Braintree Connector API Reference

Configurations

Config

Default configuration

Parameters

Name	Type	Description	Default Value	Required
Name	String	The name for this configuration. Connectors reference the configuration with this name.		**x**
Connection	Connection	The connection types that can be provided to this configuration.		**x**
Expiration Policy	Expiration Policy	Configures the minimum amount of time that a dynamic configuration instance can remain idle before the runtime considers it eligible for expiration. This does not mean that the platform will expire the instance at the exact moment that it becomes eligible. The runtime will actually purge the instances when it sees it fit.		

Connection Types

Connection

This class (as it's name implies) provides connection instances and the funcionality to disconnect and validate those connections. All connection related parameters (values required in order to create a

connection) must be declared in the connection providers.

This particular example is a PoolingConnectionProvider which declares that connections resolved by this provider will be pooled and reused.

Parameters

Name	Type	Description	Default Value	Required
Merchant ID	String	The merchant account ID		**x**
Public Key	String	Associated public key with merchant account		**x**
Private Key	String	Associated private key with merchant account		**x**
Environment	String	Operation execution environment. Examples: sandbox, development, qa, production	production	
Reconnection	Reconnection	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		
Pooling Profile	Pooling Profile	Characteristics of the connection pool		

Associated Operations

- Customer - Create
- PaymentMethod - Create
- Customer - Delete
- PaymentMethod - Delete
- Customer - Find
- PaymentMethod - Find
- Transaction - Find
- Client Token - Get
- Transaction - Sale
- Customer - Search
- Transaction - Search
- Transaction - Submit For Partial Settlement

Operations

Customer - Create

`<braintree:create-customer>`

Operation to create customer. You can create a customer by itself, with a payment method, or with a credit card with a billing address.

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		x
Payment Method	Payment Card Information	A credit or debit payment method details.		
Payment Method Options	Payment Method Options	Payment method options.		
Address	Address ⬚	A billing address associated with a specific credit card. The maximum number of addresses per customer is 50.		
ID	String	A string value that will represent this specific customer in your Vault. 36 character maximum; must be unique within your Vault; valid characters are letters, numbers, -, and _; the words "all" and "new" currently can't be used. If not specified on creation, the gateway will generate an alphanumeric ID that can be accessed on the result. The generated IDs will never start with a leading 0 and are case insensitive.		
First Name	String	The first name. The first name value must be less than or		

		equal to 255 characters.
Last Name	String	The last name. The last name value must be less than or equal to 255 characters.
Email	String	Email address composed of ASCII characters.
Phone	String	Phone number. Maximum 255 characters.
fax	String	Fax number. Maximum 255 characters.
Company	String	Company name. Maximum 255 characters.
Website	String	Website URL. Must be less than or equal to 255 characters. Website must be well-formed. The URL scheme is optional.
Token	String	An alphanumeric value that references a specific payment method stored in your Vault. Must be less than or equal to 36 characters. If using a custom integration, you can specify what you want the token to be. If not specified, the gateway will generate one that can be accessed on the result.
Nonce	String	One-time-use reference to payment information provided by your customer, such as a credit card or PayPal account. When passed on customer create, it creates a payment method associated with the new customer.
Device Data	String	Customer device information. Pass this value only if you have Advanced Fraud Tools enabled and are adding credit card data to your Vault. Be sure to provide the full string received

		from the Braintree.	
Custom Fields	Object	A collection of custom field/value pairs. Fields and values must be less than 255 characters. You must set up each custom field in the Control Panel ⬜ prior to passing it with a request.	
Device Session Id	String		
Fraud Merchant Id	String		
Risk Data	RiskData ⬜	Customer device information, which is sent directly to supported processors for fraud analysis. These fields are automatically populated if using Advanced Fraud Tools ⬜. Currently only available when processing American Express via Amex Direct.	
Target Variable	String	The name of a variable on which the operation's output will be placed	
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]
Reconnection Strategy	• Reconnect • Reconnect Forever	A retry strategy in case of connectivity errors	

Output

Type	Result ⬜

For Configurations.

- Config

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:CUSTOMER_NOT_FOUND

PaymentMethod - Create

`<braintree:create-payment-method>`

Operation to create payment method for existing customers

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Customer Id	String	The customer's unique Id		**x**
Payment Method Nonce	String	The payment method nonce		**x**
Payment Method	Payment Card Information	A credit or debit payment method details.		
Payment Method Options	Payment Method Options	Payment method options.		
Billing Address	Address ☐	A billing address associated with a specific credit card. The maximum number of addresses per customer is 50.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection	Reconnect	A retry strategy in case of		

Strategy	• Reconnect Forever	connectivity errors

Output

Type	Result

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:PAYMENT_METHOD_NOT_FOUND

Customer - Delete

`<braintree:delete-customer>`

Operation to delete customer. You can delete a customer using its ID. When a customer is deleted, all associated payment methods are also deleted, and all associated recurring billing subscriptions are canceled.

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Customer Id	String	The customer Id to delete.		**x**
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection	Reconnect	A retry strategy in case of		

| Strategy | • Reconnect Forever | connectivity errors | | |

Output

Type	Result

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:CUSTOMER_NOT_FOUND

PaymentMethod - Delete

`<braintree:delete-payment-method>`

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Payment Method Token	String	The alphanumeric value that references a specific payment method stored in your Vault.		**x**
Revoke All grants	Boolean	When true, all grants of the payment method to other merchants will automatically be revoked. The default value is false.	false	
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the	#[payload]	

		outcome of that expression will be stored in the target variable
Reconnection Strategy	• Reconnect • Reconnect Forever	A retry strategy in case of connectivity errors

Output

Type	Result □

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:PAYMENT_METHOD_NOT_FOUND

Customer - Find

`<braintree:find-customer>`

Find operation look up a single customer using its ID. If the customer can't be found, it will throw a NotFoundException.

