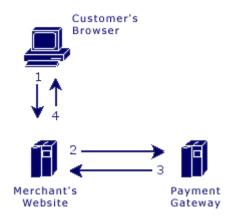
Methodology Direct Post API

Transactions



Steps:

- 1. The customer sends their payment information to the merchant's web site.
- 2. The merchant web site posts the payment data to the Payment Gateway.
- 3. The Payment Gateway responds immediately with the results of the transactions.
- 4. The merchant web site displays the appropriate message to the customer.

The communication method used to send messages to the Payment Gateway's server is the standard HTTP protocol over an SSL connection.

In the Direct Post method, the communications with the cardholder (Steps 1 and 4) are developed completely by the merchant and therefore are not defined by the Payment Gateway. Step 1 should simply collect the payment data from the cardholder and Step 4 should display the appropriate transaction receipt or declined message.

In Step 2, transaction details should be delivered to the Payment Gateway using the POST method with the appropriate variables defined below posted along with the request.

In Step 3, the transaction responses are returned in the body of the HTTP response in a query string name/value format delimited by ampersands. For example: variable1=value1&variable2=value2&variable3=value3

Customer Vault

The Customer Vault was designed specifically for businesses of any size to address concerns about handling customer payment information. Visa and MasterCard have instituted the Payment Card Industry (PCI) Data Security to protect cardholder data, wherever it resides, ensuring that members, merchants, and service providers maintain the highest information security standards.

These associations have also deemed that merchants will be held liable for any breach of cardholder data. This has become a major concern for merchants who handle credit card or electronic check payments. The Customer Vault is designed for these merchants who desire to avoid the tremendous costs and resources involved in becoming PCI compliant under these circumstances.

The Customer Vault does this by allowing merchants to transmit their payment information through a Secure Sockets Layer (SSL) connection for storage in our Level 1 PCI certified data facility. Once the customer record has been securely transmitted to the Customer Vault, the merchant can then initiate transactions remotely without having to access cardholder information directly. This process is accomplished without the merchant storing the customer's payment information in their local database or payment application.

Transaction Types Direct Post API

Sale (sale)

Transaction sales are submitted and immediately flagged for settlement.

Authorization (auth)

Transaction authorizations are authorized immediately but are not flagged for settlement. These transactions must be flagged for settlement using the capture transaction type. Authorizations typically remain active for three to seven business days.

Capture (capture)

Transaction captures flag existing authorizations for settlement. Only authorizations can be captured. Captures can be submitted for an amount equal to or less than the original authorization.

Void (void)

Transaction voids will cancel an existing sale or captured authorization. In addition, non-captured authorizations can be voided to prevent any future capture. Voids can only occur if the transaction has not been settled.

Refund (refund)

Transaction refunds will reverse a previously settled transaction. If the transaction has not been settled, it must be voided instead of refunded.

Credit (credit)

Transaction credits apply an amount to the cardholder's card that was not originally processed through the Gateway. In most situations credits are disabled as transaction refunds should be used instead.

Validate (validate)

This action is used for doing an "Account Verification" on the cardholder's credit card without actually doing an authorization.

Update (update)

Transaction updates can be used to update previous transactions with specific order information, such as a tracking number and shipping carrier.

Transaction Variables Direct Post API

Sale/Authorization/Credit/Validate

Variable Name	Description
type*	The type of transaction to be processed. Values: 'sale', 'auth', 'credit', or 'validate'
username*	Username assigned to merchant account.
password*	Password for the specified username.
ccnumber**	Credit card number.
ccexp**	Credit card expiration date. Format: MMYY
cvv	The card security code. While this is not required, it is strongly recommended.
checkname***	The name on the customer's ACH account.
checkaba***	The customer's bank routing number.
checkaccount***	The customer's bank account number.
account_holder_type***	The type of ACH account the customer has. Values: 'business' or 'personal'
account_type***	The ACH account entity of the customer. Values: 'checking' or 'savings'

sec_code***

The Standard Entry Class code of the ACH transaction.

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

Total amount to be charged. For validate, the amount must be omitted or

set to 0.00.

Format: x.xx

currency The transaction currency. Format: ISO 4217

The type of payment.

payment*** Default: 'creditcard'

amount

state

Values: 'creditcard' or 'check'

processor_id If using Multiple MIDs, route to this processor_id is obtained

under Settings->Load Balancing in the Control Panel).

dup_seconds Sets the time in seconds for duplicate transaction checking on supported

processors. Set to 0 to disable duplicate checking.

