

API Definitions

POST /api/accessToken

This API is used to obtain an access token use to authenticate your requests. The API returns an access token and a refresh token. The access token has a lifespan of 30 minutes, during which time you can use the access token to authenticate requests to the API. When the access token expires, you must use the refresh token to obtain a new access token.

Request Fields

apiKey String Required

Use your Account name and secret and concatenate them together separated by a colon “:” character and Base64 encoded to create the apiKey (refer to <https://www.rfc-editor.org/rfc/rfc2617#section-2> for further information).

E.g.:

Sandbox Account: Sandbox

Sandbox Secret: 1234567890

Request should 1) concatenate, 2) base64 encode

1) Sandbox:1234567890

2) U2FuZGJveDoxMjM0NTY3ODkw

You will pass that as you apiKey in the request to /accessToken

The following code snippet can be used to assist in this step:

```
final String authHeader = "Basic " +  
Base64.getEncoder().withoutPadding().encodeToString((userName+":")+password).getBytes());  
request.header("Authorization", authHeader);
```

Generate a new access token from a refresh token

When your access token expires, use the /refreshToken endpoint to generate a new access token/refresh token pair. Send a request to the /refreshToken endpoint with the refresh token in the body of the request. The API returns a new access token and a new refresh token. Use the new access token to authenticate requests to the API and use the refresh token to generate a new access token if needed. You do not need to use the /refreshToken endpoint when your application first loads. It is documented here as part of the authentication workflow.

Response Fields

accessToken String

The access token to be used in your request.

refreshToken String

Used in a subsequent API call if/when your initial token expires.

tokenType String

expiresIn Integer

Number of seconds before this token expires.

message String

Reserved for additional instructions as necessary.

POST /api/refreshToken

When your access token expires, use the /refreshToken endpoint to generate a new access token/refresh token pair. Send a request to the /refreshToken endpoint with the refresh token you received in your last request. The API returns a new access token and a new refresh token. Use the new access token to authenticate requests to the API and use the refresh token to generate a new access token if needed. You do not need to use the /refreshToken endpoint when your application first loads.

Request Fields

refreshToken String **Required**

Use the refreshToken value that was returned in your last token request API call.

Response Fields

accessToken String

The access token to be used in your request.

refreshToken String

Used in a subsequent API call if/when this token expires.

tokenType String

expiresIn Integer

Number of seconds before this token expires.

message String

Reserved for additional instructions as necessary.

PUT /api/v1/transactions/{transactionId}

This API is used to provide immediate transaction events for the specific transactionId. The call is intended to be repeated as the consumer is updating their shopping cart to reflect items added, modified, or removed from their purchase.

Request Header

transactionId String Required

The unique transaction identifier provided via the initiate API call.

Request Body

productCode String Required

Customer's product code.

productDescription String Required

Customer's description of product item.

quantity Integer Required minimum: 0

Number of product items.

amount JSON Array Required

amount number Required minimum: 0

Value of the goods that are being purchased.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this purchased amount.

eventType String Required pattern: add / update / remove

Describes if this transaction event is adding, updating or removing items from the consumers shopping cart.

discount JSON Array Optional

amount number Required minimum: 0

Discounted value of the goods being purchased.

currencyCode **String** **Required** minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this discounted amount.

isGiftCard **Boolean** **Optional** pattern: true / false

Used to reflect if this particular product item being purchased is using a gift card.

productType **String** **Optional** pattern: physical / digital / virtual / unknown

Describes the tangibility characteristics of the goods being purchased.

uniqueCartId **String** **Optional**

This is a unique identifier used to define the item that is being purchased.

Response Fields

apiVersion **String**

Version of the API used for this request.

time **String** format: yyyy-mm-dd hh:mm:ss.sss

The date and time (in UTC) this transaction was processed.

data **JSON Array**

transactionId **String**

The unique identification for this transaction. This Id should be used for all future API calls related to this transaction.

Response Codes

Response Code	Description
200	ok
400	Bad Request
401	Unauthorized
403	Forbidden
412	Precondition Failed
415	Unsupported Media Type
500	Internal Server Error

POST /api/v1/transactions/evaluate/{transactionId}

This API is used to provide the final transaction information once the consumer has submitted their shopping cart items and proceeded to checkout. This call results in the response providing the decision of the transaction.

Request Header

transactionId String Required

The unique transaction identifier provided via the initiate API call.