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Customer Id	String	The customer Id to find.		**x**
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will	#[payload]	

		be stored in the target variable	
Reconnection Strategy	• Reconnect • Reconnect Forever	A retry strategy in case of connectivity errors	

Output

Type	Customer

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:CUSTOMER_NOT_FOUND

PaymentMethod - Find

`<braintree:find-payment-method>`

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Payment Method Token	String	The alphanumeric value that references a specific payment method stored in your Vault.		**x**
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	

| Reconnection Strategy | • Reconnect
• Reconnect Forever | A retry strategy in case of connectivity errors | | |

Output

Type	PaymentMethod

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:PAYMENT_METHOD_NOT_FOUND

Transaction - Find

`<braintree:find-transaction>`

Find Transaction operation returns the transaction with the specified Transaction Id

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Transaction Id	String	The unique transaction identifier.		**x**
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection	Reconnect	A retry strategy in case of		

Strategy	• Reconnect Forever	connectivity errors	

Output

Type	transaction ☐

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION

Client Token - Get

`<braintree:get-client-token>`

Operation to generate token which contains all authorization and configuration information.

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Client Token Options Request	Client Token Request Options	Generate token request options.		
Output Mime Type	String	The mime type of the payload that this operation outputs.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	

| Reconnection Strategy | • Reconnect
• Reconnect Forever | A retry strategy in case of connectivity errors |

Output

| **Type** | String |

For Configurations.

- Config

Throws

- BRAINTREE:CONNECTION_FAILED
- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:FAILED_TO_GENERATE_TOKEN
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION

Transaction - Sale

`<braintree:sale>`

To create a transaction, you must include an amount() and either a paymentMethodNonce(), a paymentMethodToken(), or a customerId(). Passing a customerId is equivalent to passing the paymentMethodToken of the customer's default payment method.

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Customer	One of: • Existing Customer • New Customer	SaleCustomer customer Customer details		
Billing Address	One of: Existing Billing Address New Billing	SaleBillingAddress salebillingAddress Billing address details, either new billing address or existing billing address id		

	Address		
Shipping Details	Sale Shipping Details	SaleShippingDetails saleShippingDetails Shipping amount details	
Shipping Address	One of: Existing Shipping Address New Shipping Address	SaleShippingAddress saleshippingAddress Shipping address details, either new shipping address or existing shipping address id	
Sale Payment Options	One of: • Payment Method Token • Card Details	SalePaymentMode salePaymentOptions SalePaymentMode is either paymentMethodToken or paymentMethodNonce and credit card	
Line Item	Sale Line Item	SaleLineItem lineItem The line items for this transaction. It can include up to 249 line items. If your merchant account has been configured Level 3 processing this field will be passed to processor on your behalf.	
3D Secure	Sale Three D Secure Pass Thru	SaleThreeDSecurePassThru threeDSecure Results of a merchant-performed 3D Secure authentication. You will only need to use these fields if you've performed your own integration with a 3D Secure MPI provider (e.g. Cardinal Centinel).	
Descriptor	Transaction Descriptor	TransactionDescriptor descriptor	
Options	Sale Options	SaleOptions saleOptions Various options for sale transaction	
Amount	String	The billing amount of the request. This value must be greater than 0, and must match the currency format of the merchant account. Can only contain numbers and one	x

			decimal point (e.g. x.xx). Can't be greater than the maximum allowed by the processor. Contact us for your specific limit.
Order Id	String		Use this field to pass additional information about the transaction. On PayPal transactions, this field maps to the PayPal invoice number. PayPal invoice numbers must be unique in your PayPal business account. Maximum 255 characters or 127 for PayPal transactions.
Purchase Order Number	String		A Level 2 field that can be used to pass a purchase order identification value of up to 12 ASCII characters for AIB and 17 ASCII characters for all other processors.
Device Data	String		Customer device information. Required in the following cases: - When using Advanced Fraud Tools - When creating one-time Vaulted PayPal transactions - When creating Venmo transactions This value will contain a Fraud Merchant ID as the unique, numeric identifier for a Kount account and a Device Session ID as the unique identifier for a customer device. For PayPal and Venmo transactions, this value will also include a PayPal Correlation ID. Provide the full string received from the Braintree client SDK.
Device Session Id	String		A unique alphanumeric identifier used by our Advanced Fraud Tools to link a device to transactions.
Discount Amount	String		A Level 3 field that specifies the discount amount that was included in the total transaction amount. It can't be negative, and it does not add to the total transaction amount.

Tax Exempt	Boolean	A Level 2 field that indicates whether or not the transaction should be considered eligible for tax exemption. This does not affect the total transaction amount.	false
Tax Amount	String	A Level 2 field that specifies the amount of tax that was included in the total transaction amount. The value can't be negative, and in most cases, it must be greater than zero in order to qualify for lower interchange rates. It does not add to the total transaction amount.	
Service Fee Amount	String	The portion of a sub-merchant's transaction revenue that is routed to the master merchant account. If set, this value must be greater than or equal to 0, must match the appropriate currency format, and can't exceed the transaction amount. Available to Braintree Marketplace merchants. See charging a service fee and holding funds in escrow on Braintree Marketplace transactions.	
Merchant Account Id	String	The merchant account ID used to create a transaction Currency is also determined by merchant account ID. If no merchant account ID is specified, we will use your default merchant account.	
Custom Fields	Object	A collection of custom field/value pairs. Fields and values must be formatted as strings or integers. Maximum 255 characters. You must set up each custom field in the Control Panel prior to passing it with a request. Querying this value returns a collection of custom field values stored on the transaction object.	
Transaction Source	String	Specifies the source of the transaction. The value passed depends on whether the	

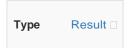|		transaction is initiated by the merchant or the customer. If the transaction is an ecommerce transaction initiated by the customer, no value is passed. Accepted values for merchant-initiated transactions: recurring = Transactions for subsequent recurring payments (e.g. subscriptions with a fixed amount on a predefined schedule). unscheduled = Transactions for unscheduled payments that are not recurring on a predefined schedule or amount (e.g. balance top-up). Formerly merchant. Accepted values for customer-initiated transactions: recurring_first = Transactions that represent the first in a series of recurring payments or subscription. moto = Transactions that are initiated by the customer via the merchant by mail or telephone.
Previous Network Transaction Id	String	Network transaction identifier issued by the card brand network during a previous transaction. Currently only applicable for Visa payment methods. Visa provides network transaction identifiers to improve authorization approval rates for stored credential transactions.
Vault Status	Enumeration, one of: • WILL_VAULT • VAULTED	The option indicates the vaulted status of the externally vaulted payment method. Accepted values: vaulted = Indicates the payment method is already stored on behalf of the customer. will_vault = Indicates the payment method is intended to be vaulted upon successful processing of the transaction.
Browser	String	
IP	String	
Target Variable	String	The name of a variable on which the operation's output will be placed

Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]
Reconnection Strategy	Reconnect Reconnect Forever	A retry strategy in case of connectivity errors	

Output

Type	Result ☐

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION

Customer - Search

`<braintree:search-customer>`

Search customer operation returns a collection of Customer response objects using the search fields

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		x
Customer	Search Customer	Customer search fields		
Address Fields	Array of Address Information	Customer address information to search for.		
Payment Method Fields	Array of Payment Method Information	Payment method information to search for.		