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.

billing_method Should be set to 'recurring' to mark payment as a recurring transaction.

Values: 'recurring'

orderdescription Order description.

orderid Order Id

ipaddress IP address of cardholder, this field is recommended.

Format: xxx.xxx.xxx.xxx

tax**** Total tax amount.

shipping****

ponumber****

Original purchase order
firstname

Cardholder's first name.

lastname

Cardholder's last name

company

Cardholder's company

address1

Card billing address

address2 Card billing address, line 2

city Card billing city

Card billing state.

Format: CC

zip Card billing zip code

Card billing country.

country Country codes are as shown in ISO 3166. Format: CC

phone Billing phone number fax Billing fax number email Billing email address

social security number Customer's social security number, checked against bad check writers

database if check verification is enabled.

drivers_license_number Driver's license number.

drivers_license_dob Driver's license date of birth.

drivers_license_state

The state that issued the customer's driver's license.

validation Specify which Validation processors to use. If variable is passed blank,

use none.

shipping_firstname
shipping_lastname
shipping_company
shipping_address1
Shipping first name
Shipping last name
Shipping company
Shipping address

shipping_address2 Shipping address, line 2

shipping_city
Shipping city
shipping_state
Shipping state
Format: CC

shipping_zip Shipping zip code

shipping_country

Shipping country

Country codes are as shown in ISO 3166. Format: CC

shipping_email Shipping email address

merchant_defined_field_#

You can pass custom information in up to 20 fields.

Format: merchant_defined_field_1=Value

recurring Recurring action to be processed.

Values: add_subscription

plan_amount

plan_id Create a subscription tied to a Plan ID if the sale/auth transaction is

successful.

plan_payments

The number of payments before the recurring plan is complete.

Note: Use '0' for 'until canceled'

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

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'.

day_of_month

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

the state of the s

will be on the last day

The first day that the customer will be charged.

start_date Format: YYYYMMDD

Level III specific order fields

Freight or shipping amount included in the transaction amount

shipping Default: '0.00'

tax

duty_amount

alternate_tax_amount

Format: x.xx

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

ponumber† Purchase order number supplied by cardholder

orderid† Identifier assigned by the merchant. This defaults to gateway transaction

id.

shipping country† Shipping country (e.g. US)

Format: CC

Postal/ZIP code of the address where purchased goods will be delivered. shipping_postal†

This field can be identical to the 'ship_from_postal' if the customer is

present and takes immediate possession of the goods.

ship from postal†

Postal/ZIP code of the address from where purchased goods are being

shipped, defaults to merchant profile postal code.

4 character international description code of the overall goods or services being supplied. The acquirer or processor will provide a list of current

summary_commodity_code† being supplied. The acquirer or processor will provide a list of current

codes.

Amount included in the transaction amount associated with the import of

purchased goods.
Default: '0.00'

Format: x.xx

Amount included in the transaction amount of any discount applied to

complete order by the merchant.

discount_amount Default: '0.00'

Format: x.xx

The national tax amount included in the transaction amount.

national_tax_amount Default: '0.00'

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.

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 purchased item.

vat_tax_amount With the pure.

Default: '0.00'

Format: x.xx

Contains the tax rate used to calculate the sales tax amount appearing.

Can contain up to 2 decimal places, e.g. 1% = 1.00.

vat_tax_rate Default: '0.00'

Format: x.xx

merchant vat registration

Government assigned tax identification number of the merchant for

whom the goods or services were purchased from.

order date Purchase order date, defaults to the date of the transaction.

Format: YYMMDD

Level III specific line item detail fields

item_product_code_#† Merchant defined description code of the item being purchased.

item_description_#† Description of the item(s) being supplied.

item_commodity_code_#†

International description code of the individual good or service being

supplied. The acquirer or processor will provide a list of current codes.

item_unit_of_measure_#†

Code for units of measurement as used in international trade.

Default: 'EACH'

item_unit_cost_#† Unit cost of item purchased, may contain up to 4 decimal places.

Quantity of the item(s) being purchased.

item_quantity_#† Quantity of Default: '1'

item total amount #†

Purchase amount associated with the item. Defaults to:

'item_unit_cost_#' x 'item_quantity_#' rounded to the nearest penny.

