

Braintree Payments Integration Guide

FOR SALESFORCE COMMERCE CLOUD



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1 Summary

This Implementation Guide describes how to:

- Integrate the Braintree Credit Card, PayPal, Apple Pay, Venmo, Local Payment Methods, Google Pay, Secure Remote Commerce payment processors into the Salesforce Commerce Cloud reference application Store Front Reference Architecture (SFRA) v 6.3.0
- Connect `bm_braintree` to Salesforce Commerce Cloud Business Manager.

The `int_braintree` and `bm_braintree` components support the Braintree payment gateway as the new payment processor for Salesforce Commerce Cloud, Business Manager extension, and various stand-alone Braintree Application Programming Interface (API) calls. For additional information, contact your Braintree or PayPal support manager, or visit Braintree support at <https://www.braintreepayments.com/contact>.

Integration of the cartridge into your storefront application does not imply modifications of core cartridge, SFRA approach of files overwriting should be used instead.

2 Component Overview

2.1.1 Functional Overview

The integration includes the following functionality.

2.1.2 Credit Card Payment Processing

Braintree provides a payment processing gateway. Braintree's payment gateway connects your storefront to any processor or bank that Braintree supports.

NOTE: For SFRA Credit Card payment method is required and should be active. If you disable the payment method (`CREDIT_CARD`), an error will occur that may affect the Braintree cartridge.

NOTE: If you as a merchant are making any changes in **Credit/Debit cards** settings (*Merchant tools > Payment methods > Manage Credit/Debit Cards*), to go smoothly with checkout, make sure the type of credit card matches the below:

- Visa
- MasterCard
- American Express
- Diners Club*
- Discover
- JCB
- UnionPay*
- Maestro

- Elo
- Hiper
- Hipercard

* **Diners Club & UnionPay** cards are processed as **Discover** cards, meaning to checkout with this type of card, the **Discover** card type should be added in **Credit/Debit Cards** settings (*Merchant tools > Payment methods > Manage Credit/Debit Cards*).

2.1.3 PayPal Payment Processing

This Braintree integration supports PayPal payments and PayPal Pay Later.

2.1.4 Apple Pay Payment Processing

This Braintree integration also supports Apple Pay payments.

2.1.5 Braintree Vault

The Vault securely stores customer information, including payment methods. You can use it for non-recurring transactions, so your customer doesn't need to re-enter their information each time they make a purchase.

When a payment method is stored in the Vault, the Braintree gateway encrypts the information and associates it with a unique payment method token. This token can be used to create transactions without the PCI compliance issues that come with handling unencrypted data.

This integration allows you to save and update a customer's details in your Braintree Vault.

2.1.6 Braintree Credit card Re-verification

Credit cards with AVS/CVV were previously being vaulted and were not screened against basic fraud tools will be prompted during checkout for re-verification.

2.1.7 Braintree Credit card 3D Secure

When the 3D Secure site preference is auto, the system will decide whether triggering the 3D Secure flow is mandatory for the buyer's Credit Card so that buyer's transaction won't fail due to the missed 3D Secure verification. Applicable to the following payment methods - saved and non-saved credit cards. The following statuses can be received in the Authentication Insight object response:

- unregulated - Do not trigger the 3D Secure flow
- unavailable, psd2 - Trigger the 3D Secure flow

2.1.8 Braintree Credit card expire notification

With the credit card expiration notification, the customer will be able to see that the credit card is expiring or has already expired. By default, this functionality is disabled. Other options are also available:

- *Notify when expired only* - will notify and highlight only if CC is expired
- *Notify 1 month before expiration* - will notify and highlight CC's which are going to expire in 1 month
- *Notify 2 months before expiration* - will notify and highlight CC's which are going to expire in 2 months
- *Notify 3 months before expiration* - will notify and highlight CC's which are going to expire in 3 months

2.1.9 Braintree Limit of saved accounts/credit cards

Allows setting the limit for saving accounts/credit cards to the buyer's wallet. The value of the property is equal to the number of accounts/credit cards which logged-in user are possible to save. Note: this property doesn't work with Drop-In cartridge. By default, is Unlimited. Other options are also available:

- *1 saved account*
- *2 saved accounts*
- *3 saved accounts*
- *4 saved accounts*
- *5 saved accounts*
- *Unlimited*

NOTE: If you decrease the value, already saved accounts/credit cards will not be deleted.