Limit	Number	Limit the number of search results. (0 for no limit)	100
Target Variable	String	The name of a variable on which the operation's output will be placed	
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]
Reconnection Strategy	• Reconnect • Reconnect Forever	A retry strategy in case of connectivity errors	

Output

Type	Array of Customer ⬚

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:CUSTOMER_NOT_FOUND

Transaction - Search

`<braintree:search-transaction>`

Search transaction operation returns a collection of Transaction response objects using the search fields

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		x

Transaction	Search Transaction	Search transaction fields	
Date Range Parameter	Date Range Parameters	Date/time range transaction parameters	
Search Parameters	Search Parameters	Search field transaction parameters	
Filter Parameters	Filter Parameters	Multiple values transaction parameters.	
Limit	Number	Limit the number of search results. Set 0 for no limit.	100
Target Variable	String	The name of a variable on which the operation's output will be placed	
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]
Reconnection Strategy	Reconnect Reconnect Forever	A retry strategy in case of connectivity errors	

Output

Type	Array of Transaction ⬚

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION

Transaction - Submit For Partial Settlement

`<braintree:submit-for-partial-settlement>`

Submit for Partial Settlement operation is used to settle multiple partial amounts against the same authorization. You can create a parent authorization for the entire order amount and when you?re ready to send each portion of the order, you can charge the customer for that portion in a separate child transaction.

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Authorized Transaction	String	The transaction ID of the parent authorization. You can only submit transactions that have a status of AUTHORIZED for partial settlement.		**x**
Amount	String	An amount to submit for partial settlement against the parent authorization transaction. Must be greater than 0. You can make multiple partial settlement calls as long as the cumulative amount to be partially settled is less than or equal to the amount authorized by the parent transaction.		**x**
Order Id	String	The unique order identifier, used to pass additional information about the transaction.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection Strategy	Reconnect Reconnect Forever	A retry strategy in case of connectivity errors		

Output

Type	Result ☐

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
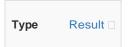
Transaction - Submit For Settlement

`<braintree:submit-for-settlement>`

Submit for Settlement operation explicitly submit the specified transaction for settlement. It collects the money from an authorized sale by submitting the transaction for settlement

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Transaction Id	String	The unique transaction identifier. You can only submit transactions that have a status of authorized for settlement.		**x**
Amount	String	An amount to submit for settlement. Must be greater than 0. If you want to settle for an amount that is different from the total authorization amount, you can specify the amount to settle. If you do not specify, the entire amount will be settled.		
Order Id	String	The unique order identifier, used to pass additional information about the transaction.		
Name	String	The value in the business name field of a customer's statement.		

Phone	String	The value in the phone number field of a customer's statement.	
Url	String	The value in the URL/web address field of a customer's statement.	
Target Variable	String	The name of a variable on which the operation's output will be placed	
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]
Reconnection Strategy	• Reconnect • Reconnect Forever	A retry strategy in case of connectivity errors	

Output

Type	Result ☐

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION

Customer - Update

`<braintree:update-customer>`

Operation to update customer. To update a customer, use its ID along with new attributes. The same validations apply as when creating a customer. Any attribute not passed will remain unchanged.

Parameters

Name	Type	Description	Default Value	Required

Configuration	String	The name of the configuration to use.	**x**
Customer Id	String	The customer Id to update.	**x**
Payment Method	Payment Card Information	A credit or debit payment method details.	
Payment Method Options	Payment Method Options	Payment method options.	
Address	Address □	A billing address associated with a specific credit card. The maximum number of addresses per customer is 50.	
ID	String	A string value that will represent this specific customer in your Vault. 36 character maximum; must be unique within your Vault; valid characters are letters, numbers, -, and _; the words "all" and "new" currently can't be used. If not specified on creation, the gateway will generate an alphanumeric ID that can be accessed on the result. The generated IDs will never start with a leading 0 and are case insensitive.	
First Name	String	The first name. The first name value must be less than or equal to 255 characters.	
Last Name	String	The last name. The last name value must be less than or equal to 255 characters.	
Email	String	Email address composed of ASCII characters.	
Phone	String	Phone number. Maximum 255 characters.	
fax	String	Fax number. Maximum 255 characters.	

Company	String	Company name. Maximum 255 characters.
Website	String	Website URL. Must be less than or equal to 255 characters. Website must be well-formed. The URL scheme is optional.
Token	String	An alphanumeric value that references a specific payment method stored in your Vault. Must be less than or equal to 36 characters. If using a custom integration, you can specify what you want the token to be. If not specified, the gateway will generate one that can be accessed on the result.
Nonce	String	One-time-use reference to payment information provided by your customer, such as a credit card or PayPal account. When passed on customer create, it creates a payment method associated with the new customer.
Device Data	String	Customer device information. Pass this value only if you have Advanced Fraud Tools enabled and are adding credit card data to your Vault. Be sure to provide the full string received from the Braintree.
Custom Fields	Object	A collection of custom field/value pairs. Fields and values must be less than 255 characters. You must set up each custom field in the Control Panel ⧉ prior to passing it with a request.
Device Session Id	String	
Fraud Merchant Id	String	

Risk Data	Risk Data ☐	Customer device information, which is sent directly to supported processors for fraud analysis. These fields are automatically populated if using Advanced Fraud Tools ☐. Currently only available when processing American Express via Amex Direct.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection Strategy	Reconnect Reconnect Forever	A retry strategy in case of connectivity errors		

Output

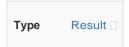| **Type**	Result ☐

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED
- BRAINTREE:AUTHENTICATION
- BRAINTREE:CUSTOMER_NOT_FOUND

PaymentMethod - Update

`<braintree:update-payment-method>`

Parameters

Name	Type	Description	Default Value	Required

Configuration	String	The name of the configuration to use.		**x**
Billing Address	Address ☐	A billing address associated with a specific customer ID. It can be further associated with a specific payment method. The maximum number of addresses per customer is 50.		
Update Payment Method Details	Update Payment Method	Payment method details		**x**
Updatepayment Method	Payment Card Information	A credit or debit payment method details.		
Update Payment Method Options	Update Payment Method Options	Payment method options.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection Strategy	• Reconnect • Reconnect Forever	A retry strategy in case of connectivity errors		