Amount of tax on specific item, amount should not be included in

item_tax_amount_#† 'total_amount_#'.

Default: '0.00'

item_tax_rate_#†

Percentage representing the value-added tax applied.

Default: '0.00'

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

sale of the specific item. Amount should not be included in

'total_amount_#'.

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

Default: '0.00'

item_tax_type_# Type of value-added taxes that are being used.

item_alternate_tax_id_#

Tax identification number of the merchant that reported the alternate tax

amount.

* Always required

item_discount_rate_#

item_discount_amount_#

** Required for credit card transactions

*** Required for ACH transactions

**** Required for Level 2 transactions

† Required for Level 3 transactions

Notes:

- Level II fields are required for Level II processing.
- Level II and Level III fields are required for Level III processing.
- You can pass only credit card **or** e-check transaction variables in a request, not both in the same request.
- Certain banks may require some optional fields.

Capture

Variable Name

Description

type* Type of transaction.

Values: 'capture'

username* Username assigned to merchant account.
password* Password for the specified username.
transactionid* Original payment gateway transaction id

Total amount to be settled. This amount must be equal to or less than the original

amount* authorized amount.

Format: x.xx

tracking_number Shipping tracking number

Shipping carrier.

shipping_carrier

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

orderid Order id.

* Always required

Void

Variable Name Description

type* Type of transaction.

Values: 'void'

username* Username assigned to merchant account.
password* Password for the specified username.
transactionid* Original payment gateway transaction id

* Always required

Refund

Variable Name Description

type* Type of transaction. Values: 'refund'

username* Username assigned to merchant account.
password* Password for the specified username.
transactionid* Original payment gateway transaction id

Total amount to be refunded. This amount may be equal to or less than the settled amount.

amount Format: x.xx

* Always required

Update

Variable Name Description

type*

Type of transactions.

Yelves: 'undete'

Values: 'update'

username* Username assigned to merchant account.
password* Password for the specified username.
transactionid* Original payment gateway transaction id

tracking_number Shipping tracking number

Total shipping amount.

shipping Format: x.xx

ship_from_postal

Postal/ZIP code of the address where purchased goods will be delivered. shipping_postal

This field can be identical to the 'ship from postal' if the customer is

present and takes immediate possession of the goods.

Postal/ZIP code of the address from where purchased goods are being

shipped, defaults to merchant profile postal code.

shipping_country Shipping Country Code.

Shipping carrier.

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

Shipping date.

shipping_date Format: YYYYMMDD

Order Description. orderdescription

Order date. order_date

Format: YYYYMMDD

If set to true, when the customer is charged, they will be sent a

transaction receipt. customer_receipt

Values: 'true' or 'false'

ponumber Cardholder's purchase order number.

4 character international description code of the overall goods or services

being supplied. The acquirer or processor will provide a list of current summary_commodity_code

codes.

Amount included in the transaction amount associated with the import of

duty_amount purchased goods.

Format: x.xx

Amount included in the transaction amount of any discount applied to

complete order by the merchant. discount amount

Format: x.xx

Tax amount. tax

alternate_tax_amount

Format: x.xx

The national tax amount included in the transaction amount. national_tax_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.

Format: x.xx

Tax identification number of the merchant that reported the alternate tax alternate_tax_id

amount.

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

with the purchased item.

Contains the tax rate used to calculate the sales tax amount appearing. vat_tax_rate

Can contain up to 2 decimal places, e.g. 1% = 1.00.

Invoice number that is associated with the VAT invoice. vat_invoice_reference_number

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

Government assigned tax identification number of the merchant for

whom the goods or services were purchased from.

merchant_defined_field_#

Merchant Defined Fields.

Format: merchant_defined_field_1=Value

* Always required

Retail Data Direct Post API

Passing Unencrypted Retail Magnetic Stripe Data

Variable Name	Description
track_1	Raw Magnetic Stripe Data
track_2	Raw Magnetic Stripe Data
track_3	Raw Magnetic Stripe Data

Passing MagTek Magensa Encrypted Magnetic Stripe Data

Variable Name	Description
magnesafe_track_1	Raw MagTek Magensa Data
magnesafe_track_2	Raw MagTek Magensa Data
magnesafe_magneprint	Raw MagTek Magensa Data
magnesafe_ksn	Raw MagTek Magensa Data
magnesafe_magneprint_status	Raw MagTek Magensa Data

Passing IDTech M130 Encrypted Swipe Data

Variable Name	Description
encrypted_track_1	Raw encrypted data
encrypted_track_2	Raw encrypted data
encrypted_track_3	Raw encrypted data
encrypted_ksn	Raw encrypted data

Passing IDTech M130 Encrypted Keyed Data

Variable Name Description encrypted_data Raw encrypted data

Apple Pay Direct Post API

Supported Processors

Currently Apple Pay is supported only on the Vital platform.