2.1.10 Braintree Transaction Management

The Braintree Business Manager extension lets you work with payment transactions which are linked to Salesforce Commerce Cloud orders.

2.1.11 Payment Method Removal

Payment Method Removal is our custom validation to check if user can remove non-PayPal payment method. It checks whether the method has uncaptured (fully or partially) transaction(s) related to itself. If there are such transactions, the payment method cannot be deleted.

Additionally, it is possible to set the number of days after which the deletion ban is lifted. Default is 31, as this is the longest period before payment instrument expires.

2.1.12 PayPal Provided Buyer Billing Address and Phone Number

To retrieve a buyer's billing address and phone number from the PayPal Checkout flow, please contact your PayPal / Braintree representative or PayPal support to enable these features.

NOTE: PayPal setting is required for PDP/PVP/MiniCart/Cart pages.

2.1.13 PayPal Smart Payment Buttons

PayPal Smart Payments Buttons give your buyers a simplified and secure checkout experience; and gives you as a merchant an easy way to enable other payment methods without requiring additional payment processors.

The PayPal cartridges have two configurations: one for the billing page and one for the cart page. These can be customized to fit your checkout needs. For more details on how to customize, please see the [PayPal Checkout Integration Guide](#).

Together with Smart button “Change Payment Method button” was added. This feature is described in [Returning customer experience guide](#). This feature allows customers the flexibility to change the payment method that they had previously selected within the PayPal Smart button. Customers can choose to change the payment method by clicking on the PayPal button. This feature is currently available only on Checkout page and can be flexible enabled/disabled via setting to true/false *Change Payment Method Button behavior enabled* custom site preference.

NOTE: An authorized PayPal user has his own separate session and saves data separately for the domain from which the SDK is loaded (cookies, localStorage). The session is not cleared automatically when the user login/logout of his account.

2.1.14 Connect with PayPal (optional)

Connect with PayPal enables users to create an account for your website and log in using their PayPal credentials.

NOTE: In case user logs in via Connect with PayPal for the 1st time he will also receive the credentials for login via a Single Authentication (SFCC standard login).

NOTE: We don't recommend using Login with PayPal functionality if you have custom options, namely the possibility of changing customers' emails.

Also, user can access his pre-existing user's account (if it exists) via Connect with PayPal if the email of the pre-existing user account matches with the PayPal email.

When a customer link or unlink his PayPal account, he will receive an email notification.

2.1.15 Venmo Payment Processing

This Braintree integration supports Venmo payments for both web and Android or IOS operation systems.

2.1.16 Local payment method processing

In addition to PayPal and cards, you can now offer the most relevant Local Payment Methods for your customers with a single Braintree integration. This will allow your cross-border customers to pay in their preferred Local Payment Methods while all payments settle into your PayPal account. [Learn more about Local Payment Methods.](#)

2.1.17 Google Pay

Google Pay provides a purchasing experience both in app and on the web for customers with supported Android devices. It allows customers to pay with cards and PayPal accounts stored in their Google account, in addition to those stored in Android Pay. For more details on compatibility and availability please read [Google Pay support article](#).

Starting from this release Google Pay Cards can't be stored on My Account level of Storefront customer. However, all transactions made by Google Pay will be possible to capture/refund in Business Manager.

2.1.18 Secure Remote Commerce

Secure Remote Commerce is a digital wallet from Visa that allows customers to use a single sign-in to make purchases on the web and iOS or Android mobile devices. [Learn more about Secure Remote Commerce.](#)

2.1.19 PayPal Pay later messaging

Add messaging throughout your site to let customers know about options to buy now and pay later, from short-term, interest-free payments to longer-term, monthly installments.