Output

Type	Result ☐

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION
- BRAINTREE:RETRY_EXHAUSTED

- BRAINTREE:AUTHENTICATION
- BRAINTREE:PAYMENT_METHOD_NOT_FOUND

Transaction - Void

`<braintree:void-transaction>`

Void Transaction operation undo a transaction before it settles. It cancels the transfer of funds before the transaction settles. You can only void transactions that have a status() of: AUTHORIZED, SUBMITTED_FOR_SETTLEMENT, SETTLEMENT_PENDING (only for certain PayPal transactions)

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Transaction Id	String	The unique transaction identifier.		**x**
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection Strategy	Reconnect Reconnect Forever	A retry strategy in case of connectivity errors		

Output

Type	Result ☐

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION
- BRAINTREE:CONNECTIVITY
- BRAINTREE:AUTHORIZATION

BRAINTREE:RETRY_EXHAUSTED

- BRAINTREE:AUTHENTICATION

Transaction - Refund

`<braintree:refund-transaction>`

Refund transaction operation refunds the specified transaction that have a status of settled or settling. If the transaction has not yet begun settlement, use 'Void Transaction' operation instead.

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		**x**
Transaction Id	String	The unique transaction identifier. You can only refund the transactions that have a status of settled or settling.		**x**
Amount	String	The amount to refund. This value must be greater than 0, and can't exceed the total amount of the transaction. If you do not specify an amount to refund, the entire transaction amount will be refunded		
Order Id	String	The unique order identifier, use this parameter if you would like to pass different orderId than that of the original transaction.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection Strategy	Reconnect Reconnect Forever	A retry strategy in case of connectivity errors		

Output

Type	Result

For Configurations.

- Config

Throws

- BRAINTREE:EXECUTION

- BRAINTREE:CONNECTIVITY

- BRAINTREE:AUTHORIZATION

- BRAINTREE:RETRY_EXHAUSTED

- BRAINTREE:AUTHENTICATION

Types

Reconnection

Field	Type	Description	Default Value	Required
Fails Deployment	Boolean	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		
Reconnection Strategy	• Reconnect • Reconnect Forever	The reconnection strategy to use		

Reconnect

Field	Type	Description	Default Value	Required
Frequency	Number	How often (in ms) to reconnect		
Count	Number	How many reconnection attempts to make		

Reconnect Forever

Field	Type	Description	Default Value	Required
Frequency	Number	How often (in ms) to reconnect		

Pooling Profile

Field	Type	Description	Default Value	Required
Max Active	Number	Controls the maximum number of Mule components that can be borrowed from a session at one time. When set to a negative value, there is no limit to the number of components that may be active at one time. When maxActive is exceeded, the pool is said to be exhausted.		
Max Idle	Number	Controls the maximum number of Mule components that can sit idle in the pool at any time. When set to a negative value, there is no limit to the number of Mule components that may be idle at one time.		
Max Wait	Number	Specifies the number of milliseconds to wait for a pooled component to become available when the pool is exhausted and the exhaustedAction is set to WHEN_EXHAUSTED_WAIT.		
Min Eviction Millis	Number	Determines the minimum amount of time an object may sit idle in the pool before it is eligible for eviction. When non-positive, no objects will be evicted from the pool due to idle time alone.		
Eviction Check Interval Millis	Number	Specifies the number of milliseconds between runs of the object evictor. When non-positive, no object evictor is executed.		

Exhausted Action	Enumeration, one of: • WHEN_EXHAUSTED_GROW • WHEN_EXHAUSTED_WAIT • WHEN_EXHAUSTED_FAIL	Specifies the behavior of the Mule component pool when the pool is exhausted. Possible values are: "WHEN_EXHAUSTED_FAIL", which will throw a NoSuchElementException, "WHEN_EXHAUSTED_WAIT", which will block by invoking Object.wait(long) until a new or idle object is available, or WHEN_EXHAUSTED_GROW, which will create a new Mule instance and return it, essentially making maxActive meaningless. If a positive maxWait value is supplied, it will block for at most that many milliseconds, after which a NoSuchElementException will be thrown. If maxThreadWait is a negative value, it will block indefinitely.		
Initialisation Policy	Enumeration, one of: INITIALISE_NONE INITIALISE_ONE INITIALISE_ALL	Determines how components in a pool should be initialized. The possible values are: INITIALISE_NONE (will not load any components into the pool on startup), INITIALISE_ONE (will load one initial component into the pool on startup), or INITIALISE_ALL (will load all components in the pool on startup)		
Disabled	Boolean	Whether pooling should be disabled		

Expiration Policy

Field	Type	Description	Default Value	Required
Max Idle Time	Number	A scalar time value for the maximum amount of time a dynamic configuration instance should be allowed to be idle before it's considered eligible for expiration		

Time Unit	Enumeration, one of:	A time unit that qualifies the maxIdleTime attribute
	• NANOSECONDS	
	• MICROSECONDS	
	• MILLISECONDS	
	• SECONDS	
	• MINUTES	
	• HOURS	
	• DAYS	

Payment Card Information

Field	Type	Description	Default Value	Required
Billing Address Id	String	Provide billing address Id to use existing billing address with payment method.		
Device Data	String	Customer device information. Pass this value only if you have Advanced Fraud Tools enabled and are adding credit card data to your Vault.		
Cardholder Name	String	The name associated with the credit card. Must be less than or equal to 175 characters.		
Number	String	Typically requires The PCI SAQ D compliance Braintree recommend using paymentMethodNonce to avoid any PCI concerns with raw credit card data being present on your server. The 12-19 digit value on a credit card consisting of a bank identification number (BIN) and primary account number (PAN).		
Cvv	String	A 3 or 4 digit card verification value assigned to a credit card. The CVV will never be stored in the gateway, but it can be provided with one-time requests to verify the card.		
Expiration Month	String	The expiration month of a credit card, formatted MM. May be used with expirationYear, and instead of expirationDate.		
Expiration Year	String	The two or four digit year associated with a credit card, formatted YYYY or YY. May be used with expirationMonth, and instead of expirationDate.		