Request Body

orderNumber String Optional

Customer's order number for this transaction.

customerOrderStatus String Optional

Customer's order status for this transaction.

totalAmount JSON Array Required

amount number Required minimum: 0

Total value of the goods that are being purchased.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this purchased amount.

totalDiscount JSON Array Optional

amount number Required minimum: 0

Total discounted value of the goods being purchased.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this discounted amount.

totalTaxAmount JSON Array Optional

amount number Required minimum: 0

Total discounted value of the goods being purchased.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this discounted amount.

payments JSON Array Required

One or more of the following payment types must be provided.

creditCards JSON Array Conditional

binNumber String Required minimum: 6 maximum: 6 pattern: $^(0|[1-9][0-9]*)\$$

The first 6 digits of the Bank Identification Number on a payment card.

lastFour String Required minimum: 4 maximum: 4 pattern: $^(0|[1-9][0-9]*)\$$

The last 4 digits found on the payment card.

paymentId String Required

The identification number generated to track the transaction.

gateway String Required

The Gateway provider utilized for this transaction.

billingAddress JSON Array Optional

firstName String Required minimum: 1 maximum: 20

The cardholder's first name of the consumer listed on the payment card.

lastName String Required minimum: 1 maximum: 20

The cardholder's last name of the consumer listed on the payment card.

addressLine1 String Required minimum: 1 maximum: 60

The cardholder's address, line 1.

addressLine2 String Optional minimum: 1 maximum: 60

The cardholder's address, line 2.

unitNumber String Optional minimum: 0 maximum: 5

The cardholder's address unit number.

buildingNumber String Optional

The cardholder's address building number.

streetOrBlock String Optional

The cardholder's address street or block indication.

neighborhood String Optional

The cardholder's address neighborhood indication.

city String Required minimum: 1 maximum: 30

The cardholder's city.

regionCode String Required minimum: 1 maximum: 30

The cardholder's region name. For U.S. addresses, use the two-character state code.

postalCode String Required minimum: 1 maximum: 10

The cardholder's zip or postal code.

countryCode String Required minimum: 2 maximum: 2

The cardholder's two-character country code. Use the ISO-3166 official country codes.

amount JSON Array Required

amount number Required minimum: 0

The amount of money sent for authorization.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this discounted amount.

responseCodes JSON Array Optional

One of the following options must be provided.

addressVerification String Conditional

The result of your acquirer's address verification system (AVS) check.

authorization String Conditional

The result from the authorization transaction.

cardVerificationValue String Conditional

The result of your acquirer's card verification value (CVV) check.

giftCards JSON Array Conditional

billingAddress JSON Array Optional

firstName String Required minimum: 1 maximum: 20

The first name of the consumer of this gift card.

lastName String Required minimum: 1 maximum: 20

The last name of the consumer of this gift card.

addressLine1 String Required minimum: 1 maximum: 60

The gift card holder's address, line 1.

addressLine2 String Optional minimum: 1 maximum: 60

The gift card holder's address, line 2.

unitNumber String Optional minimum: 0 maximum: 5

The gift card holder's address unit number.

buildingNumber String Optional

The gift card holder's address building number.

streetOrBlock String Optional

The gift card holder's address street or block indication.

neighborhood String Optional

The gift card holder's address neighborhood indication.

city String Required minimum: 1 maximum: 30

The gift card holder's city.

regionCode String Required minimum: 1 maximum: 30

The gift card holder's region name. For U.S. addresses, use the two-character state code.

postalCode String Required minimum: 1 maximum: 10

The gift card holder's zip or postal code.

countryCode String Required minimum: 2 maximum: 2

The gift card holder's two-character country code. Use the ISO-3166 official country codes.

amount JSON Array Required

amount number Required minimum: 0

The amount of money sent for authorization.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this discounted amount.

merchantName String Required

The name of the merchant.

brandName String Required pattern: Amex / Discover / Visa / MC

The brand name of the card issuer.

paypal JSON Array Conditional

billingAddress JSON Array Required

firstName String Required minimum: 1 maximum: 20

The cardholder's first name of the consumer listed on the paypal account.

lastName String Required minimum: 1 maximum: 20

The cardholder's last name of the consumer listed on the paypal account.

addressLine1 String Required minimum: 1 maximum: 60

The paypal account holder's address, line 1.

addressLine2 String Optional minimum: 1 maximum: 60

The paypal account holder's address, line 2.

unitNumber String Optional minimum: 0 maximum: 5

The paypal account holder's address unit number.

buildingNumber String Optional

The paypal account holder's address building number.

streetOrBlock String Optional

The paypal account holder's address street or block indication.

neighborhood String Optional

The paypal account holder's address neighborhood indication.

city String Required minimum: 1 maximum: 30

The paypal account holder's city.