2.1.20 Fastlane by PayPal

Fastlane by PayPal is a new one-click guest checkout experience that merchants utilizing PayPal's platform can offer to their shoppers. This allows customers to make quick and hassle-free purchases. With Fastlane, customers can save their information for a checkout process that can be as quick as a single tap. There's no need to remember a username or password, no need to update personal information, and no need to share a credit card with multiple businesses over the internet.

NOTE: Fastlane is available only for US merchants and only in the scope of int_braintree cartridge. On storefront Fastlane is available only to guest users and as an alternative Credit Card payment method.

2.2 Use Cases

PayPal has developed the following use cases for the Braintree integration:

- Checkout with credit card processing
- Checkout with PayPal payment processing
- Checkout with Google Pay payment processing
- Checkout with Apple Pay payment processing
- Checkout with Venmo payment processing
- Checkout with supported Locale specific payment methods
- Checkout with SRC payment methods
- Braintree customer management
- Braintree payment methods management
- Storefront payment methods customer integration (via credit cards or PayPal)
- Connect with PayPal
- PayPal Pay later messaging
- Fastlane

2.3 Limitations and Constraints

The Braintree cartridge doesn't support multi-shipping in Store Front Reference Architecture (SFRA).

2.4 Privacy and Payment

This integration requires access to the following customer data elements: Billing Address, Shipping Address, Order Details, Customer Profile, and some custom properties of Customer Payment Instruments.

3 Implementation Guide

3.1 Setup

Three cartridges support this integration:

int_braintree - A Salesforce Commerce Cloud storefront extension cartridge that provides payment processor and customer storefront integration functionality.

bm_braintree - This Business Manager extension includes **Braintree Transactions** for the merchant ordering menu.

bm_braintree_configuration - Business Manager extension that allows to change PayPal Smart Button and Pay Later banners styles.

paypal_credit_financing_options - cartridge is no longer supported and considered as deprecated.

The following sub-sections describe the entry points for the integration.

3.1.1 BRAINTREE_CREDIT JavaScript File

`int_braintree/cartridge/scripts/hooks/payment/processor/braintreeCredit.js` provides the payment processor interface

for Braintree credit card processing. Commerce Cloud uses this to connect to the payment processor. This module contains public “Handle” and “Authorize” methods, which are called through the payment flow in the SFRA CheckoutServices controller.

3.1.2 BRAINTREE_PAYPAL JavaScript File

`int_braintree/cartridge/scripts/hooks/payment/processor/braintreePaypal.js` provides the payment processor interface for Braintree PayPal processing. Commerce Cloud uses this to connect with the payment processor. This module contains public “Handle” and “Authorize” methods, which are called through the payment flow in the SFRA CheckoutServices controller.

3.1.3 BRAINTREE_APPLEPAY JavaScript File

`int_braintree/cartridge/scripts/hooks/payment/processor/braintreeApplepay.js` provides the payment processor interface for Braintree ApplePay processing. Commerce Cloud uses this to connect to the payment processor. This module contains public “Handle” and “Authorize” methods, which are called through the payment flow in the SFRA CheckoutServices controller.

3.1.4 BRAINTREE_VENMO JavaScript File

`int_braintree/cartridge/scripts/hooks/payment/processor/braintreeVenmo.js` provides the payment processor interface for Braintree Venmo processing. Commerce Cloud uses this to connect to the payment processor. This module contains public “Handle” and “Authorize” methods, which are called through the payment flow in the SFRA CheckoutServices controller.

3.1.5 BRAINTREE_GOOGLEPAY JavaScript File

`int_braintree/cartridge/scripts/hooks/payment/processor/braintreeGooglepay.js` provides the payment processor interface for Google pay processing. Commerce Cloud uses this to connect to the payment processor. This module contains public “Handle” and “Authorize” methods, which are called through the payment flow in the SFRA CheckoutServices controller.

