Methodology Three-Step

Method Overview

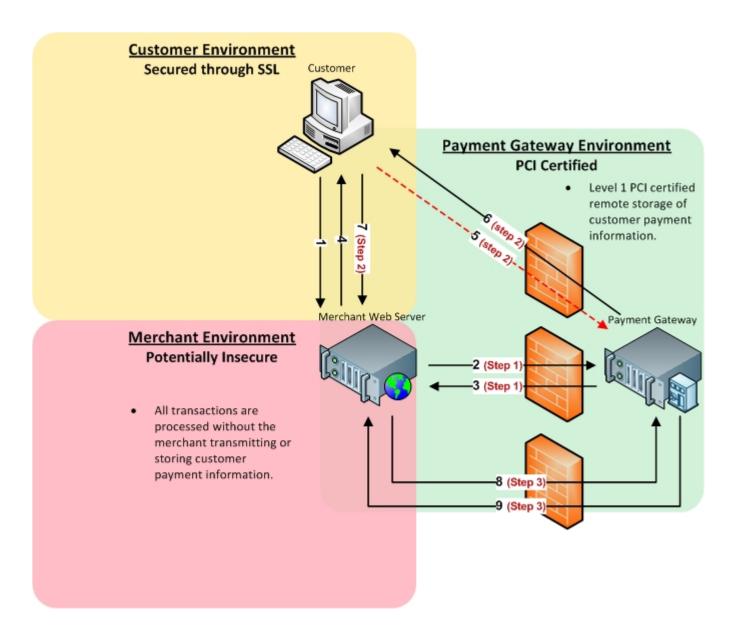
- **Step One:** Submit all transaction details to the Payment Gateway except the customer's sensitive payment information. The Payment Gateway will return a variable **form-url**.
- **Step Two:** Create an HTML form that collects the customer's sensitive payment information and use the **form-url** that the Payment Gateway returns as the submit action in that form.
- **Step Three:** Once the customer has been redirected, obtain the **token-id** and complete the transaction through an HTTPS POST including the **token-id** which abstracts the sensitive payment information that was collected directly by the Payment Gateway.

Detailed Explanation

To start step one, your payment application will submit a behind-the-scenes HTTPS direct POST that includes transaction variables, including an additional variable **redirect-url**, which is a URL that must exist on your web server that handles a future browser redirect. Sensitive payment information such as **cc-number**, **cc-exp**, and **cvv** cannot be submitted during step one. The Payment Gateway will generate and return the form-url variable containing a unique URL to be used in Step 2.

Next, during step two, you must develop an HTML form that collects at least the customer's sensitive payment information such as **cc-number**, **cc-exp**, and **cvv**. You must use the **form-url** obtained in step one as the action in the HTML of your payment form. When the customer submits the form, the customer's browser will transparently POST the contents of the payment form directly to the Payment Gateway. This methodology keeps your web server and payment application from seeing or transmitting any credit card data or other sensitive data. Once the Payment Gateway has collected the customer's sensitive payment details, the customer's browser will be instructed to return to the **redirect-url** on your web server. Furthermore, the Payment Gateway will generate and append a unique variable named **token-id** to the **redirect-url** in the GET query string. This **token-id** is an abstraction of the customer's sensitive payment information that the Payment Gateway collected. Your **redirect-url** script must parse the **token-id** for use in step three.

To complete the transaction, you will submit another behind-the-scenes HTTPS direct POST including only the **token-id** and **api-key**. This **token-id** is used to "tie" together the initial customer information with the sensitive payment information that the payment gateway collected directly.



Step One Three-Step: Transactions

Sale/Auth/Credit/Validate/Offline XML Request

XML Element	Description
<sale auth credit validate offline></sale auth credit validate offline>	Type of transaction to perform.
api-key*	api-key is obtained in the security keys section of the control panel settings.
redirect-url*	A URL on your web server that the gateway will redirect your customer to after sensitive data collection.
amount*	Total amount to be charged (For "validate" actions, amount must be 0.00 or omitted).
authorization-code**	Specify authorization code. For use with "offline" action only.

ip-address Cardholder's IP address.

billing-number

sec-code

customer-receipt

Format: xxx.xxx.xxx.xxx

industry Specify industry classification of transaction.

Values: 'ecommerce', 'moto', or 'retail'

billing-method Set additional billing indicators.

Values: 'recurring' or 'installment'

Specify installment billing number, on supported processors. For

use when "billing-method" is set to installment.

Values: 0-99

billing-total Specify installment billing total on supported processors. For use

when "billing-method" is set to installment.

processor-id If using multiple processors, route to specified processor. Obtained

under Settings->Load Balancing in the merchant control panel.

ACH standard entry class codes.

Values: 'PPD', 'WEB', 'TEL', 'CCD', 'POP', or 'ARC'

descriptor Set payment descriptor on supported processors.

descriptor-phone Set payment descriptor phone on supported processors.

descriptor-address Set payment descriptor address on supported processors.

descriptor-city Set payment descriptor city on supported processors.

descriptor-state Set payment descriptor state on supported processors.

descriptor-postal Set payment descriptor postal code on supported processors.

descriptor-country

Set payment descriptor country on supported processors.

descriptor-mcc

Set payment descriptor mcc on supported processors.

descriptor-merchant-id Set payment descriptor merchant id on supported processors.

descriptor-url Set payment descriptor url on supported processors.

Set transaction currency.

Format: ISO 4217

order-description Order description.

customer-id Customer identification.

customer-vault-id Load customer details from an existing customer vault record. If set,

no payment information is required during step two.

merchant-receipt-email Send merchant receipt to email

Send receipt if billing email included.

Values: 'true' or 'false'

Merchant specified custom fields.

merchant-defined-field-# Format: <merchant-defined-field-1>Value</merchant-defined-field-

1>

tracking-number Shipping tracking number.

Shipping carrier.

shipping-carrier Values: 'ups', 'fedex', 'dhl', or 'usps'

order-id*** Order id.

po-number*** Cardholder's purchase order number.

The sales tax included in the transaction amount associated with the purchase. Setting tax equal to '-1' indicates an order that is exempt

> from sales tax. Default: '0.00' Format: x.xx

shipping-amount*** Total shipping amount.

Postal/ZIP code of the address from where purchased goods are ship-from-postal****

being shipped. Defaults to merchant profile postal code.

A code representing the type of commodity being purchased. The

acquirer or processor will provide a list of current codes.

Amount included in the transaction amount associated with the

import of the purchased goods.

Default: '0.00'

Amount included in the transaction amount of any discount applied

to the complete order by the merchant.

Default: '0.00'

The national tax amount included in the transaction amount.

Default: '0.00'

Second tax amount included in the transaction amount in countries where more than one type of tax can be applied to the purchases. alternate-tax-amount

Default: '0.00'

Tax identification number of the merchant that reported the alternate-tax-id

alternate tax amount.