regionCode String Required minimum: 1 maximum: 30

The paypal account holder's region name. For U.S. addresses, use the two-character state code.

postalCode String Required minimum: 1 maximum: 10

The paypal account holder's zip or postal code.

countryCode String Required minimum: 2 maximum: 2

The PayPal account holder's two-character country code. Use the ISO-3166 official country codes.

amount JSON Array Required

amount number Required minimum: 0

The amount of money sent for authorization.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this discounted amount.

paypalPayerId String Required

The PayPal account identification.

shipping JSON Array Required

deliveryMethod String Required pattern: Mail / Physical / Virtual

The type of delivery method used.

carrier String Optional pattern: UPS / FedEx / DHL / Postal Company / Other

The carrier used for the transaction.

date String Optional format: yyyy-mm-dd

Customer's order number for this transaction.

shippingClass String Optional pattern: Air / Sea / Rail / Freight / Ground / Other

The shipping method for this transaction.

amount JSON Array Required

amount number Required minimum: 0

The amount of money sent for authorization.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this discounted amount.

shippingAddress JSON Array Optional

firstName String Required minimum: 1 maximum: 20

The contact's first name for this shipping address.

lastName String Required minimum: 1 maximum: 20

The contact's last name for this shipping address.

addressLine1 String Required minimum: 1 maximum: 60

The shipping address, line 1.

addressLine2 String Optional minimum: 1 maximum: 60

The shipping address, line 2.

unitNumber String Optional minimum: 0 maximum: 5

The shipping address unit number.

buildingNumber String Optional

The shipping address building number.

streetOrBlock String Optional

The shipping address street or block indication.

neighborhood String Optional

The shipping address neighborhood indication.

city String Required minimum: 1 maximum: 30

The shipping address city.

regionCode String Required minimum: 1 maximum: 30

The shipping address region name. For U.S. addresses, use the two-character state code.

postalCode String Required minimum: 1 maximum: 10

The shipping address zip or postal code.

countryCode String Required minimum: 2 maximum: 2

The shipping address two-character country code. Use the ISO-3166 official country codes.

pickupLocation String Optional pattern: Drop-off / Curbside / Store / Warehouse / Other

The pickup location for this transaction.

pickupTime String Optional format: hh:mm

The time of pickup for this transaction.

phoneNumber String Optional format: 111-111-1234

The contact phone number for this transaction.

email String Optional

The contact email address for this transaction.

customData JSON Array Optional

This array allows for passing and validation of custom fields.

key String Required

value String Required

valueType String Required pattern: Boolean / Double / Integer / LocalDateTime / String

isRequired Boolean Required pattern: true / false

minRange Integer Optional Note: Required only for Double / Integer / String. Ignored for others.

maxRange String Optional Note: Required only for Double / Integer / String. Ignored for others.

description String Required

displayName String Required

transactionEvaluationStep String Required pattern: OneStepPostAuth / PreAuth / PostAuth

An indicator of which step in the evaluation process this call is associated with. There are two process options available for how this API can be utilized: one-step or two-step. The recommended option is the two-step as this option provides cart updates as they are happening, prior to the bank authorization which results in ongoing feedback and a faster evaluation decision. In the two-step process the first evaluate API call is made prior to the payment gateway/issuer authorization and is indicated via the PreAuth indicator. The second API call in the two-step process occurs once you have received the payment gateway/issuer authorization. This second API call in the two-step process is indicated by selecting the PostAuth designation in this field. In the one-step option this API is called using the OneStepPostAuth indication and is issued after the payment gateway/issuer has authorized the transaction

Response Fields

apiVersion String

Version of the API used for this request.

time String format: yyyy-mm-dd hh:mm:ss.sss

The date and time (in UTC) this transaction was processed.

data JSON Array

transactionId String

The unique identification for this transaction. This Id should be used for all future API calls related to this transaction.

score Integer

For Payment Protect, returns the risk score associated with the transaction. Valid values are 0-100; the higher the score, the greater the fraud risk associated with the transaction.

evaluationDecision String

The returned response is first dependent on the product being used:

Payment Guarantee: Guaranteeable / Guaranteed / Not Guaranteed

Payment Protect: Very Safe, Safe, Moderate, Risky, Very Risky

scoreInsights JSON Array

description String

These are positive and negative reasons that elaborate on the decision taken for this transaction.

Response Codes

Response Code	Description
200	ok
400	Bad Request
401	Unauthorized
403	Forbidden
412	Precondition Failed
415	Unsupported Media Type
500	Internal Server Error

PATCH /api/v1/transactions/transactionStatus

This API is used to provide the final disposition status of this transaction.

