

Braintree

Braintree Component

Available as of Camel 2.17

The Braintree component provides access to [Braintree Payments](#) services which support the following payment methods:

- [Credit and debit card](#)
- [Apple Pay](#)
- [Android Pay](#)
- [Venmo](#)
- [PayPal](#)
- [Bitcoin \(beta\)](#)

In order to use camel-braintree you need to provide some [API credentials](#) you can obtain from your account ([Sandbox](#) or [Production](#))

Maven users will need to add the following dependency to their pom.xml for this component:

```
<dependency>
  <groupId>org.apache.camel</groupId>
  <artifactId>camel-braintree</artifactId>
  <version>x.x.x</version>
  <!-- use the same version as your Camel core version -->
</dependency>
```

URI format

```
braintree://endpoint-prefix/endpoint?[options]
```

Endpoint prefix can be one of:

- addOn
- address
- clientToken
- creditCardverification
- customer
- discount
- merchantAccount
- paymentmethod
- paymentmethodNonce
- plan
- settlementBatchSummary
- subscription
- transaction
- webhookNotification

BraintreeComponent

The Braintree Component can be configured with the options below. These options can be provided using the component's bean property **configuration** of type `org.apache.camel.component.braintree.BraintreeConfiguration`.

Option	Type	Description
environment	String	value that specifies where requests should be directed – sandbox or production
merchantId	String	a unique identifier for your gateway account, which is different than your merchant account ID
publicKey	String	user-specific public identifier
privateKey	String	user-specific secure identifier that should not be shared – even with us!

httpLogLevel	java.util.logging.Level	camel 2.17.1 Logging level for http calls
httpLogName	String	camel 2.17.1 Log category to use to log http calls, default "Braintree"
httpReadTimeout	Integer	camel 2.17.1 Read timeout for http calls

All the options above are provided by Braintree Payments

Producer Endpoints:

Producer endpoints can use endpoint prefixes followed by endpoint names and associated options described next. A shorthand alias can be used for some endpoints. The endpoint URI MUST contain a prefix.

Endpoint options that are not mandatory are denoted by []. When there are no mandatory options for an endpoint, one of the set of [] options MUST be provided. Producer endpoints can also use a special option **inBody** that in turn should contain the name of the endpoint option whose value will be contained in the Camel Exchange In message.

Any of the endpoint options can be provided in either the endpoint URI, or dynamically in a message header. The message header name must be of the format **CamelBraintree.<option>**. Note that the **inBody** option overrides message header, i.e. the endpoint option **inBody=option** would override a **CamelBraintree.option** header.

For more information on the endpoints and options see Braintree references at <https://developers.braintreepayments.com/reference/overview>

Endpoint prefix *addOn*

The following endpoints can be invoked with the prefix **addOn** as follows:

```
braintree://addOn/endpoint
```

Endpoint	Shorthand Alias	Options	Result Body Type
all			List<com.braintreegateway.Addon>

Endpoint prefix *address*

The following endpoints can be invoked with the prefix **address** as follows:

```
braintree://address/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
create		customerId, request	com.braintreegateway.Result<com.braintreegateway.Address>
delete		customerId, id	com.braintreegateway.Result<com.braintreegateway.Address>
find		customerId, id	com.braintreegateway.Address
update		customerId, id, request	com.braintreegateway.Result<com.braintreegateway.Address>

URI Options for *address*

Name	Type
customerId	String
request	com.braintreegateway.AddressRequest
id	String

Endpoint prefix *clientToken*

The following endpoints can be invoked with the prefix **clientToken** as follows:

```
braintree://clientToken/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
generate		request	String

URI Options for *clientToken*

Name	Type
request	com.braintreegateway.ClientTokenrequest

Endpoint prefix *creditCardVerification*

The following endpoints can be invoked with the prefix **creditCardverification** as follows:

```
braintree://creditCardVerification/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
find		id	com.braintreegateway.CreditCardVerification
search		query	com.braintreegateway.ResourceCollection<com.braintreegateway.CreditCardVerification>

URI Options for *creditCardVerification*

Name	Type
id	String
query	com.braintreegateway.CreditCardVerificationSearchRequest

Endpoint prefix *customer*

The following endpoints can be invoked with the prefix **customer** as follows:

```
braintree://customer/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
all			
create		request	com.braintreegateway.Result<com.braintreegateway.Customer>
delete		id	com.braintreegateway.Result<com.braintreegateway.Customer>
find		id	com.braintreegateway.Customer
search		query	com.braintreegateway.ResourceCollection<com.braintreegateway.Customer>
update		id, request	com.braintreegateway.Result<com.braintreegateway.Customer>

URI Options for *customer*

Name	Type
id	String
request	com.braintreegateway.CustomerRequest
query	com.braintreegateway.CustomerSearchRequest

Endpoint prefix *discount*

The following endpoints can be invoked with the prefix **discount** as follows:

```
braintree://discount/endpoint
```

Endpoint	Shorthand Alias	Options	Result Body Type
all			List<com.braintreegateway.Discount>

Endpoint prefix *merchantAccount*

The following endpoints can be invoked with the prefix **merchantAccount** as follows:

```
braintree://merchantAccount/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
create		request	com.braintreegateway.Result<com.braintreegateway.MerchantAccount>
find		id	com.braintreegateway.MerchantAccount
update		id, request	com.braintreegateway.Result<com.braintreegateway.MerchantAccount>

URI Options for *merchantAccount*

Name	Type
id	String
request	com.braintreegateway.MerchantAccountRequest

Endpoint prefix *paymentMethod*

The following endpoints can be invoked with the prefix **paymentMethod** as follows:

```
braintree://paymentMethod/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
create		request	com.braintreegateway.Result<com.braintreegateway.PaymentMethod>
delete		token	com.braintreegateway.Result<com.braintreegateway.PaymentMethod>
find		token	com.braintreegateway.PaymentMethod
update		token, request	com.braintreegateway.Result<com.braintreegateway.PaymentMethod>

URI Options for *paymentMethod*

Name	Type
token	String
request	com.braintreegateway.PaymentMethodRequest

Endpoint prefix *paymentMethodNonce*

The following endpoints can be invoked with the prefix **paymentMethodNonce** as follows:

```
braintree://paymentMethodNonce/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
create		paymentMethodToken	com.braintreegateway.Result<com.braintreegateway.PaymentMethodNonce>
find		paymentMethodNonce	com.braintreegateway.PaymentMethodNonce

URI Options for *paymentMethodNonce*

Name	Type
paymentMethodToken	String
paymentMethodNonce	String

Endpoint prefix *plan*

The following endpoints can be invoked with the prefix **plan** as follows:

```
braintree://plan/endpoint
```

Endpoint	Shorthand Alias	Options	Result Body Type
all			List<com.braintreegateway.Plan>

Endpoint prefix *settlementBatchSummary*

The following endpoints can be invoked with the prefix **settlementBatchSummary** as follows:

```
braintree://settlementBatchSummary/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
generate		request	com.braintreegateway.Result<com.braintreegateway.SettlementBatchSummary>

URI Options for *settlementBatchSummary*

Name	Type
settlementDate	Calendar
groupByCustomField	String

Endpoint prefix *subscription*

The following endpoints can be invoked with the prefix **subscription** as follows:

```
braintree://subscription/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
cancel		id	com.braintreegateway.Result<com.braintreegateway.Subscription>
create		request	com.braintreegateway.Result<com.braintreegateway.Subscription>

delete		customerId, id	com.braintreegateway.Result<com.braintreegateway.Subscription>
find		id	com.braintreegateway.Subscription
retryCharge		subscriptionId, amount	com.braintreegateway.Result<com.braintreegateway.Transaction>
search		searchRequest	com.braintreegateway.ResourceCollection<com.braintreegateway.Subscription>
update		id, request	com.braintreegateway.Result<com.braintreegateway.Subscription>

URI Options for *subscription*

Name	Type
id	String
request	com.braintreegateway.SubscriptionRequest
customerId	String
subscriptionId	String
amount	BigDecimal
searchRequest	com.braintreegateway.SubscriptionSearchRequest.

Endpoint prefix *transaction*

The following endpoints can be invoked with the prefix **transaction** as follows:

```
braintree://transaction/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
cancelRelease		id	com.braintreegateway.Result<com.braintreegateway.Transaction>
cloneTransaction		id, cloneRequest	com.braintreegateway.Result<com.braintreegateway.Transaction>
credit		request	com.braintreegateway.Result<com.braintreegateway.Transaction>
find		id	com.braintreegateway.Transaction
holdInEscrow		id	com.braintreegateway.Result<com.braintreegateway.Transaction>
releaseFromEscrow		id	com.braintreegateway.Result<com.braintreegateway.Transaction>
refund		id, amount	com.braintreegateway.Result<com.braintreegateway.Transaction>
sale		request	com.braintreegateway.Result<com.braintreegateway.Transaction>
search		query	com.braintreegateway.ResourceCollection<com.braintreegateway.Transaction>
submitForPartialSettlement		id, amount	com.braintreegateway.Result<com.braintreegateway.Transaction>
submitForSettlement		id, amount, request	com.braintreegateway.Result<com.braintreegateway.Transaction>
voidTransaction		id	com.braintreegateway.Result<com.braintreegateway.Transaction>

URI Options for *transaction*

Name	Type
id	String
request	com.braintreegateway.TransactionCloneRequest
cloneRequest	com.braintreegateway.TransactionCloneRequest
amount	BigDecimal
query	com.braintreegateway.TransactionSearchRequest

Endpoint prefix *webhookNotification*

The following endpoints can be invoked with the prefix **webhookNotification** as follows:

```
braintree://webhookNotification/endpoint?[options]
```

Endpoint	Shorthand Alias	Options	Result Body Type
parse		signature, payload	com.braintreegateway.WebhookNotification
verify		challenge	String

URI Options for *webhookNotification*

Name	Type
signature	String
payload	String
challenge	String

Consumer Endpoints

Any of the producer endpoints can be used as a consumer endpoint. Consumer endpoints can use [Scheduled Poll Consumer Options](#) with a **consumer** prefix to schedule endpoint invocation. By default Consumer endpoints that return an array or collection will generate one exchange per element, and their routes will be executed once for each exchange. To change this behavior use the property **consumer.splitResults=true** to return a single exchange for the entire list or array.

Message Headers

Any URI option can be provided in a message header for producer endpoints with a **CamelBraintree** prefix.

Message body

All result message bodies utilize objects provided by the Braintree Java SDK. Producer endpoints can specify the option name for incoming message body in the **inBody** endpoint parameter.

Examples

Blueprint

```
<?xml version="1.0"?>
<blueprint xmlns="http://www.osgi.org/xmlns/blueprint/v1.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
    xmlns:cm="http://aries.apache.org/blueprint/xmlns/blueprint-cm/v1.0.0"
    xsi:schemaLocation="
        http://aries.apache.org/blueprint/xmlns/blueprint-cm/v1.0.0 http://aries.apache.org/schemas
/blueprint-cm/blueprint-cm-1.0.0.xsd
        http://www.osgi.org/xmlns/blueprint/v1.0.0 https://www.osgi.org/xmlns/blueprint/v1.0.0/blueprint.
xsd
        http://camel.apache.org/schema/blueprint http://camel.apache.org/schema/blueprint/camel-blueprint.
xsd">

    <cm:property-placeholder id="placeholder" persistent-id="camel.braintree">
    </cm:property-placeholder>

    <bean id="braintree" class="org.apache.camel.component.braintree.BraintreeComponent">
        <property name="configuration">
            <bean class="org.apache.camel.component.braintree.BraintreeConfiguration">
                <property name="environment" value="{environment}"/>
                <property name="merchantId" value="{merchantId}"/>
                <property name="publicKey" value="{publicKey}"/>
                <property name="privateKey" value="{privateKey}"/>
            </bean>
        </property>
    </bean>

    <camelContext trace="true" xmlns="http://camel.apache.org/schema/blueprint" id="braintree-example-context">
        <route id="braintree-example-route">
            <from uri="direct:generateClientToken"/>
            <to uri="braintree://clientToken/generate"/>
            <to uri="stream:out"/>
        </route>
    </camelContext>

</blueprint>
```

See Also

- [Configuring Camel](#)
- [Component](#)
- [Endpoint](#)
- [Getting Started](#)