Contains the amount of any value added taxes which can be

associated with the purchased item.

Default: '0.00'

Contains the tax rate used to calculate the sales tax amount appearing. Can contain up to 2 decimal places, ie 1% = 1.00.

Default: '0.00'

vat-invoice-reference-number Invoice number that is associated with the VAT invoice.

customer-vat-registration Value added tax registration number supplied by the cardholder.

Government assigned tax identification number of the merchant

from whom the goods or services were purchased.

Purchase order date. Defaults to the date of the transaction.

Format: YYMMDD

Set 3D Secure condition.

Values: 'verified' or 'attempted'

E-commerce indicator.

Values: '2', '5', or '7'

Cardholder authentication verification value.

Format: base64 encoded

Cardholder authentication transaction id.

Format: base64 encoded

Override duplicate transaction detection time in seconds.

tax-amount***

summary-commodity-code****

duty-amount

discount-amount

national-tax-amount

vat-tax-amount

vat-tax-rate

merchant-vat-registration

order-date

cardholder-auth†

eci†

cavv†

xid†

dup-seconds‡

The transaction is rejected if the address verification result is a code in this list. Values are letters obtained under Settings->Address

Verification in the control panel.

Format: x|x|x|x...

The transaction is rejected if the card ID verification result is a code in this list. Values are letters obtained under Settings->Card ID

Verification in the control panel.

Format: x|x|x|x...

 The customer's billing information

billing-id Specify billing id. Recommended when using customer vault hybrid

action. Will be ignored if no hybrid add/update-customer is done.

first-name Cardholder's first name. last-name Cardholder's last name.

address1 Cardholder's billing address.

city Card billing city.

state Card billing state/province.

Format: CC

postal Card billing postal code.

country Card billing country code.

phone Billing phone number.

Billing a gracil address

email Billing email address.

company Cardholder's company.

address2 Card billing address, line 2.

fax Billing fax number.

account-type§

The customer's ACH account type.

Values: 'checking' or 'savings'

entity-type§

The customer's ACH account entity.

Values: 'personal' or 'business'

</billing>

state

country****

avs-reject‡

cvv-reject‡

<shipping> The customer's shipping information.

Specify shipping id. Recommended when using customer vault

shipping-id hybrid action. Will be ignored if no hybrid add/update-customer is

done.

first-name Shipping first name. last-name Shipping last name.

address1 Shipping billing address.

city Shipping city.

Shipping state/province.

Format: CC

postal**** Shipping postal code.

Shipping country code.

Format: CC/ISO 3166
phone Shipping phone number.

Shipping email address. email company Shipping company. address2 Shipping address, line 2. Shipping fax number. fax </shipping> cproduct> Product line item detail. Multiple product elements are allowed. product-code****¶ Merchant defined description code of the item being purchased. description**** Description of the item(s) being supplied. International description code of the individual good or service being supplied. The acquirer or processor will provide a list of commodity-code**** current codes. Code for units of measurement as used in international trade. unit-of-measure**** Default: 'EACH' unit-cost**** Unit cost of item purchased. May contain up to 4 decimal places. Quantity of the item(s) being purchased. quantity**** Default: '1' Purchase amount associated with the item. Default to 'unit-cost' x total-amount**** 'quantity' rounded to the nearest penny. Amount of tax on specific item. Amount should not be included in item-total-amount. tax-amount**** Default: '0.00' Percentage representing the value-added tax applied. 1% = 1.00. tax-rate**** Default: '0.00' Discount amount which can have been applied by the merchant on discount-amount the sale of the specific item. Amount should not be included in 'itemtotal-amount'. Discount rate for the line item. 1% = 1.00. discount-rate Default: '0.00' Type of value-added taxes that are being used. tax-type Tax identification number of the merchant that reported the alternate-tax-id alternate tax amount. </product> Perform a simultaneous 'hybrid' recurring action while processing a <add-subscription> transaction. The first day that the customer will be charged. Format: start-date YYYYMMDD <plan> plan-id The unique plan ID that references only this recurring plan.

The number of payments before the recurring plan is complete. payments

Note: Use '0' for 'until canceled'

The plan amount to be charged each billing cycle.

Format: x.xx

amount

How often, in days, to charge the customer. Cannot be set with day-frequency

'month-frequency' or 'day-of-month'.

How often, in months, to charge the customer. Cannot be set with month-frequency

'day-frequency'. Must be set with 'day-of-month'.

Values: 1 through 24

The day that the customer will be charged. Cannot be set with 'day-

frequency'. Must be set with 'month-frequency'.

Values: 1 through 31 - for months without 29, 30, or 31 days, the

charge will be on the last day

</plan>

day-of-month

</add-subscription>

Perform a simultaneous 'hybrid' customer vault action while processing a transaction. This tag can be blank if submitting an 'add-<add-customer|update-customer>

customer' without specifying a 'customer-vault-id'.

Specify customer vault id. If omitted, will be auto-generated and customer-vault-id

returned in response. Required for 'update-customer'.

</add-customer|update-customer>

Specify whether a partial amount or full amount of the transaction

should be settled.

Format: 'settle_partial' or 'payment_in_full'

Specify a partial payment ID. Required to collect an additional amount associated with an existing Partial Payment Transaction. Do

not use on initial transaction.

partial-payments††

partial-payment-id††

</sale|auth|credit|validate|offline>

Always required

** Required for offline transactions

Required for Level 2 and Level 3 transactions

**** Required for Level 3 transactions

Required for 3D-Secure transactions

‡ Required for Override transactions

†† Required for Partial Payment Transactions

§ Required for ACH transactions

Required for Line Item Reporting

Sale/Auth/Credit/Validate/Offline XML Response

XML Element Description

<response>

1=Approved

2=Declined result

3=Error in transaction data or system error

result-text Textual response.

transaction-id Payment Gateway transaction id.

result-code Numeric mapping of processor responses (See Appendix 3).

form-url URL used as the action of the HTML form in step two.

billing-first-name

billing-last-name

billing-address1

Step Two Three-Step: Transactions

HTML Form Fields Request

	1
HTML Form Fields	Description
billing-cc-number*	Credit card number.
billing-cc-exp*	Credit card expiration. Format: MMYY
billing-cvv	Card security code.
billing-account-name**	The name on the customer's ACH Account.
billing-account-number**	The customer's bank account number.
billing-routing-number**	The customer's bank routing number.
billing-account-type	The customer's ACH account type. Values: 'checking' or 'savings'
billing-entity-type	The customer's ACH account entity. Values: 'personal' or 'business'
billing-micr†	Physical check's Magnetic ink strip, on supported check processors. For use with 'POP' or 'ARC' sec-code.
billing-track-1***	Raw magnetic stripe data, track 1.
billing-track-2***	Raw magnetic stripe data, track 2.
billing-track-3***	Raw magnetic stripe data, track 3.
billing-magnesafe-track-1***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-track-2***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-track-3***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-ksn***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-magneprint***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-magneprint- status***	Raw MagTek Magensa encrypted reader data.
billing-social-security-number ****	Customer's social security number, checked against bad check writers database if check verification is enabled.
billing-drivers-license-number ****	Driver's license number, checked against bad check writers' database if check verification is enabled.
billing-drivers-license-dob****	Driver's license date of birth.
billing-drivers-license-state****	Customer's driver's license state. Format: CC

Cardholder's first name. Overwrites value if passed during step one.