Request Body

paymentStatus String **Required** pattern: Accepted / Captured / Declined / Issuer Declined / Voided

The payment status for this transaction.

orderNumber String Required

Customer's order number for this transaction.

transactionId String Required

The unique identification for this transaction.

orderStatus String Required pattern: Cancelled / Paid / Partially Paid / Fulfilled

The final order status for this transaction.

comments String Optional

Any optional comments that are significant and relative to this transaction and its order status.

Response Fields

apiVersion String

Version of the API used for this request.

time String format: yyyy-mm-dd hh:mm:ss.sss

The date and time (in UTC) this transaction was processed.

data JSON Array

orderStatus String pattern: Approved / Cancelled / Created / Declined / Error / Paid / Pending

The status of the for this transaction.

paymentStatus String

The payment status for this transaction.

Response Codes

Response Code	Description
200	ok
400	Bad Request
401	Unauthorized
403	Forbidden
412	Precondition Failed
415	Unsupported Media Type
500	Internal Server Error

Chargeback Submission

POST /api/v1/transactions/event/chargeback

This API is used to submit chargeback information related to a transaction. Chargeback submissions must be provided for guaranteed transactions via the Payment Guarantee product if the subscriber wishes a reimbursement. Chargeback submissions for other events can and should be submitted for improved tracking purposes. Subscribers submitting these events will be able to view and manage these through the Vesta Console.

Request Header

customerId Integer Optional

The customer identifier.

Request Body

orderNumber String Optional

Original customer order number for the chargeback claim.

transactionId String Required

The unique identification for this transaction.

chargebackId String Optional

The chargeback identification for this transaction.

paymentId String Required

The original payment identification for the chargeback claim.

date String Required format: yyyy-mm-dd

The date this chargeback was claimed.

amount JSON Array Required

amount number Required minimum: 0

The amount of money for this chargeback claim.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this chargeback claim.

reasonCode String Required

The acquirer issued reason code for the chargeback. Available values will depend on the merchant/acquirer account.

description String Required

The description for the chargeback reason.

status String Required pattern: Refunded / Partially Refunded / Disputed / Represented / Chargeback Accepted / Chargeback Reversed / Charged Back

The current status for the chargeback claim.

purchaserName String Optional

The name of the purchaser for the chargeback claim.

fee JSON Array Optional

amount number Required minimum: 0

The fee amount of servicing this chargeback claim.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this chargeback amount.

additionalFee JSON Array Optional

amount number Required minimum: 0

The amount of additional fees for this chargeback claim.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this additional chargeback fee amount.

claimedBy String Optional

The name of the individual who claimed for the chargeback claim.

caseNumber String Optional

The acquirer generated case number for the chargeback claim.

customerId Integer Optional

The customer identifier associated to the original transaction.

attachments JSON Array Optional

attachmentName String Optional

The name of the attachment that provides evidence of the chargeback claim.

attachmentURL String Optional

The URL for the file that provides evidence of the chargeback claim.

Response Fields

apiVersion String

Version of the API used for this request.

time String format: yyyy-mm-dd hh:mm:ss.sss

The date and time (in UTC) this transaction was processed.

data JSON Array

message String

A brief message describing the result of the chargeback request.

Response Codes

Response Code	Description
200	ok
400	Bad Request
401	Unauthorized
403	Forbidden
412	Precondition Failed
415	Unsupported Media Type
500	Internal Server Error

Refund Submission

POST /api/v1/transactions/event/refunds

This API is used to submit refund information, such as refunded or voided, related to a transaction. Subscribers submitting these events will be able to view and manage these through the Vesta Console.

Request Body

orderNumber String Optional

Original customer order number for the refund notice.

transactionId String Required

The Vesta generated unique identification for the original transaction.

refundId String Required

The refund identification for this transaction.

paymentId String Required

The original payment identification for the refund notice.

date String Required format: yyyy-mm-dd

The date this refund was claimed.

amount JSON Array Required

amount number Required minimum: 0

The amount of money for this refund.

currencyCode String Required minimum: 3 maximum: 3

Three letter ISO 4217 currency code for this refund.

description String Required

The description for the refund.

Response Fields

apiVersion String

Version of the API used for this request.

time String format: yyyy-mm-dd hh:mm:ss.sss

The date and time (in UTC) this transaction was processed.

data JSON Array

message String

A brief message describing the result of the chargeback request.

Response Codes

Response Code	Description
200	ok
400	Bad Request

401	Unauthorized
403	Forbidden
412	Precondition Failed
415	Unsupported Media Type
500	Internal Server Error