3.1.6 BRAINTREE_SRC JavaScript File

`int_braintree/cartridge/scripts/hooks/payment/processor/braintreeSrc.js` provides the payment processor interface for Secure Remote Commerce pay processing. Commerce Cloud uses this to connect to the payment processor. This module contains public “Handle” and “Authorize” methods, which are called through the payment flow in the SFRA CheckoutService controller.

3.1.7 Braintree Controller

`int_braintree/cartridge/controllers/Braintree.js` provides all the necessary methods which are needed for working with Storefront (AccountAddCreditCardHandle, AccountAddPaypalHandle, AccountAddVenmoHandle, AccountAddSrcHandle, MakePaymentMethodDefault, RenderAccountsList, GetOrderInfo, PaymentConfirm, FallbackProcess, PaymentMethodHook).

3.2 Configuration

To integrate PayPal Express Checkout, PayPal Pay Later, Credit Card processing, Apple Pay or Venmo, Google Pay, SRC, Local Payment Methods you must add `int_braintree` to your target site cartridge path.

To integrate the Braintree Transactions extension with Business Manager, add the `bm_braintree` cartridges to your Business Manager cartridge path.

Here's how:

- Upload `int_braintree`, `bm_braintree`, `bm_braintree_configuration` to your CI or development Sandbox. Apply the standard flow used to upload cartridges to your environment.
- Upload and import metadata from the metadata folder. To do so, go to **Business Manager > Administration > Site Development > Site Import & Export**. Then apply the standard procedure for uploading metadata into the Commerce Cloud site. You can compress metadata to a .zip archive (as shown in Figure 3.2.1) or upload it via XML files and import it separately.

NOTE: Default site id for payment methods import is RefArch. To change site id, navigate to `metadata/sites` and rename RefArch folder to your site id and that compress metadata folder.

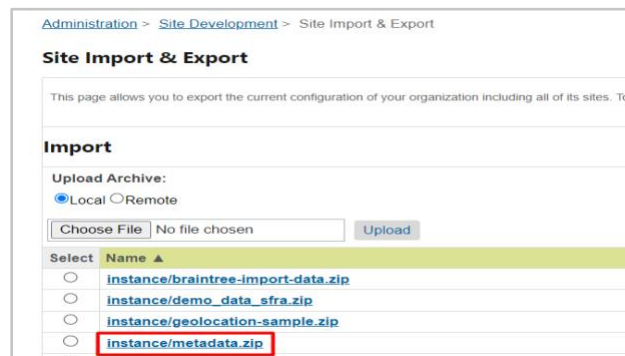


Figure 3.2.1. Metadata .zip Archive

- Insert `int_braintree` into the cartridge path of a target site. To do so, go to **Business Manager > Administration > Sites > Manage Sites > Your Target Site > Settings** and insert `int_braintree:` before your cartridges record, as shown in (For example, `int_braintree:app_storefront_base.`)

Optionally, if you need to integrate Business Manager extensions Braintree Transactions or PayPal styles configuration, insert `bm_braintree` and `bm_braintree_configuration` into the record of the Business Manager cartridge path. To do so, in Commerce Cloud go to **Business Manager > Administration > Sites > Manage Sites > Manage the Business Manager Site > Settings** and insert `bm_braintree_configuration:bm_braintree` before your cartridges record.

3.2.1 Adding API Credentials

Services:

- `int_braintree.http.graphql.payment.Braintree` - is used for the main plugin logic (Smart Button, manipulations with transactions and etc.).
- `int_braintree.http.rest.Paypal` - is used for Connect with PayPal feature.

After installing the cartridge, you'll need to configure the service and update your Braintree credentials (your public key and private key). Here's how:

- Go to **Administration > Operations > Services > Credentials** and find the Credentials record for your Braintree integration at **Braintree_Sandbox_GraphQL_Credentials**.

NOTE: You can create separate credentials records for different needs, such as Production and Test credentials, or you may have a single credentials record for all brands and environments.