Cardholder's last name. Overwrites value if passed during step one..

Cardholder's billing address. Overwrites value if passed during step one.

billing-city Card billing city. Overwrites value if passed during step one.

Card billing state/province. Overwrites value if passed during step one.

Format: CC

billing-postal Card billing postal code. Overwrites value if passed during step one.

Card billing country code. Overwrites value if passed during step one.

Format: CC/ISO 3166

billing-phone Billing phone number. Overwrites value if passed during step one.

billing-email Billing email address. Overwrites value if passed during step one.

billing-company Cardholder's company. Overwrites value if passed during step one.

billing-address2 Card billing address, line 2. Overwrites value if passed during step one.

billing-fax

Billing fax number. Overwrites value if passed during step one.

Shipping-first-name

Shipping last name. Overwrites value if passed during step one.

Shipping-last-name

Shipping-address Overwrites value if passed during step one.

Shipping address. Overwrites value if passed during step one.

shipping-city Shipping city. Overwrites value if passed during step one.

shipping-state Shipping state/province. Overwrites value if passed during step one. shipping-postal Shipping postal code. Overwrites value if passed during step one. Shipping country code. Overwrites value if passed during step one. shipping-country shipping-phone Shipping phone number. Overwrites value if passed during step one. shipping-email Shipping email address. Overwrites value if passed during step one. shipping-company Shipping company. Overwrites value if passed during step one. shipping-address2 Shipping address, line 2. Overwrites value if passed during step one. shipping-fax Shipping fax number. Overwrites value if passed during step one.

* Required for keyed credit card transactions.

** Required for ACH transactions.

billing-state

billing-country

*** Used for retail transactions. Variables used dependent on swipe device.

**** Required for check verification.

† Required for check scanning.

HTML Form Fields Response

Once the Payment Gateway has collected the customer's sensitive payment details, the customer's browser will immediately be redirected back to the **redirect-url** on your web server. A variable named **token-id** will be appended to the **redirect-url** in the GET query string as described below:

https://redirect-url/?token-id=[token]

Step Three Three-Step: Transactions

Complete Transaction XML Request

XML Element

Description

<complete-action>

api-key* api-key is obtained in the security keys section of the control panel settings.

token-id* Customer payment token returned during step two.

</complete-action>

* Required

Complete Transaction XML Response

XML Element Description

<response>

action-type

1=Transaction Approved

result 2=Transaction Declined

3=Error in transaction data or system error

result-text Textual response.

transaction-id Payment Gateway transaction ID

result-code Numeric mapping of processor responses. (See Appendix 3)

authorization-code Transaction authorization code.

avs-result AVS response code. (See Appendix 1) cvv-result CVV response code. (See Appendix 2)

Action type that was initially specified.

Values: 'sale', 'auth', 'credit', 'validate', or 'offline'

Total amount charged.

amount Formati v vv

Format: x.xx

amount-authorized Returns the amount authorized.

Format: x.xx

ip-address Cardholder's IP address.

Format: xxx.xxx.xxx.xxx

industry Industry classification of transaction.

Values: 'ecommerce', 'moto', or 'retail'

Billing indicators used.

billing-method Values: 'recurring' or 'installment'

processor-id Processor transaction was made through.

ACH standard entry class codes.

sec-code Values: 'PPD', 'WEB', 'TEL', 'CCD', 'POP', or \ARC'

descriptor Payment descriptor.

descriptor-phone Payment descriptor phone.

descriptor-address
descriptor-city
descriptor-state

Set payment descriptor address on supported processors.

Set payment descriptor city on supported processors.

Set payment descriptor state on supported processors.

descriptor-postal Set payment descriptor postal code on supported processors.

descriptor-country Set payment descriptor country on supported processors.

descriptor-mcc Set payment descriptor mcc on supported processors.

descriptor-merchant-id Set payment descriptor merchant id on supported processors.

descriptor-url Set payment descriptor url on supported processors.

currency Transaction currency used. (Table 1.b)

order-description Order description.

customer-id Customer identification.

customer-vault-id Customer vault id used or created during action.

merchant-receipt-email Merchant receipt email.

Customer email receipt sent.

Values: 'true' or 'false'

partial-payment-balance Returns the payment's remaining balance.

partial-payment-id Numeric identifier used to submit subsequent partial payment transactions.

merchant-defined-field- Merchant specified custom fields.

Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

tracking-number Shipping tracking number.

shipping-carrier Shipping carrier.

Values: 'ups', 'fedex', 'dhl', or 'usps'

order-id Order id.

po-number Cardholder's purchase order number.

The sales tax included in the transaction amount associated with the purchase.

Format: x.xx

shipping-amount Total shipping amount.

Format: x.xx

ship-from-postal Postal/ZIP code of the address from where purchased goods are being shipped.

summary-commodity-

customer-receipt

code processor will provide a list of current codes.

processor with provide a list of contain course.

Amount included in the transaction amount associated with the import of the

duty-amount purchased goods.

Format: x.xx

Amount included in the transaction amount of any discount applied to the complete

A code representing the type of commodity being purchased. The acquirer or

discount-amount order by the merchant.

Format: x.xx

national-tax-amount — The national tax amount included in the transaction amount.

Format: x.xx

Second tax amount included in the transaction amount in countries where more than

one type of tax can be applied to the purchases.

alternate-tax-amount Default: '0.00'

Format: x.xx

alternate-tax-id Tax identification number of the merchant that reported the alternate tax amount.

Contains the amount of any value added taxes which can be associated with the

vat-tax-amount purchased item.

Format: x.xx

Contains the tax rate used to calculate the sales tax amount appearing. Can contain up

to 2 decimal places, ie 1% = 1.00.

Format: x.xx

vat-invoice-reference-

number

Invoice number that is associated with the VAT invoice.

customer-vat-

registration

vat-tax-rate

Value added tax registration number supplied by the cardholder.

merchant-vatregistration Government assigned tax identification number of the merchant from whom the goods

or services were purchased.

order-date Purchase order date.

Format: YYMMDD

3D Secure condition.

cardholder-auth

Values: 'verified' or 'attempted'

eci

country

E-commerce indicator. Values: '2', '5', or '7'

varies. 2, 3, or 7

cavy Cardholder authentication verification value.