Payment Method Options

Field	Type	Description	Default Value	Required

Fail On Duplicate Payment Method	Boolean	If this option is passed and the same payment method has already been added to the Vault for any customer, the request will fail. This option will be ignored for PayPal, Pay with Venmo, Apple Pay, Google Pay, and Samsung Pay payment methods.	false
Token	String	An alphanumeric value that references a specific payment method stored in your Vault. Must be less than or equal to 36 characters. If using a custom integration, you can specify what you want the token to be. If not specified, the gateway will generate one that can be accessed on the result.	
Make Default	Boolean	This option makes the specified payment method the default for the customer.	false
Verification Amount	String	Specify a non-negative amount that you want to use to verify a card. If you do not pass this option, the gateway will automatically use a verification amount of $0 or $1, depending on the processor and/or card type.	
Verification Merchant Account Id	String	Specify the merchant account ID that you want to use to verify a card. Can't be a Braintree Marketplace sub-merchant account.	
Verify Card	Boolean	If the payment method is a credit card, this option prompts the gateway to verify the card's number and expiration date. It also verifies the AVS and CVV information if you've enabled AVS and CVV rules.	false

Client Token Request Options

Field	Type	Description	Default Value	Required
Customer Id	String	A string value representing an existing customer in your Vault. Passing this option allows customers to manage their vaulted payment methods via the Drop-in UI		
Merchant Account Id	String	Specify the merchant account ID that you want to use to generate the client token. If no merchant account ID is specified, Braintree will use your default merchant account.		
Version	Number			
Fail On Duplicate Payment Method	Boolean	If this option is passed and the same payment method has already been added to the Vault for any customer, the request will fail. This can only be passed if a customerId is passed as well. This option will be ignored for PayPal, Pay with Venmo, Apple Pay, Google Pay, and Samsung Pay payment methods.	false	
Make Default	Boolean	This option makes the specified payment method the default for the customer. This can only be passed if a customer_id is passed as well.	false	
Verify Card	Boolean	If the payment method is a credit card, this option prompts the gateway to verify the card's number and expiration date. It also verifies the AVS and CVV information if you've enabled AVS and CVV rules. This option can only be passed if a customerId is passed as well.	false	

Sale Shipping Details

Field	Type	Description	Default Value	Required
Shipping Amount	String	A Level 3 field that specifies the shipping cost on the entire transaction. It can't be negative, and it does not add to the total transaction amount.		
Ships From Postal Code	String	A Level 3 field that specifies the postal code of the shipping location.		

Sale Line Item

Field	Type	Description	Default Value	Required
Commodity Code	String	Code used to classify items purchased and track the total amount spent across various categories of products and services. Different corporate purchasing organizations may use different standards, but the United Nations Standard Products and Services Code (UNSPSC) is frequently used. Maximum 12 characters.		
Description	String	Item description. Maximum 127 characters.		
Discount Amount	Number	Discount amount for the line item. Can include up to 2 decimal places. This value can't be negative.		
Kind	Enumeration, one of: - DEBIT - CREDIT - UNRECOGNIZED	Indicates whether the line item is a debit (sale) or credit (refund) to the customer. Accepted values: - "debit" - "credit"		x
Line Name	String	Item name. Maximum 35 characters, or 127		x

Field	Type	Description	Default Value	Required
		characters for PayPal transactions.		
Product Code	String	Product or UPC code for the item. Maximum 12 characters, or 127 characters for PayPal transactions.		
Quantity	Number	Number of units of the item purchased. Can include up to 4 decimal places. This value can't be negative or zero.		x
Tax Amount	Number	Tax amount for the line item. Can include up to 2 decimal places. This value can't be negative.		
Total Amount	Number	Quantity x unit amount. Can include up to 2 decimal places.		x
Unit Amount	Number	Per-unit price of the item. Maximum 4 decimal places, or 2 decimal places for PayPal transactions. This value can't be negative or zero.		x
Unit Of Measure	String	The unit of measure or the unit of measure code. Maximum 12 characters.		
Unit Tax Amount	Number	Per-unit tax price of the item. Can include up to 2 decimal places. This value can't be negative or zero.		
Url	String	The URL to product information.		

Sale Three D Secure Pass Thru

Field	Type	Description	Default Value	Required
Cavv	String	Cardholder authentication		

		verification value or CAVV. The main encrypted message issuers and card networks use to verify authentication has occurred. Mastercard uses an AVV message and American Express uses an AEVV message, each of which should also be passed in the cavv parameter.		
Ds Transaction Id	String	Transaction identifier resulting from 3D Secure 2 authentication. This field must be supplied for Mastercard Identity Check.		
Eci Flag	String	The value of the electronic commerce indicator (ECI) flag, which indicates the outcome of the 3DS authentication. Accepted values for Mastercard: 00 = Failed or not attempted 01 = Attempted 02 = Success Accepted values for all other card brands: 07 = Failed or not attempted 06 = Attempted 05 = Success		x
Three D Secure Version	String	The version of 3D Secure authentication used for the transaction. Required on Visa and Mastercard authentications. Must be composed of digits separated by periods (e.g. 1.0.2).		
Xid	String	Transaction identifier resulting from 3D Secure authentication. Uniquely identifies the transaction and sometimes required in the authorization message. Must be base64-encoded. This field will no longer be used in 3D Secure 2 authentications.		

Transaction Descriptor

Field	Type	Description	Default	Required

			Value
Name	String	The value in the business name field of a customer's statement.	
Phone	String	The value in the phone number field of a customer's statement.	
Url	String	The value in the URL/web address field of a customer's statement.	

