customer's information to determine if you want to request a different card from the customer.
207	The issuing bank was unavailable. Possible action: Wait a few minutes and resend the request.
208	The card is inactive or not authorized for card-not-present transactions. Possible action: Request a different card or other form of payment.
210	The credit limit for the card has been reached. Possible action: Request a different card or other form of payment.
211	The card verification number is invalid. Possible action: Request a different card or other form of payment.
221	The customer matched an entry on the processor's negative file. Possible action: Review the order and contact the payment processor.
222	The customer's bank account is frozen. Possible action: Review the order or request a different form of payment.
230	The authorization request was approved by the issuing bank but declined by CyberSource because it did not pass the card verification number check.
231	The account number is invalid. Possible action: Request a different card or other form of payment.
232	The card type is not accepted by the payment processor. Possible action: Request a different card or other form of payment, and/or check with CyberSource Customer Support to make sure that your account is configured correctly.
233	The processor declined the request based on an issue with the request itself. Possible action: Request a different form of payment.
234	There is a problem with your CyberSource merchant configuration. Possible action: Do not resend the request. Contact Customer Support to correct the configuration problem.
236	A processor failure occurred. Possible action: Wait a few minutes and resend the request.

Reason Code	Description
240	<p>The card type sent is invalid or does not correlate with the credit card number.</p> <p>Possible action: Ask your customer to verify that the card is really the type indicated in your Web store, and resend the request.</p>
250	<p>Error: The request was received, but a time-out occurred with the payment processor.</p> <p>Possible action: To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status in the Business Center.</p>
475	<p>The customer is enrolled in payer authentication.</p> <p>Possible action: Authenticate the cardholder before continuing with the transaction.</p>
476	<p>The customer cannot be authenticated.</p> <p>Possible action: Review the customer's order.</p>
520	<p>The authorization request was approved by the issuing bank but declined by CyberSource based on your Smart Authorization settings.</p> <p>Possible action: Do not capture the authorization without further review. Review the ccAuthReply_avsCode, ccAuthReply_cvCode, and ccAuthReply_authFactorCode fields to determine why CyberSource rejected the request.</p>