Update the following:

- **Braintree_Sandbox_GraphQL_Credentials**
 - URL - Braintree Sandbox (<https://payments.sandbox.braintree-api.com/graphql>) or Braintree Production (<https://payments.braintree-api.com/graphql>)
 - User - Your Braintree public key
 - Password - Your Braintree private key
 - Braintree Merchant ID
 - Tokenization key - Your Braintree tokenization key (optional)

NOTE: The tokenization key is used only for rendering PayPal buttons and can improve performance by reducing the number of requests but is not required.

Alternately, if you don't have a Braintree account but instead have a PayPal account only, you can obtain an ECBT Access Token by following the steps below:

1. Go to <https://developer.paypal.com> and click **Log into Dashboard** with your PayPal credentials.
2. Under **My Apps & Credentials**, scroll down to **Express Checkout via Braintree SDK**.
3. Click **Generate Sandbox Access Token**. The ECBT API URL will be the same as the URL described above.

NOTE: Client ID for PayPal is always required in both authorization types.

You can also enable the communication log for the service `int_braintree.http.graphql.payment.Braintree`. The Communication Log will record every request and response to the log files.

PLEASE NOTE: By enabling the communication log, some details such as customer's personal information including address, phone, and email will be logged in cleartext. This should only be used for debugging purposes. We recommend, if possible, only use this in a sandbox; however, when used in production, ensure you are disabling / unchecking the communication log box immediately after you are done with your debugging. Further, some credentials will also be saved in cleartext.

`int_braintree.http.graphql.payment.Braintree` ⓘ

Fields with a red asterisk (*) are mandatory. Click **Apply** to save the details. Click **Reset** to revert to the last saved state.

Name:*	<input type="text" value="int_braintree.http.graphql.paymen"/>
Type:	<input type="text" value="HTTP"/>
Enabled:	<input checked="" type="checkbox"/>
Service Mode:	<input type="text" value="Live"/>
Log Name Prefix:	<input type="text" value="graphql"/>
Communication Log Enabled:	<input checked="" type="checkbox"/>
Force PRD Behavior in Non-PRD Environments:	<input type="checkbox"/>
Profile:	<input type="text" value="Braintree_Default_Profile"/> Go To Profile
Credentials:	<input type="text" value="Braintree_Sandbox_GraphQL_Credentials"/> Go To Credentials

Figure 3.2.2. `int_braintree.http.graphql.payment.Braintree`

You can optionally grant access to Business Manager extension feature (Braintree Plugin) to the target roles. Here's how:

1. Go to **Business Manager > Administration > Organization > Roles & Permissions** and select the target role that needs access to the Transactions Management page.
2. Select the **Business Manager Modules** tab in the drop-down list. You must select your target site as the active context.
3. Find Transactions, Preference Configuration, Braintree Button Styles Configuration. Grant access to them by checking the checkboxes in Write column and clicking **Update**.
4. Reload a page and check if new menu items available under Merchant Tools.

3.2.2 Service Limits Configuration

By default, `int_braintree` cartridge don't have any service limitation. We recommend putting limitation according to the storefront typical traffic to prevent fraud or potential attack. You can read more about configuration values [here](#).

3.2.3 Local payment methods configuration

Braintree integration supports different local payment methods. Full list with countries and available methods can be found here: [local payment methods list](#).

By default, all payment methods disabled and preconfigured to certain locale and currency.

To enable payment method set **Yes** in the **Enabled** column (Figure 3.2.3). If needed - change locale and currency where method will be available.

NOTE: Transaction created with any of available local payment methods don't support vaulting and will be automatically captured once the customer will confirm the payment.

Method	Payment Processor	Enabled	Count
mybank	MyBank	Yes	15
p24	P24	No	16
sofort	Klarna Pay Now / SOFORT	No	14

mybank Details

Description:

Image:

Payment Processor:

Countries: (1) IT

Currencies: (1) EUR

Customer Groups: All

Min/Max Payment Ranges:

Figure 3.2.3. Local Payment method configuration

3.2.4 Updating Cartridge Custom Site Preferences

Here's how:

- Go to **Business Manager > Merchant Tools > Braintree Plugin > Preference Configuration**. You'll see Custom Preference Configuration (See Figure 3.2.4).