Format: base64 encoded

xid Cardholder authentication transaction id.

Format: base64 encoded

dup-seconds Override duplicate transaction detection checking in seconds.

avs-reject Values are letters obtained under Settings->Address Verification in the control panel. cvv-reject Values are letters obtained under Settings->Card ID Verification in the control panel.

 The customer's billing information

billing-id Billing id used or created for this action.

first-name Cardholder's first name.
last-name Cardholder's last name.
address1 Cardholder's billing address.

city Card billing city.

Card billing state/province.

state Format: CC

postal Card billing postal code.

Card billing country code.

Format: CC/ISO 3166

phone Billing phone number.
email Billing email address.
company Cardholder's company.
address2 Card billing address, line 2.

fax Billing fax number.

social-security-number Customer's social security number

drivers-license-number Driver's license number.

drivers-license-dob Driver's license date of birth.

Customer's driver's license state.

drivers-license-state
Format: CC

Masked credit card number. cc-number

Format: XXXXXX******XXXX

Credit card expiration

cc-exp Format: MMYY

The name on the customer's bank account. account-name

Masked bank account number. account-number

Format: X****XXXX

Masked bank routing number.

Format: X****XXXX

The customer's ACH account type. account-type

Values: 'checking' or 'savings'

The customer's ACH account entity. entity-type

Values: 'personal' or 'business'

Billing id priority.

priority Format: Numeric, 1-255

</billing>

routing-number

<shipping> The customer's shipping information.

Shipping id used or created for this action. Recommended when using customer vault shipping-id

hybrid action; will be ignored if no hybrid add/update-customer is done.

first-name Shipping first name. Shipping last name. last-name

Shipping billing address. address1

city Shipping city.

Shipping state/province. state

Format: CC

postal Shipping postal code.

Shipping country code.

Format: CC/ISO 3166

phone Shipping phone number. email Shipping email address.

Shipping company. company

address2 Shipping address, line 2. fax Shipping fax number.

Shipping id priority.

priority Format: Numeric, 1-255

</shipping>

country

cproduct> Product line item detail. Multiple product elements are allowed. product-code Merchant defined description code of the item being purchased.

description Description of the item(s) being supplied.

International description code of the individual good or service being supplied. The commodity-code

acquirer or processor will provide a list of current codes.

Code for unites of measurement as used in international trade. unit-of-measure

Unit cost of item purchased. May contain up to 4 decimal places. unit-cost

quantity Quantity of the item(s) being purchased.

Purchase amount associated with the item.

Format: x.xx

Amount of tax on specific item. Amount should not be included in item-total-amount. tax-amount

Format: x.xx

Percentage representing the value-added tax applied. 1% = 1.00. tax-rate

Format: x.xx

Discount amount which can have been applied by the merchant on the sale of the

specific item. discount-amount

Format: x.xx

Discount rate for the line item. 1% = 1.00discount-rate

Format: x.xx

Type of value-added taxes that are being used. tax-type

alternate-tax-id Tax identification number of the merchant that reported the alternate tax amount.

</product> </response>

total-amount

Additional Operations Three-Step: Transactions

Capture XML Request

Element Description

<capture>

api-key* api-key is obtained in the security keys section of the control panel settings.

transaction-id* Original Payment Gateway transaction id.

Total amount to be settled, this amount may be equal to or less than the amount

authorized amount.

Merchant specified custom fields. merchant-defined-field-#

Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

tracking-number Shipping tracking number.

Shipping carrier used. shipping-carrier

Values: 'ups', 'fedex', 'dhl', or 'usps'

Order ID. order-id

</capture>

* Required

Void XML Request

Element **Description**

<void>

api-key is obtained in the security keys section of the control panel settings. api-key*

transaction-id* Original Payment Gateway transaction id.

Merchant specified custom fields.

merchant-defined-field-# Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

</void>

* Required

Refund XML Request

Element Description

<refund>

api-key* api-key is obtained in the security keys section of the control panel settings.

transaction-id* Original Payment Gateway transaction id.

Total amount to be settled, this amount may be equal to or less than the amount

authorized amount.

Merchant specified custom fields. merchant-defined-field-#

Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

</refund>

* Required

Update XML Request

Element Description

<update>

api-key* api-key is obtained in the security keys section of the control panel settings.

transaction-id* Original Payment Gateway transaction id.

merchant-defined-field-# Merchant specified custom fields. Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

tracking-number Shipping tracking number.

Shipping carrier used. shipping-carrier

Values: 'ups', 'fedex', 'dhl', or 'usps'

order-id Order ID.

</update>

* Required

Complete Partial Payment XML Request

Element Description

<complete-partial-payment>

api-key* api-key is obtained in the security keys section of the control panel settings.

partial-payment-id Specify a partial payment ID. Required to collect an additional amount associated with an

existing Partial Payment Transaction. Do not use on initial transaction.

</complete-partial-payment>

* Required

Step One

Three-Step: Customer Vault

Add/Update Customer XML Request

XML Element Description

<add-customer|update-

customer>

redirect-url*

Type of transaction to perform.

api-key* api-key is obtained in the security keys section of the control panel settings.

A URL on your web server that the gateway will redirect your customer to after

sensitive data collection. Value is not required for 'update-customer' requests when

sensitive data is not being presented.

Example: Updating an address or zip code only.

customer-vault-id Load customer details from an existing customer vault record. If set, no payment

information is required during step two.

merchant-defined-field-# Merchant specified custom fields.

Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

 The customer's billing information

billing-id Specify billing id. Required for 'update-customer' if multiple billing-ids exist,

optional for 'add-billing'.

first-name Cardholder's first name. last-name Cardholder's last name.

address1 Cardholder's billing address.

city Card billing city.

Card billing state/province.

state Format: CC

postal Card billing postal code.

Card billing country code.

Format: CC/ISO 3166

phone Billing phone number.
email Billing email address.
company Cardholder's company.
address2 Card billing address, line 2.

fax Billing fax number.

The customer's ACH account type.

Values: 'checking' or 'savings'

The customer's ACH account entity.

Values: 'personal' or 'business'

Specify priority (If omitted, will be auto-generated and returned in response).

Format: Numeric, 1-255

</billing>

priority

account-type

entity-type

country

<shipping> The customer's shipping information.

shipping-id Specify shipping id (Required for update-customer if multiple shipping-ids exist.

Optional for add-billing).

first-name Shipping first name.
last-name Shipping last name.
address1 Shipping billing address.

city Shipping city.

state Shipping state/province.

Format: CC

postal Shipping postal code.

Shipping country code. Format: CC/ISO 3166

phone Shipping phone number.
email Shipping email address.
company Shipping company.
address2 Shipping address, line 2.

fax Shipping address, line 2 Shipping fax number.