Sale Options

Field	Type	Description	Default Value	Required
Hold In Escrow	Boolean	For Braintree Marketplace merchants only. This value specifies whether a transaction is held in escrow. See Escrow for more detail.	false	
Paypal Custom Field	String	Variable passed directly to PayPal via the API for your own tracking purposes. Customers do not see this value, but you can see it in reports from your PayPal console. It also appears in the Braintree Control Panel on the Transaction Detail page of the associated PayPal transaction, and in the CSV file of downloaded transaction searches. Unlike Braintree custom fields, this field does not need to be configured in the Braintree Control Panel.		
Paypal Description	String	Description of the transaction that is displayed to customers in PayPal email receipts. Max 127 characters.		
Skip Advanced Fraud Checking	Boolean	Prevents the transaction from being sent to Kount for evaluation as part of Advanced Fraud Tools checks. Use with caution ? once you've skipped checks for a transaction, it is not possible to	false	

Field	Type	Description	Default Value	Required
		run them retroactively.		
Skip Avs	Boolean	Skip AVS checks for the transaction. Will result in a processor response code of B for avsPostalCodeResponseCode and avsStreetAddressResponseCode, and nil for avsErrorResponseCode. Use with caution ? once you've skipped checks for a transaction, it is not possible to run them retroactively.	false	
Skip Cvv	Boolean	Skip CVV checks for the transaction. Will result in a processor response code of B for cvvResponseCode. Use with caution ? once you've skipped checks for a transaction, it is not possible to run them retroactively.	false	
Store In Vault On Success	Boolean	The option that determines whether the payment method associated with the successful transaction should be stored in the Vault.	false	
Store In Vault	Boolean	The option that determines whether the payment method should be stored in the Vault, regardless of the transaction's success.	false	
Submit For Settlement	Boolean	The option that determines whether an authorized transaction is submitted for settlement.	false	
Venmo Profile Id	String	Specify which Venmo business profile to use for a transaction.		

Search Customer

Field	Type	Description	Default Value	Required
Customer Fields	Array of Customer Information	Customer fields information to search for.		
Created At	Date Information	The date/time the customer		

Field	Type	Description	Default Value	Required
		was created.		
Ids	Array of String	A list of customer IDs to search for.		

Customer Information

Field	Type	Description	Default Value	Required
Field	Enumeration, one of: FIRST_NAME LAST_NAME CUSTOMER_ID EMAIL PHONE FAX COMPANY WEBSITE	Search customer field		x
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operator		x
Search String	String	Search value		x

Date Information

Field	Type	Description	Default Value	Required
Operator	Enumeration, one of: BETWEEN GREATER_THAN_OR_EQUAL_TO LESS_THAN_OR_EQUAL_TO	Operator for Date Range parameter for search transaction		x
Date	String	Date in search transaction. For		x

| | | | BETWEEN operator, it is 'From Date'. Provide date in dd-MM-yyyy HH:mm format. Example: 25-12-2019 13:59 | | |
| Max Date | String | | It is only required for BETWEEN operator. Provide date in dd-MM-yyyy HH:mm format. Example: 25-12-2019 13:59 | | |

Address Information

Field	Type	Description	Default Value	Required
Field	Enumeration, one of: FIRST_NAME LAST_NAME STREET_ADDRESS EXTENDED_ADDRESS LOCALITY REGION POSTAL_CODE COUNTRY_NAME	Search address field		x
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operator		x
Search String	String	Search value		x

Payment Method Information

Field	Type	Description	Default Value	Required

Field	Type	Description		Required
Field	Enumeration, one of: CARDHOLDER_NAME PAYMENT_METHOD_TOKEN PAYPAL_ACCOUNT_EMAIL CREDIT_CARD_NUMBER EXPIRATION_DATE	Search payment method field		x
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operator		x
Search String	String	Search value		x

Search Transaction

Field	Type	Description	Default Value	Required
Amount	Amount	The amount of the transaction. The amount must be formatted like xx or x.xx.		
Ids	Array of String	The list of transaction IDs to search for.		
Merchant Account Ids	Array of String	The merchant account IDs associated with transactions.		
Transaction Is A Refund	Boolean	Specifies whether transaction is a refund	false	

Amount

Field	Type	Description	Default Value	Required
Operator	Enumeration, one of: • IS	Operator for Range parameter for search transaction.		x

	BETWEEN GREATER_THAN_OR_EQUAL_TO LESS_THAN_OR_EQUAL_TO			
Min Amount	String	Transaction amount in search transaction. For BETWEEN operator, it is the minimum amount. Provide amount in x.xx format. Example: 5000.00		x
Max Amount	String	It is only required for BETWEEN operator and it is the maximum amount with between operator. Provide maxAmount in x.xx format. Example: 5000.00		

Date Range Parameters

Field	Type	Description	Default Value	Required
Authorization Expired At	Date Range	The date/time the transaction's authorization expired.		
Authorized At	Date Range	The date/time the transaction was authorized.		
Transaction Created At	Date Range	The date/time at which the transaction was created.		
Disbursement Date	Date Range	The date the transaction was disbursed to your bank account. This field does not include a time value.		
Dispute Date	Date Range	The date the transaction was disputed. This field does not include a time value.		

Failed At	Date Range	The date/time the transaction failed.	
Gateway Rejected At	Date Range	The date/time the transaction was rejected by the gateway.	
Processor Declined At	Date Range	The date/time the transaction was declined by the processor	
Settled At	Date Range	The date/time the transaction finished settling.	
Submitted For Settlement At	Date Range	The date/time the transaction was submitted for settlement.	
Voided At	Date Range	The date/time the transaction was voided.	

Date Range

Field	Type	Description	Default Value	Required
Operator	Enumeration, one of: BETWEEN GREATER_THAN_OR_EQUAL_TO LESS_THAN_OR_EQUAL_TO	Operator for Date Range parameter for search transaction.		x
Date	String	Date in search transaction. For BETWEEN operator, it is 'From Date'. Provide date in dd-MM-yyyy HH:mm format. Example: 25-12-2019 13:59		x
To Date	String	It is only required for BETWEEN operator and it is 'To Date'. Provide date in dd-MM-yyyy HH:mm format. Example: 25-12-2019 13:59		

Search Parameters

Field	Type	Description	Default Value	Required
Transaction Informations	Array of Transaction Information	Transaction information parameters.		
Settlement Informations	Array of Settlement Information	Parameters for Transaction settlement.		
Payment Informations	Array of Payment Information	Parameters for Transaction's Payment Method.		
Customer Informations	Array of Customer Information	Customer information parameters.		
Billing Address Informations	Array of Billing Address Information	Parameters for Transaction's billing address.		
Shipping Address Informations	Array of Shipping Address Information	Parameters for Transaction's shipping address.		