Configuring Apple Pay

Creating an Apple Merchant ID

First, you must obtain an Apple Merchant ID before you can generate the Certificate Signing Request that Apple requires. You will need to set up an Apple Merchant ID in your iOS Developer Account. Follow these steps to complete the setup:

- 1. Go to Apple's Developer Portal and log in to the Member Center to create a new Merchant ID.
- 2. Navigate to the Certificates, Identifiers, and Profiles area of the Member Center, and then begin the Register Merchant ID process.
- 3. You must then set the Apple Merchant ID within your gateway Control Panel under Settings -> Apple Pay.

Generating the Certificate Signing Request

Next, you will need to associate a Certificate with the Merchant ID in Apple's Developer Portal. After downloading the Certificate Signing Request from the gateway's options page, follow these steps.

- 1. In Apple's Developer Portal, click on the Merchant ID and then click "Edit".
- 2. Click "Create Certificate".
- 3. You are obtaining a CSR file from a Payment Provider so you will not have to create one. Click "Continue" to proceed to the upload page.
- 4. Click "Choose File..." and select the Gateway.certSigningRequest file you downloaded from the gateway's options page.

How to Obtain Apple Pay Payment Data

<u>PassKit</u> provides the payment data in the (*PKPayment* *) payment that is returned to your app's payment Authorization View Controller: didAuthorize Payment: completion method. The Apple Pay encrypted payment data is found in payment. token. payment Data.

payment.token.paymentData is a binary (NSData) object, so you must encode it as a hexadecimal string before it can be passed to the Gateway.

Passing Apple Pay Payment Data

To submit a payment with Apple Pay, send the encrypted token data into the applepay_payment_data variable. There is no need to decrypt the data in your app. Only the Gateway will have access to the private key that can decrypt the token.

Notes

When passing in applepay_payment_data, you should not include the variables ccnumber or ccexp; they are

extracted from the token data.

Important Note: The authorization amount must match the amount the customer approves in the app. If you pass in a currency, that must also match the currency approved in the app. If omitted, the currency from the app is used.

For working example code, including how to obtain the PKPayment object and how to pass a simple transaction to the Gateway, download the sample project.

Variables

Variable Name Description

applepay_payment_data

The encrypted Apple Pay payment data (payment.token.paymentData) from

Page Vit appended as a hour desired atting

PassKit encoded as a hexadecimal string

Troubleshooting

If you receive the error "Failed to decrypt Apple Pay data. Ensure that the Apple Pay Merchant ID is correct in the Gateway Settings and that the certificate was generated from a Gateway Certificate Signing Request.", try these steps:

- 1. Verify that the Merchant ID that Apple has in the developer portal exactly matches the Merchant ID in the Gateway's settings.
- 2. Verify that your app's PKPaymentRequest's merchantIdentifier exactly matches the Merchant ID in the Gateway's settings.
- 3. Ensure that the correct Merchant ID is checked in the Apple Pay section of the Capabilities tab in your project's target settings.
- 4. Try creating a new Merchant ID. Reusing an existing Merchant ID with a new certificate may sometimes cause issues with encryption.

Recurring Variables Direct Post API

Add a Plan

Variable Name Description

recurring* Add a recurring plan that subscriptions can be added to in the future.

Value: 'add_plan'

plan_payments*

The number of payments before the recurring plan is complete.

Notes: '0' for until canceled

plan_amount*

The plan amount to be charged each billing cycle.

Format: x.xx

plan_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'.