General | Credit Card | PayPal | Apple Pay | Google Pay | Secure Remote Commerce | Venmo | PayPal Financing Options for the UK

Braintree General

Instance Type:

Search by ID:

Figure 3.2.4. Braintree Custom Preference Configuration

- Click **Tab General** for Braintree General configuration. Then select your preferred settings for the preferences shown in Figure 3.2.5:
 - [Merchant Account IDs](#)
To offer support for different currencies on the same site, the value `CurrencyCode:MerchantAccountID` must be added.
 - [Store Payment Method in Vault](#)
 - [Settle transaction immediately](#)
 - Restriction for PM removal
 - Restriction from PM removal expiration

To determine the number of days for Restriction from PM removal. Default is 31, as this is the longest period before payment instrument expires.

- Level 2 and 3 Processing
- Enable Fastlane Checkout
- Fastlane Privacy Enabled
- PayPal Client ID
- Default Custom Fields
- Session Payments Enabled
- Enable Transaction Logs

Name	Value	Default Value	Property Description
Merchant Account IDs	<input type="text"/> Add		
(BRAINTREE_GENERAL_Merchant_Account_IDs) (Set of Strings)			Example: "EUR-MERCHANACID". You can use it to have multiple merchant accounts within the same Braintree gateway. Currency is also determined by Merchant Account ID. If no Merchant Account ID is specified, Braintree will use your default merchant account.
Store Payment Method in Vault	<input type="text" value="Yes"/> ▼	Yes	
(BRAINTREE_GENERAL_Vault_Mode) (Boolean)			Allows saving payment methods in your Braintree vault and buyer's wallet. Is not applicable for PayPal (separate site preference regulates this option for PayPal).
Settle transaction immediately	<input type="text" value="Yes"/> ▼	No	
(BRAINTREE_GENERAL_Settle) (Boolean)			This determines whether the transaction is settled immediately (Sale) or later (Authorization)
Restriction for PM removal	<input type="text" value="Yes"/> ▼	Yes	
(BRAINTREE_GENERAL_Restriction_Payment_Method_R... (Boolean)			The property allows enabling/disabling the plugin logic which will block the logged-in buyer's ability to remove the payment method (except PayPal) from the buyer's wallet if there are fully uncaptured transactions related to this payment method.
Restriction from PM removal expiration	<input type="text" value="1.0"/>	31.0	
(BRAINTREE_GENERAL_Restriction_Payment_Method_R... (Number)			The site preference determines the period after which the logged-in buyer will be able to remove a payment method from the wallet in case the fully uncaptured transaction related to this payment method exists. The property value corresponds to the number of days.
Level 2 and 3 Processing	<input type="text" value="Yes"/> ▼	Yes	
(BRAINTREE_GENERAL_L2_L3) (Boolean)			Level 2 and 3 processing can help you qualify for lower interchange rates on transactions made with certain Visa and Mastercard corporate and purchasing cards. In order to qualify for Level 2, you need to pass specific data in credit card transactions. To qualify for Level 3, you need to pass specific line item data and additional information when creating sale transactions.
Enable Fastlane Checkout	<input type="text" value="Yes"/> ▼	No	
(BRAINTREE_GENERAL_Fastlane_Checkout_Enabled) (Boolean)			Offer an accelerated checkout experience that recognizes guest shoppers and autofills their details so they can pay in seconds.
Fastlane Privacy	<input type="text" value="Yes"/> ▼	Yes	
(BRAINTREE_GENERAL_Fastlane_Privacy_Enabled) (Boolean)			This setting will control whether Fastlane branding is shown by email field. Terms & Conditions: PayPal powers this accelerated checkout solution from Fastlane. Since you'll share consumers' email address with PayPal, please consult your legal advisors on the appropriate privacy settings for your business.
PayPal Client ID	<input type="text"/>		
(BRAINTREE_GENERAL_Paypal_Client_ID) (String)			This setting will enable the PayPal Insights SDK to receive conversion data in the merchants PYPL dashboard. Find your client ID .
Default Custom Fields	<input type="text"/> Add		
(BRAINTREE_GENERAL_Custom_Fields) (Set of Strings)			You must set up each custom field in the Braintree Control Panel prior to entering it here and passing it with a request. Example: "field_name=value". A field name cannot exceed 255 characters and cannot include capital letters or spaces.
Session Payments Enabled	<input type="text" value="Not available (Disabled)"/> ▼	Not available	
(BRAINTREE_GENERAL_Session_Payments_Enabled) (Enum of Strings)			This option determines whether session payments should be enabled for guest or logged-in users or both or disabled. Note: Is not applicable for Apple Pay and PayPal.
Enable Transaction Logs	<input type="text" value="Yes"/> ▼	No	
(BRAINTREE_GENERAL_Transaction_Log_Enabled) (Boolean)			Enables logging of the requests to and responses from Braintree while creating transaction. You can review these requests/responses in the Transaction Details
OCAPI Configuration	<input type="text" value="{}"/> Add		
(BRAINTREE_GENERAL_OCAPI_Config) (Text)			Configuration for OCAPI. JSON format. List of fields: clientId, clientPassword, apiVersion, bmUserLogin, bmUserPassword
WebDAV Configuration	<input type="text" value="{}"/> Add		
(BRAINTREE_GENERAL_WebDAV_Config) (Text)			Configuration for WebDAV. JSON format. List of fields: host, username, password