Specify priority, if omitted, will be auto-generated and returned in response.

priority Format: Numeric, 1-255

</shipping>

country

</add-customer|update-customer>

XML Response

XML Element Description

<response>

1=Approved

result 2=Declined

3=Error in transaction data or system error

result-text Textual response.

result-code Numeric mapping of processor responses. (See Appendix 3)

form-url URL used as the action of the HTML form in step two.

</response>

Step Two

Three-Step: Customer Vault

HTML Form Fields Request

HTML Form Fields

Description

^{*} Required

billing-cc-number* Credit card number.

Credit card expiration.

billing-cc-exp* Format: MMYY

billing-cvv Card security code.

The name on the customer's ACH Account. billing-account-name**

The customer's bank account number. billing-account-number** billing-routing-number** The customer's bank routing number.

The customer's ACH account type. billing-account-type Values: 'checking' or 'savings'

The customer's ACH account entity. billing-entity-type

Values: 'personal' or 'business'

Physical check's Magnetic ink strip, on supported check processors. For use billing-micr†

with 'POP' or 'ARC' sec-code.

billing-track-1*** Raw magnetic stripe data, track 1. billing-track-2*** Raw magnetic stripe data, track 2. billing-track-3*** Raw magnetic stripe data, track 3.

billing-magnesafe-track-1*** Raw MagTek Magensa encrypted reader data. billing-magnesafe-track-2*** Raw MagTek Magensa encrypted reader data. billing-magnesafe-track-3*** Raw MagTek Magensa encrypted reader data. billing-magnesafe-ksn*** Raw MagTek Magensa encrypted reader data.

billing-magnesafe-magneprint-

status***

Raw MagTek Magensa encrypted reader data.

billing-social-security-number

Customer's social security number (Checked against bad check writers

database if check verification is enabled).

billing-drivers-license-number

billing-drivers-license-dob****

Driver's license number (Checked against bad check writers database if check verification is enabled).

Driver's license date of birth.

billing-drivers-license-state****

Customer's driver's license state.

Format: CC

billing-first-name Cardholder's first name, overwrites value if passed during step one. billing-last-name Cardholder's last name, overwrites value if passed during step one. billing-address1 Cardholder's billing address, overwrites value if passed during step one.

billing-city Card billing city, overwrites value if passed during step one.

Card billing state/province, overwrites value if passed during step one. billing-state

Format: CC

billing-postal Card billing postal code, overwrites value if passed during step one.

Card billing country code, overwrites value if passed during step one. billing-country

Format: CC/ISO 3166

billing-phone Billing phone number, overwrites value if passed during step one. Billing email address, overwrites value if passed during step one. billing-email billing-company Cardholder's company, overwrites value if passed during step one. billing-address2 Card billing address, line 2, overwrites value if passed during step one.

billing-fax Billing fax number, overwrites value if passed during step one. shipping-first-name Shipping first name, overwrites value if passed during step one.

Shipping-last-name Shipping last name, overwrites value if passed during step one.

Shipping-address1 Shipping address, overwrites value if passed during step one.

shipping-city Shipping city, overwrites value if passed during step one.

Shipping state/province, overwrites value if passed during step one.

Format: CC

shipping-postal Shipping postal code, overwrites value if passed during step one.

Shipping country code, overwrites value if passed during step one.

Format: CC/ISO 3166

shipping-phone Shipping phone number, overwrites value if passed during step one. Shipping-email Shipping email address, overwrites value if passed during step one. Shipping-company Shipping company, overwrites value if passed during step one. Shipping-address2 Shipping address, line 2, overwrites value if passed during step one. Shipping-fax Shipping fax number, overwrites value if passed during step one.

* Required for keyed credit card transactions.

** Required for ACH transactions.

shipping-state

shipping-country

*** Used for retail transactions. Variables used dependent on swipe device.

**** Required for check verification.

† Required for check scanning.

HTML Form Fields Response

Once the Payment Gateway has collected the customer's sensitive payment details, the customer's browser will immediately be redirected back to the **redirect-url** on your web server. A variable named **token-id** will be appended to the **redirect-url** in the GET query string as described below:

https://redirect-url/?token-id=[token]

Step Three Three-Step: Customer Vault

Complete Action XML Request

XML Element Description

<complete-action>

api-key* api-key is obtained in the security keys section of the control panel settings.

token-id* Customer payment token returned during step two.

</complete-action>

* Required

Complete Action XML Response

XML Element Description

<response>

country

drivers-license-state

account-name

1=Transaction Approved

result 2=Transaction Declined

3=Error in transaction data or system error

result-text Textual response.

result-code Numeric mapping of processor responses. (See Appendix 3)

Action type that was initially specified.

action-type Values: 'sale', 'auth', 'credit', 'validate', or 'offline'

Customer vault id used or created during action. customer-vault-id

Merchant specified custom fields.

merchant-defined-field-# Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

dilling> The customer's billing information.

billing-id Billing id used or created for this action.

first-name Cardholder's first name. Cardholder's last name. last-name

address1 Cardholder's billing address.

city Card billing city.

Card billing state/province.

state Format: CC

Card billing postal code. postal

Card billing country code.

Format: CC/ISO 3166

phone Billing phone number. email Billing email address. company Cardholder's company. address2 Card billing address, line 2.

fax Billing fax number.

social-security-number Customer's social security number

drivers-license-number Driver's license number.

drivers-license-dob Driver's license date of birth.

Customer's driver's license state.

Format: CC

Masked credit card number. cc-number

Format: XXXXXX******XXXX

Credit card expiration.

cc-exp Format: MMYY

The name on the customer's bank account.

Masked bank account number.

account-number

Format: X****XXXX

routing-number

Masked bank routing number.

Format: X****XXXX

account-type The customer's ACH account type.

Values: 'checking' or 'savings'

entity-type

The customer's ACH account entity.

Values: 'personal' or 'business'

Billing id priority.

priority Format: Numeric, 1-255

</billing>

<shipping> The customer's shipping information.
shipping-id
Shipping id used or created during action.

first-name Shipping first name.
last-name Shipping last name.
address1 Shipping billing address.

city Shipping city.

state Shipping state/province.

Format: CC

postal Shipping postal code.

Shipping country code.

Format: CC/ISO 3166

phone Shipping phone number. email Shipping email address.

company Shipping company.

address2 Shipping address, line 2. Shipping fax number.

Shipping id priority.

priority Format: Numeric, 1-255

</shipping>
</response>

country

Additional Operations Three-Step: Customer Vault

Add/Update Billing Request (Step 1)

XML Element Description

<add-billing|update-billing>

Type of transaction to perform.

api-key*

api-key is obtained in the security keys section of the control panel settings.

A URL on your web server that the gateway will redirect your customer to after

sensitive data collection. Value is not required for 'update-billing' requests when

sensitive data is not presented.

Example: Updating an address or zip code only.

customer-vault-id*

Load customer details from an existing customer vault record. If set, no payment

information is required during step two.