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'.

day_of_month***

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

on the last day

* Always required

first_name

last_name address1

city

** Required unless 'month_frequency' and 'day_of_month' is set.

*** Required unless 'day_frequency' is set.

Add a Subscription to an Existing Plan

_	
Variable Name	Description
recurring*	Associate payment information with a recurring plan. Value: add_subscription
plan_id*	The plan ID of the plan that the subscription will be associated with.
start_date	The first day that the customer will be charged. Format: YYYYMMDD
ccnumber**	Credit card number.
ccexp**	Credit card expiration. Format: MMYY
payment***	The type of payment. Default: 'creditcard' Values: 'creditcard' or 'check'
checkname***	The name on the customer's ACH account.
checkaccount***	The customer's bank account number.
checkaba***	The customer's bank routing number.
account_type***	The customer's ACH account type. Values: 'checking' or 'savings'
account_holder_type***	The customer's ACH account entity. Values: 'personal' or 'business'
sec_code	ACH standard entry class codes.

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

Cardholder's first name.

Cardholder's last name.

Card billing address.

Card billing city

state Card billing state.

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

fax Billing fax number.

orderid Order ID

order_description Order Description

merchant_defined_field_#

Can be set up in merchant control panel under 'Settings'->'Merchant

Defined Fields'.

ponumber Cardholder's purchase order number.

processor_id If using Multiple MIDs, route to this processor (processor_id is obtained

under Settings->Load Balancing in the Control Panel).

If set to true, when the customer is charged, they will be sent a

customer_receipt transaction receipt.

Values: 'true' or 'false'

* Always required

ccnumber****

** Required for credit card transactions

*** Required for ACH transactions

Adding a Custom Subscription

Variable Name	Description
recurring*	Add a custom recurring subscription that is NOT associated with an existing plan Value: 'add_subscription'
plan_payments*	The number of payments before the recurring plan is complete. Notes: '0' for until canceled
plan_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'.
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
start_date	The first day that the customer will be charged. Format: YYYYMMDD

Credit card number.

Credit card expiration. ccexp****

payment†

account_type†

Format: MMYY

The type of payment. Default: 'creditcard'

Values: 'creditcard' or 'check'

The name on the customer's ACH account. checkname†

The customer's bank account number. checkaccount† checkaba† The customer's bank routing number.

The customer's ACH account type.

Values: 'checking' or 'savings'

The customer's ACH account entity. account_holder_type†

Values: 'personal' or 'business'

ACH standard entry class codes. sec code

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

Cardholder's first name. first name last name Cardholder's last name. address1 Card billing address. city Card billing city state Card billing state.

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

fax Billing fax number.

Order ID orderid

order description Order Description

Can be set up in merchant control panel under 'Settings'->'Merchant merchant_defined_field_#

Defined Fields'.

Cardholder's purchase order number. ponumber

If using Multiple MIDs, route to this processor (processor id is obtained

under Settings->Load Balancing in the Control Panel).

If set to true, when the customer is charged, they will be sent a

customer_receipt transaction receipt.

Values: 'true' or 'false'

* Always required

processor_id

** Required unless 'month_frequency' and 'day_of_month' is set.

Required unless 'day frequency' is set.

**** Required for credit card transactions

Required for ACH transactions †

Update a Subscription's Billing Information

Variable Name Description

recurring* Update the subscription's billing information.

Value: 'update_subscription'

subscription_id The subscription ID that will be updated.

* Always required

Delete a Subscription

Variable Name Description

recurring* Delete the subscription. Customer will no longer be charged.

Value: 'delete_subscription'

subscription_id
* The subscription ID that will be deleted.

account_holder_type***

account_type***

Customer Vault Variables Direct Post API

Add/Update Customer Record

Variables	Description
customer_vault*	Add/Update a secure customer vault record. Values: 'add_customer' or 'update_customer'
customer_vault_id	Specifies a customer vault id. If not set, the payment gateway will randomly generate a customer vault id.
billing_id	Billing id to be assigned or updated. If none is provided, one will be created or the billing id with priority '1' will be updated.
username*	Username assigned to merchant account.
password*	Password assigned to merchant account.
ccnumber**	Credit card number.
ccexp**	Credit card expiration. Format: MMYY
checkname***	The name on the customer's ACH account.
checkaba***	The customer's bank routing number.
checkaccount***	The customer's bank account number.

The customer's ACH account entity.

The customer's ACH account type.

Values: 'personal' or 'business'

Values: 'checking' or 'savings'

^{*} Always required

sec code ACH standard entry class codes.

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

currency Set transaction currency.

Set payment type to ACH or credit card.