Transaction Information

Field	Type	Description	Default Value	Required
Field	Enumeration, one of: TRANSACTION_ID CURRENCY ORDER_ID PROCESSOR_AUTHORIZATION_CODE	Search fields for Transaction		x
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operator for Transaction		x
Search String	String	Search value for transaction		x

Settlement Information

Field	Type	Description	Default Value	Required
Field	Enumeration, one of: SETTLEMENT_BATCH_ID	Search field for Settlement Information		x
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operatior for Settlement Information		x
Search String	String	Search value for Settlement Information		x

Payment Information

Field	Type	Description	Default Value	Required
Field	Enumeration, one of: CARDHOLDER_NAME CREDIT_CARD_UNIQUE_IDENTIFIER PAYMENT_METHOD_TOKEN PAYPAL_ACCOUNT_PAYER_EMAIL PAYPAL_ACCOUNT_PAYMENT_ID PAYPAL_ACCOUNT_AUTHORIZATION_ID EXPIRATION_DATE CREDIT_CARD_NUMBER	Search fields for Payment Methods		x
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operator for Payment Methods		x

Field	Type	Description	Default Value	Required
Search String	String			x

Billing Address Information

Field	Type	Description	Default Value	Required
Field	Enumeration, one of: BILLING_FIRST_NAME BILLING_LAST_NAME BILLING_COMPANY BILLING_STREET_ADDRESS BILLING_EXTENDED_ADDRESS BILLING_LOCATITY BILLING_REGION BILLING_POSTAL_CODE BILLING_COUNTRY_NAME	Search fields for Billing Address		x
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operator for billing address		x
Search String	String	Search value for billing address		x

Shipping Address Information

Field	Type	Description	Default Value	Required
Field	Enumeration, one of: • SHIPPING_FIRST_NAME • SHIPPING_LAST_NAME • SHIPPING_COMPANY • SHIPPING_STREET_ADDRESS • SHIPPING_EXTENDED_ADDRESS	Search fields for Shipping Address		x

	SHIPPING_LOCATITY		
	SHIPPING_REGION		
	SHIPPING_POSTAL_CODE		
	SHIPPING_COUNTRY_NAME		
Operator	Enumeration, one of: • IS • IS_NOT • STARTS_WITH • ENDS_WITH • CONTAINS	Search operator for Shipping Address	x
Search String	String	Search value for shipping address	x

Filter Parameters

Field	Type	Description	Default Value	Required
Types	Array of Transaction Type	The list of transaction types to search for.		
Statuses	Array of Transaction Status	The list of statuses to search for.		
Transaction Sources	Array of Transaction Source	The list of sources of transaction i.e how transaction was created		
Transaction Card Types	Array of Transaction Card Type	The list of different types of credit card.		
Payment Instrument Types	Array of Payment Instrument Type	The list of payment methods used to process the transaction.		
Transactions Created Using	Array of Transaction Created Using	The list of data used to create the transaction.		
Customer Locations	Array of Transaction Customer Location	The list of the customer location in the transaction.		

Transaction Type

Field	Type	Description	Default Value	Required
Transaction Type	Enumeration, one of: • SALE • CREDIT	Types of transaction.		

Transaction Status

Field	Type	Description	Default Value	Required
Status	Enumeration, one of: • AUTHORIZING • AUTHORIZED • AUTHORIZATION_EXPIRED • SUBMITTED_FOR_SETTLEMENT • SETTLING • SETTLEMENT_PENDING • SETTLEMENT_DECLINED • SETTLED • VOIDED • PROCESSOR_DECLINED • GATEWAY_REJECTED • FAILED	Specifies transaction's status.		

Transaction Source

Field	Type	Description	Default Value	Required
Transaction Source	Enumeration, one of: • API • CONTROL_PANEL • RECURRING	Specifies transaction's source.		

Transaction Card Type

Field	Type	Description	Default	Required

			Value
Card Type	Enumeration, one of: • AMERICAN_EXPRESS • DISCOVER • MAESTRO • JCB • MASTER_CARD • UNION_PAY • VISA	Different types of credit card.	

Payment Instrument Type

Field	Type	Description	Default Value	Required
Payment Instrument Type	Enumeration, one of: • ANDROID_PAY_CARD • APPLE_PAY_CARD • CREDIT_CARD • MASTERPASS_CARD • PAYPAL_ACCOUNT • SAMSUNG_PAY_CARD • US_BANK_ACCOUNT • VENMO_ACCOUNT • VISA_CHECKOUT_CARD	Payment methods used to process the transaction.		

Transaction Created Using

Field	Type	Description	Default Value	Required
Transaction Created Using	Enumeration, one of: • TOKEN • FULL_INFORMATION	Data used to create the transaction.		

Transaction Customer Location

Field	Type	Description	Default Value	Required

| Customer Location | Enumeration, one of:
• INTERNATIONAL
• US | Specifies customer location in the transaction. | | |

Update Payment Method

Field	Type	Description	Default Value	Required
Token	String	The alphanumeric value that references a specific payment method stored in your Vault.		x
Update Existing	Boolean	Update the billing address associated with the payment method token specified. Other payment methods associated with the same billing address will have their addresses updated, as well.	false	
Payment Method Nonce	String	One-time-use reference to new card details provided by your customer. Can only be used on payment method update if the payment method type is a card; other payment method types do not allow their details to be updated.		
New Token	String	If provided, updates the token for the payment method.		

Update Payment Method Options

Field	Type	Description	Default Value	Required
Make Default	Boolean	This option makes the specified payment method the default for the customer.	false	
Verification Amount	String	Specify a non-negative amount that you want to use to verify a card. If you do not pass this option, the gateway		

Field	Type	Description	Default Value	Required
		will automatically use a verification amount of $0 or $1, depending on the processor and/or card type.		
Verification Merchant Account Id	String	Specify the merchant account ID that you want to use to verify a card. Can't be a Braintree Marketplace sub-merchant account.		
Verify Card	Boolean	If the payment method is a credit card, this option prompts the gateway to verify the card's number and expiration date. It also verifies the AVS and CVV information if you've enabled AVS and CVV rules.	false	

Existing Customer

Field	Type	Description	Default Value	Required
Customer Id	String	A string value representing an existing customer in your Vault that you want to charge.		

New Customer

Field	Type	Description	Default Value	Required
Id	String	A string value that will represent this specific customer in your Vault. 36 character maximum; must be unique within your Vault; valid characters are letters, numbers, -, and _; the words "all" and "new" currently can't be used. If not specified on creation, the gateway will generate an alphanumeric ID that can be accessed on the result. The generated IDs will never start with a leading 0 and are case insensitive.		
Customer First Name	String	The first name. The first name value must be less than or equal to 255 characters.		
Customer Last Name	String	The last name. The last name value must be less than or equal to 255 characters.		