 The customer's billing information

billing-id Specify billing id. Required for update-customer if multiple billing ids exist, optional

for add-billing.

first-name Cardholder's first name.
last-name Cardholder's last name.
address1 Cardholder's billing address.

city Card billing city.

state Card billing state/province.

Format: CC

postal Card billing postal code.

Card billing country code.

Format: CC/ISO 3166

phone Billing phone number.
email Billing email address.
company Cardholder's company.
address2 Card billing address, line 2.

fax Billing fax number.

account-type

The customer's ACH account type.

Values: 'checking' or 'savings'

The customer's ACH account entity.

Values: 'personal' or 'business'

priority Specify priority (If omitted, will be auto-generated and returned in response.)

Format: Numeric, 1-255

</billing>

entity-type

country

redirect-url*

</add-billing|update-billing>

* Required

amount*

Customer Vault initiated Sale/Auth/Credit/Offline XML Request

Element Description

<sale|auth|credit|offline> Any and all optional fields described here can be appended to this request.

api-key* api-key is obtained in the security keys section of the control panel settings.

Total amount to be charged.

Format: x.xx

processor-id If using multiple MIDs, route to this processor. The values for 'processor-id'

id' are obtained under 'Settings'->'Load Balancing' in the Control Panel.

customer-vault-id* Load Customer details from an existing Customer Vault record.

 The customer's billing information.

billing-id Load Billing ID details from an existing Billing record. If not set, the

billing-id with the highest priority will be used by default.

</billing>

<shipping> The customer's shipping information.

shipping-id Load shipping id details from an existing shipping record. If unset, the

billing-id with the highest priority will be used by default.

</shipping>

</sale|auth|credit|offline>

* Required

Delete Customer XML Request

Element Description

<delete-customer>

api-key* api-key is obtained in the security keys section of the control panel settings.

customer-vault-id

Specify customer to be deleted.

</delete-customer>

* Required

Delete Billing XML Request

Element Description

<delete-billing>

api-key* api-key is obtained in the security keys section of the control panel settings.

customer-vault-id* Load customer details from an existing customer vault record. If set, no payment

information is required during step two.

dilling>

billing-id* Specify billing id to delete.

</billing>

</delete-billing>

* Required

Add/Update/Delete Shipping XML Request

These requests can be made the by replacing the billing section with shipping

Step One

Three-Step: Recurring

Add Subscription to an Existing Plan

company

Cardholder's company.

Element	Description
<add-subscription></add-subscription>	Associate payment information with a recurring plan.
api-key*	api-key is obtained in the Security Keys section of the Control Panel Settings.
redirect-url*	A URL on your web server that the gateway will redirect your customer to after sensitive data collection. Value is not required when sensitive data is not presented. Example: Adding a Subscription using a Customer Vault ID.
customer-vault-id	Load customer details from an existing customer vault record. If set, no payment information is required during step two.
start-date	The first day that the customer will be charged. Format: YYYYMMDD
order-id	Order id.
po-number	Cardholder's purchase order number.
order-description	Order description.
currency	Set transaction currency. Format: ISO 4217
tax-amount	The sales tax included in the transaction amount associated with the purchase. Setting tax equal to '-1' indicates an order that is exampt from sales tax. Default: 0.00' Format: x.xx
shipping-amount	Total shipping amount.
merchant-defined-field-	Merchant specified custom fields.
#	Format: <merchant-defined-field-1>Value</merchant-defined-field-1>
<plan></plan>	
plan-id*	The unique plan ID that references only this recurring plan.
 dilling>	The customer's billing information
billing-id	Specify billing id. Recommended when using customer vault hybrid action. Will be ignored if no hybrid add/update-customer is done.
first-name	Cardholder's first name.
last-name	Cardholder's last name.
address1	Cardholder's billing address.
city	Card billing city.
state	Card billing state/province. Format: CC
postal	Card billing postal code.
country	Card billing country code. Format: CC/ISO 3166
phone	Billing phone number.
email	Billing email address.

address2 Card billing address, line 2.

fax Billing fax number.

account-type**

The customer's ACH account type.

Values: 'checking' or 'savings'

entity-type**

The customer's ACH account entity.

Values: 'personal' or 'business'

</billing>

<shipping> The customer's shipping information.

shipping-id Specify shipping id. Recommended when using customer vault hybrid action. Will be

ignored if no hybrid add/update-customer is done.

first-name Shipping first name.
last-name Shipping last name.
address1 Shipping address.
city Shipping city.

Shipping state/province.

state Format: CC

postal Shipping postal code.

country Shipping country code. Format: CC/ISO 3166

phone Shipping phone number.
email Shipping email address.
company Shipping company.
address2 Shipping address, line 2.
fax Shipping fax number.

</shipping>

po-number

</add-subscription>

* Always required

Add Subscription to a Custom Plan

Element	Description
<add-subscription></add-subscription>	Associate payment information with a recurring plan.
api-key*	api-key is obtained in the Security Keys section of the Control Panel Settings.
redirect-url*	A URL on your web server that the gateway will redirect your customer to after sensitive data collection. Value is not required when sensitive data is not presented. Example: Adding a Subscription using a Customer Vault ID.
customer-vault-id	Load customer details from an existing customer vault record. If set, no payment information is required during step two.
start-date	The first day that the customer will be charged. Format: YYYYMMDD
order-id	Order id.

Cardholder's purchase order number.

^{**} Required for ACH transactions

order-description Order description.

currency Set transaction currency.

Format: ISO 4217

The sales tax included in the transaction amount associated with the purchase. Setting

tax equal to '-1' indicates an order that is exampt from sales tax.

tax-amount Default: '0.00'

Format: x.xx

shipping-amount Total shipping amount.

merchant-defined-field- Merchant specified custom fields.

Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

<plan>

payments*

The number of payments before the recurring plan is complete.

Notes: '0' for until canceled

amount* The plan amount to be charged each billing cycle.

Format: x.xx

day-frequency***

How often, in days, to charge the customer. Cannot be set with 'month-frequency' or

'day-of-month'.

How often, in months, to charge the customer. Cannot be set with 'day-frequency'.

month-frequency**** Must be set with 'day-of-month'.

Values: 1 through 24

The day that the customer will be charged. Cannot be set with 'day-frequency'. Must

be set with 'month-frequency'.

day-of-month****

Values: 1 through 31 - for months without 29, 30, or 31 days, the charge will be on the

last day

</plan>

billing-id Specify billing id. Recommended when using customer vault hybrid action. Will be

ignored if no hybrid add/update-customer is done.

first-name Cardholder's first name.
last-name Cardholder's last name.
address1 Cardholder's billing address.

city Card billing city.

state Card billing state/province.

Format: CC

postal Card billing postal code.