Values: 'creditcard' or 'check'

orderid Order id

payment

tax****

tax exempt****

order_description Order Description

Can be set up in merchant control panel under 'Settings'->'Merchant

merchant_defined_field_# Defined Fields'.

Format: merchant defined field 1=Value

ponumber**** Cardholder's purchase order number.

Total tax amount.

Format: x.xx

Set whether cardholder is tax exempt.

Values: 'true' or 'false'

shipping****
Total shipping amount
first_name
Cardholder's first name.
last_name
address1
Card billing address.
city
State
Card billing state.

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

fax Billing fax number.

shipping_id Shipping entry id. If none is provided, one will be created or the billing id

with priority '1' will be updated.

shipping_firstname Shipping first name.
shipping_lastname Shipping last name.
shipping_company Shipping company.
shipping_address1 Shipping address.

shipping_address2 Shipping address, line 2.

shipping_city Shipping city shipping_state Shipping state.

shipping_zip Shipping postal code.
shipping_country Shipping country code.
shipping_phone Shipping phone number.
shipping_fax Shipping fax number.
shipping_email Shipping email address.

- * Always required
- ** Required for credit card transactions
- *** Required for ACH transactions
- **** Required for Level 2 transactions

Customer Vault initiated Sale/Auth/Credit/Offline

Variable Description
username* Username assigned to merchant account.

password* Password assigned to merchant account.

customer_vault_id* Specifies a customer vault id.

Total amount to be charged. For validate, the amount must be omitted or set to

amount 0.00.

Format: x.xx

currency The transaction currency. Format: ISO 4217

If using Multiple MIDs, route to this processor (processor_id is obtained under

Settings->Load Balancing in the Control Panel).

descriptor Set payment descriptor on supported processors.

descriptor_phone Set payment descriptor phone on supported processors.

orderdescription Order description.

orderid Order ID

* Always required

processor_id

Delete Customer Record

Variable Description

customer_vault* Deletes a secure customer vault record. Values: 'delete customer'

customer_vault_id Gracia

Specifies a customer vault id.

username* Username assigned to merchant account.
password* Password assigned to merchant account.

* Always required

Notes:

- If you do not pass a customer_vault_id, our system will randomly generate one. If you include a customer_id and customer_vault_id, they must match.
- You can only pass Credit Card **or** Electronic Check transaction variables.

Partial Payment Information Direct Post API

Request Details

Variable	Description
partial_payments_id	Unique identifier returned when making the original transaction. This should only be used for secondary transactions.
	This variable allows the following two values to be passed to it:
partial_payments	settle_partial: Settles any amount of tender collected (captured partial auth's and approved partial sales) at cut off.
	payment_in_full: Required that any split tendered transaction is collected in-full before settlement gets initiated.
type	This variable can be passed the value 'complete_partial_payment' which will complete a payment_in_full transaction that has not been collected in full. This allows industries that require payment_in_full but subsequently decide to still settle the transaction even though it has not been collected in full.

Response Details

Variable	Description
partial_payment_id	A numeric identifier which is used when submitting subsequent transactions.
partial_payment_balance Returns the payment's remaining balance.	
amount authorized	Provides the amount that was authorized

Examples

Example 1: In this request, if nothing more was done, a transaction for 30.00 would settle at the next cut-off.

Example 3: In this example, payment_in_full was required and two transactions were attempted, but only one collected. The merchant decided to force it out anyways - this transaction would settle at the next cut-off.

Transaction Response Variables Direct Post API

Standard Response

Variable Name	Description
	1 = Transaction Approved
response	2 = Transaction Declined
	3 = Error in transaction data or system error
responsetext	Textual response
authcode	Transaction authorization code.
transactionid	Payment gateway transaction id.
avsresponse	AVS response code (See Appendix 1).
cvvresponse	CVV response code (See Appendix 2).
orderid	The original order id passed in the transaction request.
response_code	Numeric mapping of processor responses (See Appendix 3).

Testing Information Direct Post API

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 username and password for testing with this account:

username: demo password: password

Transaction POST URL

Transaction details should be POST'ed to the following URL:

POST URL: https://secure.metromerchantgateway.com/api/transact.php

Test Data

Transactions can be submitted using the following information:

Credit Card Expiration: 10/25

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

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

Appendix 1 Direct Post API

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 Direct Post API

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
- U Issuer is not certified and/or has not provided Visa encryption keys

Appendix 3 Direct Post API

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.
- 461 Unsupported card type.