Email	String	Email address composed of ASCII characters.
Phone	String	Phone number. Maximum 255 characters.
Fax	String	Fax number. Maximum 255 characters.
Company	String	Company name. Maximum 255 characters.
Website	String	Website URL. Must be less than or equal to 255 characters. Website must be well-formed. The URL scheme is optional.
Token	String	An alphanumeric value that references a specific payment method stored in your Vault. Must be less than or equal to 36 characters. If using a custom integration, you can specify what you want the token to be. If not specified, the gateway will generate one that can be accessed on the result.
Nonce	String	One-time-use reference to payment information provided by your customer, such as a credit card or PayPal account. When passed on customer create, it creates a payment method associated with the new customer.
Device Data	String	Customer device information. Pass this value only if you have Advanced Fraud Tools enabled and are adding credit card data to your Vault. Be sure to provide the full string received from the Braintree.
Custom Fields	Object	A collection of custom field/value pairs. Fields and values must be less than 255 characters. You must set up each custom field in the Control Panel prior to passing it with a request.
Risk Data	Risk Data □	Customer device information, which is sent directly to supported processors for fraud analysis. These fields are automatically populated if using Advanced Fraud Tools. Currently only available when processing American Express via Amex Direct.

Existing Billing Address

Field	Type	Description	Default Value	Required
Billing Address Id	String	The two-letter value for an		

		address associated with a specific customer ID. The maximum number of addresses per customer is 50.		

New Billing Address

Field	Type	Description	Default Value	Required
Add Billing Address To Payment Method	Boolean	The option that determines whether the billing address information provided in the request should be added to the payment method specified. This option works only for new payment methods.	false	
First Name	String	The first name. Maximum 255 characters.		
Last Name	String	The last name. Maximum 255 characters.		
Company	String	Company name. Maximum 255 characters.		
Country Code Alpha2	String	The ISO 3166-1 alpha-2 country code specified in an address. The gateway only accepts specific alpha-2 values.		
Country Code Alpha3	String	The ISO 3166-1 alpha-3 country code specified in an address. The gateway only accepts specific alpha-3 values.		
Country Code Numeric	String	The ISO 3166-1 numeric country code specified in an address. The gateway only accepts specific numeric values.		
Country Name	String	The country name specified in an address.		
Street Address	String	The street address. Maximum 255 characters.		
Region	String	The state or province. Maximum 255 characters.		

Extended Address	String	The extended address information?such as apartment or suite number. 255 character maximum.	
Locality	String	The locality/city. Maximum 255 characters.	
Postal Code	String	The postal code. Postal code must be a string of 4-9 alphanumeric characters, optionally separated by a dash or a space. Spaces and hyphens are ignored.	

Existing Shipping Address

Field	Type	Description	Default Value	Required
Shipping Address Id	String	A shipping address associated with a specific customer ID. The maximum number of addresses per customer is 50.		

New Shipping Address

Field	Type	Description	Default Value	Required
Store Shipping Address In Vault	Boolean	The option that determines whether the shipping address information provided with the transaction should be associated with the customer ID specified. When passed, the payment method will always be stored in the Vault. If there is already a shipping address associated with the customer, this parameter will not replace the existing information; an additional address will be stored instead. You can associate up to 50 addresses with a single customer ID.	false	
First Name	String	The first name. Maximum 255 characters.		
Last Name	String	The last name. Maximum 255 characters.		
Company	String	Company name. Maximum 255 characters.		
Country Code Alpha2	String	The ISO 3166-1 alpha-2 country code specified in an address. The gateway only accepts specific alpha-2 values.		
Country	String	The ISO 3166-1		

Code Alpha3		alpha-3 country code specified in an address. The gateway only accepts specific alpha-3 values.
Country Code Numeric	String	The ISO 3166-1 numeric country code specified in an address. The gateway only accepts specific numeric values.
Country Name	String	The country name specified in an address.
Street Address	String	The street address. Maximum 255 characters.
Region	String	The state or province. Maximum 255 characters.
Extended Address	String	The extended address information?such as apartment or suite number. 255 character maximum.
Locality	String	The locality/city. Maximum 255 characters.
Postal Code	String	The postal code. Postal code must be a string of 4-9 alphanumeric characters, optionally separated by a dash or a space. Spaces and hyphens are ignored.

Payment Method Token

Field	Type	Description	Default Value	Required
Sale Payment Method Token	String	An alphanumeric value that references a specific payment method stored in your Vault. Must be less than or equal to 36 characters. If using a custom integration, you can specify what you want the token to be. If not specified, the gateway will generate one that can be accessed on the result. If using our Drop-in UI with a customer ID to vault payment methods, you can't specify your own token.		x

Card Details

Field	Type	Description	Default Value	Required
Sale Payment Method Nonce	String	One-time-use reference to payment information provided by your customer, such as a credit card or PayPal account. Can be passed instead of a paymentMethodToken parameter.		
Three D Secure Required	Boolean	Options for 3D Secure verification. Can only be used when the payment method nonce parameter is present. Specify whether to require 3D Secure verification to succeed before creating a transaction. Defaults to true for all transactions sent through 3D Secure verification unless you explicitly pass false. For more information, see 3D Secure advanced server-side options.	true	
Payment Method Token	String	An alphanumeric value that references a specific payment method stored in your Vault. Must be less than or equal to 36 characters. If using a custom integration, you can specify what you want the token to be. If not specified, the gateway will generate one that can be accessed on the result.		
Cardholder Name	String	The name associated with the credit card. Must be less than or equal to 175 characters.		
Number	String	Typically requires The PCI SAQ D compliance Braintree recommend using paymentMethodNonce to avoid any PCI concerns with raw credit card data being present on your server. The 12-19 digit value on a credit card consisting of a bank identification number (BIN) and primary account number (PAN).		
Cvv	String	A 3 or 4 digit card verification value assigned to a credit card. The CVV will never be stored in the gateway, but it can be provided with one-time requests to verify the card.		
Expiration Month	String	The expiration month of a credit card, formatted MM. May be used with expirationYear, and instead of expirationDate.		
Expiration Year	String	The two or four digit year associated with a credit card, formatted YYYY or YY. May be used with expirationMonth, and instead of expirationDate.		