Card billing country code.

country Format: CC/ISO 3166

phone Billing phone number.
email Billing email address.
company Cardholder's company.
address2 Card billing address, line 2.

fax Billing fax number.

account-type**

The customer's ACH account type.

Values: 'checking' or 'savings'

entity-type**

The customer's ACH account entity.

Values: 'personal' or 'business'

</billing>

<shipping> The customer's shipping information.

shipping-id Specify shipping id. Recommended when using customer vault hybrid action. Will be

ignored if no hybrid add/update-customer is done.

first-name Shipping first name.
last-name Shipping last name.
address1 Shipping address.
city Shipping city.

Shipping state/province.

state Simpping state Format: CC

postal Shipping postal code.

Shipping country code.

Format: CC/ISO 3166

phone Shipping phone number.
email Shipping email address.
company Shipping company.

address2 Shipping address, line 2. Shipping fax number.

</shipping>

country

</add-subscription>

* Always required

** Required for ACH transactions

*** Required unless 'month-frequency' and 'day-of-month' is set.

**** Required unless 'day-frequency' is set.

Update Subscription Information

Element	Description
<update-subscription></update-subscription>	Update Customer's information for a subscription.
api-key*	api-key is obtained in the Security Keys section of the Control Panel Settings.
redirect-url*	A URL on your web server that the gateway will redirect your customer to after sensitive data collection. Value is not required when sensitive data is not presented. Example: Updating a Subscription using a Customer Vault ID.
subscription-id*	The subscription that will be updated.
order-id	Order id.
po-number	Cardholder's purchase order number.

order-description Order description.

Set transaction currency.

currency Format: ISO 4217

merchant-defined-field- Merchant specified custom fields.

Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

 The customer's billing information

first-name Cardholder's first name.
last-name Cardholder's last name.
address1 Cardholder's billing address.

city Card billing city.

Card billing state/province.

Format: CC

postal Card billing postal code.

Card billing country code.

country Format: CC/ISO 3166

phone Billing phone number.
email Billing email address.
company Cardholder's company.
address2 Card billing address, line 2.

fax Billing fax number.

The customer's ACH account type.

Values: 'checking' or 'savings'

entity-type**

The customer's ACH account entity.

Values: 'personal' or 'business'

</billing>

account-type**

state

<shipping> The customer's shipping information.

first-name Shipping first name.
last-name Shipping last name.
address1 Shipping address.
city Shipping city.

Shipping state/province.

state Format: CC

postal Shipping postal code.

Shipping country code.

Format: CC/ISO 3166

phone Shipping phone number.
email Shipping email address.
company Shipping company.

address2 Shipping address, line 2. Shipping fax number.

</shipping>

country

</update-subscription>

* Always Required.

** Required for ACH subscriptions.

Step Two Three-Step: Recurring

HTML Form Fields Request

billing-state

HTML Form Fields	Description
billing-cc-number*	Credit card number.
billing-cc-exp*	Credit card expiration. Format: MMYY
billing-cvv	Card security code.
billing-account-name**	The name on the customer's ACH Account.
billing-account-number**	The customer's bank account number.
billing-routing-number**	The customer's bank routing number.
billing-account-type	The customer's ACH account type. Values: 'checking' or 'savings'
billing-entity-type	The customer's ACH account entity. Values: 'personal' or 'business'
billing-micr†	Physical check's Magnetic ink strip, on supported check processors. For use with 'POP' or 'ARC' sec-code.
billing-track-1***	Raw magnetic stripe data, track 1.
billing-track-2***	Raw magnetic stripe data, track 2.
billing-track-3***	Raw magnetic stripe data, track 3.
billing-magnesafe-track-1***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-track-2***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-track-3***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-ksn***	Raw MagTek Magensa encrypted reader data.
billing-magnesafe-magneprint- status***	Raw MagTek Magensa encrypted reader data.
billing-social-security-number ****	Customer's social security number, checked against bad check writers database if check verification is enabled.
billing-drivers-license-number ****	Drivers license number, checked against bad check writers database if check verification is enabled.
billing-drivers-license-dob****	Drivers license date of birth.
billing-drivers-license-state***	Customer's drivers license state. Format: CC
billing-first-name	Cardholder's first name. Overwrites value if passed during step one.
billing-last-name	Cardholder's last name. Overwrites value if passed during step one.
billing-address1	Cardholder's billing address. Overwrites value if passed during step one.
billing-city	Card billing city. Overwrites value if passed during step one.

Format: CC

Card billing state/province. Overwrites value if passed during step one.

billing-postal Card billing postal code. Overwrites value if passed during step one.

Card billing country code. Overwrites value if passed during step one.

Shipping fax number. Overwrites value if passed during step one.

Format: CC/ISO 3166

billing-phone Billing phone number. Overwrites value if passed during step one.

billing-email Billing email address. Overwrites value if passed during step one.

Cardholder's company. Overwrites value if passed during step one.

Card billing address, line 2. Overwrites value if passed during step one.

billing-fax
Billing fax number. Overwrites value if passed during step one.
shipping-first-name
Shipping last name. Overwrites value if passed during step one.
shipping-address1
Shipping address. Overwrites value if passed during step one.
shipping-city
Shipping city. Overwrites value if passed during step one.

shipping-state Shipping state/province. Overwrites value if passed during step one.
shipping-postal Shipping postal code. Overwrites value if passed during step one.
shipping-country Shipping country code. Overwrites value if passed during step one.
shipping-phone Shipping phone number. Overwrites value if passed during step one.
shipping-email Shipping email address. Overwrites value if passed during step one.
shipping-company Shipping company. Overwrites value if passed during step one.
shipping-address2 Shipping address, line 2. Overwrites value if passed during step one.

* Required for keyed credit card transactions.

** Required for ACH transactions.

shipping-fax

billing-country

*** Used for retail transactions. Variables used dependant on swipe device.

**** Required for check verification.

† Required for check scanning.

HTML Form Fields Response

Once the Payment Gateway has collected the customer's sensitive payment details, the customer's browser will immediately be redirected back to the **redirect-url** on your web server. A variable named **token-id** will be appended to the **redirect-url** in the GET query string as described below:

https://redirect-url/?token-id=[token]

Step Three Three-Step: Recurring

Complete Action XML Request

XML Element

Description

<complete-action>

api-key* api-key is obtained in the security keys section of the control panel settings.

token-id* Customer payment token returned during step two.

</complete-action>

Complete Action XML Response

XML Element Description

response

1=Transaction Approved

result 2=Transction Declined

3=Error in transaction data or system error

result-text Textual response.

result-code Numeric mapping of processor responses. (See Appendix 3)

action-type Action type that was initially specified.

Values: 'sale', 'auth', 'credit', 'validate', or 'offline'

subscription-id Subscription ID used or created during action.

merchant-defined-field-# Merchant specified custom fields.

Format: <merchant-defined-field-1>Value</merchant-defined-field-1>

<plan>

payments

The number of payments before the recurring plan is complete.

Notes: '0' for until canceled

The plan amount to be charged each billing cycle.

amount Format: x.xx

name The display name of the plan.

plan-id The plan ID that is associated with this subscription.

day-frequency How often, in days, to charge the customer. Cannot be set with 'month-frequency' or

'day-of-month'.

How often, in months, to charge the customer. Cannot be set with 'day-frequency'.

month-frequency Must be set with 'day-of-month'.

Values: 1 through 24

The day that the customer will be charged. Cannot be set with 'day-frequency'. Must

be set with 'month-frequency'.

day-of-month

Values: 1 through 31 - for months without 29, 30, or 31 days, the charge will be on

the last day

</plan>

first-name Cardholder's first name. last-name Cardholder's last name.

address1 Cardholder's billing address.

city Card billing city.

^{*} Required

Card billing state/province. state

Format: CC

Card billing postal code. postal

Card billing country code.

country Format: CC/ISO 3166

Billing phone number.

phone email Billing email address.

Cardholder's company. company address2 Card billing address, line 2.

fax Billing fax number.

social-security-number Customer's social security number

drivers-license-number Drivers license number.

drivers-license-dob Drivers license date of birth.

Customer's drivers license state. drivers-license-state

Format: CC

Masked credit card number. cc-number

Format: XXXXXX******XXXX

Credit card expiration.

cc-exp Format: MMYY

The name on the customer's bank account. account-name

Masked bank account number.

account-number Format: X****XXXX

Masked bank routing number.

Format: X****XXXX

The customer's ACH account type. account-type

Values: 'checking' or 'savings'

The customer's ACH account entity. entity-type

Values: 'personal' or 'business'

Billing id priority.

priority Format: Numeric, 1-255

</billing>

state

routing-number

The customer's shipping information. <shipping> Shipping id used or created during action. shipping-id

first-name Shipping first name. last-name Shipping last name. address1 Shipping address.

city Shipping city.

Shipping state/province.

Format: CC

postal Shipping postal code.

Shipping country code.

country Format: CC/ISO 3166

Shipping phone number. phone

email Shipping email address. Shipping company. company address2 Shipping address, line 2. fax Shipping fax number. Shipping id priority. priority Format: Numeric, 1-255

</shipping> </response>

Additional Operations Three-Step: Recurring

Add Plan XML Request

Element	Description
<add-plan></add-plan>	Add a recurring plan that subscriptions can be added to in the future.
api-key*	api-key is obtained in the Security Keys section of the Control Panel Settings.
<plan></plan>	
payments*	The number of payments before the recurring plan is complete. Notes: '0' for until canceled
amount*	The plan amount to be charged each billing cycle. Format: x.xx
name*	The display name of the plan.
plan-id*	The unique plan ID that references only this recurring plan.
day-frequency**	How often, in days, to charge the customer. Cannot be set with 'month-frequency' or 'day-of-month'.
month-frequency***	How often, in months, to charge the customer. Cannot be set with 'day-frequency'. Must be set with 'day-of-month'. Values: 1 through 24
day-of-month***	The day that the customer will be charged. Cannot be set with 'day-frequency'. Must be set with 'month-frequency'. Values: 1 through 31 - for months without 29, 30, or 31 days, the charge will be on the last day

- Always required
- ** Required unless 'month-frequency' and 'day-of-month' is set.
- *** Required unless 'day-frequency' is set.

Delete a Subscription

Element Description <delete-subscription> Delete the subscription. Customer will no longer be charged.

api-key* api-key is obtained in the Security Keys section of the Control Panel Settings.

subscription-id* The subscription ID that will be deleted.

</delete-subscription>

Testing Information Three-Step

Transaction Testing Credentials

Transactions can be tested using one of two methods. First, transactions can be submitted to any merchant account that is in test mode. Keep in mind that if an account is in test mode, all valid credit cards will be approved but no charges will actually be processed.

The Payment Gateway demo account can also be used for testing at any time. Please use the following api-key for testing with this account:

api-key: 2F822Rw39fx762MaV7Yy86jXGTC7sCDy

Transaction POST URL

In step one and step three, transaction details should be POST'ed using XML to the following URL:

POST URL https://secure.merchantservicegateway.com/api/v2/three-step

Test Data

Transactions can be submitted using the following information:

Credit Card Expiration: 10/25

account (ACH): 123123123 routing (ACH): 123123123

amount 1.00 (Amounts under 1.00 generate failure).

Triggering Errors in Test Mode

- To cause a declined message, pass an amount less than 1.00.
- To trigger a fatal error message, pass an invalid card number.
- To simulate an AVS match, pass 888 in the address1 field, 77777 for zip.

^{*} Always required

• To simulate a CVV match, pass 999 in the cvv field.

Appendix 1 Three-Step

AVS Response Codes

- X Exact match, 9-character numeric ZIP
- Y Exact match, 5-character numeric ZIP
- D Exact match, 5-character numeric ZIP
- M Exact match, 5-character numeric ZIP
- A Address match only
- B Address match only
- W 9-character numeric ZIP match only
- Z 5-character ZIP match only
- P 5-character ZIP match only
- L 5-character ZIP match only
- N No address or ZIP match only
- C No address or ZIP match only
- U Address unavailable
- G Non-U.S. issuer does not participate
- I Non-U.S. issuer does not participate
- R Issuer system unavailable
- E Not a mail/phone order
- S Service not supported
- O AVS not available
- B AVS not available

Appendix 2 Three-Step

CVV Response Codes

M CVV2/CVC2 match

- N CVV2/CVC2 no match
- P Not processed
- S Merchant has indicated that CVV2/CVC2 is not present on card

Appendix 3 Three-Step

Result Code Table

- 100 Transaction was approved.
- 200 Transaction was declined by processor.
- 201 Do not honor.
- 202 Insufficient funds.
- 203 Over limit.
- 204 Transaction not allowed.
- 220 Incorrect payment information.
- 221 No such card issuer.
- 222 No card number on file with issuer.
- 223 Expired card.
- 224 Invalid expiration date.
- 225 Invalid card security code.
- 240 Call issuer for further information.
- 250 Pick up card.
- 251 Lost card.
- 252 Stolen card.
- 253 Fraudulent card.
- 260 Declined with further instructions available. (See response text)
- 261 Declined-Stop all recurring payments.
- 262 Declined-Stop this recurring program.
- 263 Declined-Update cardholder data available.
- 264 Declined-Retry in a few days.
- 300 Transaction was rejected by gateway.
- 400 Transaction error returned by processor.
- 410 Invalid merchant configuration.
- 411 Merchant account is inactive.
- 420 Communication error.
- 421 Communication error with issuer.
- 430 Duplicate transaction at processor.
- 440 Processor format error.
- 441 Invalid transaction information.
- 460 Processor feature not available.