Figure 3.2.5. Braintree General Preferences

- Click **Tab Credit** for Braintree Credit configuration. Then select your preferred settings for the preferences shown in Figure 3.2.6:
 - 3D Secure flow
 - 3D Secure CC verification on the My Account page

- 3D Secure SCA exemption
- Braintree Credit Card Re-Verify Enabled
- Braintree Credit Card Expire Notification Configuration

Name	Value	Default Value	Property Description
3D Secure flow (BRAINTREE_CC_3DSecure_Flow) (Enum of Strings)	Always (always)	Auto	Enables 3D Secure flow (an additional layer of authentication) on Checkout. 3DS flow can be triggered depending on the selected values: 'Disabled' - 3DS will not be triggered (3DS is disabled). Note: If the 3DS is required your buyers may face failed card verifications; 'Auto' - automatically defines whether the 3DS flow is required by bank or not. If it's required the 3DS flow will be triggered (Recommended value); 'Always' - 3DS flow will be always forced if possible;
3D Secure CC verification on the My Account page (BRAINTREE_CC_3DSecure_Account_Page) (Enum of Strings)	Always (always)	Disabled	Enables 3D Secure flow (an additional layer of authentication) on My Account. 3DS flow can be triggered depending on the selected values: 'Disabled' - 3DS will not be triggered (3DS is disabled). Note: If the 3DS is required your buyers may face failed card verifications; 'Auto' - automatically defines whether the 3DS flow is required by bank or not. If it's required the 3DS flow will be triggered (Recommended value); 'Always' - 3DS flow will be always forced if possible;
3D Secure SCA exemption (BRAINTREE_CC_3DSecure_SCA_Exemption) (Enum of Strings)	Low_Value SCA Exemption (low_value)	Disabled	Enables requesting a specific SCA exemption (by risk or low amount) when performing a 3D Secure authentication, If it's granted then authentication will not be required. However, in this case, the liability remains with the merchant and is not shifted to the issuer. Please get acquainted with SCA regulations and exemptions before using this option. Important notes: Exemptions are granted completely at the discretion of the issuer, and are never guaranteed. SCA exemptions will not be requested if the 3D Secure flow or 3D Secure CC verification on the My Account page site preference value is set to 'always'
Braintree Credit Card Re-Verify Enabled (BRAINTREE_CREDIT_Reverify_Enabled) (Boolean)	No	No	This property allows logged-in buyers to re-verify a saved CC on the Checkout page
Braintree Credit Card Expire Notification Configuration (BRAINTREE_CC_Expire_Notification) (Enum of Integers)	Disabled (-1)	Disabled	Options: Disabled - will disable CC expire feature Notify when expired only - will notify and highlight only if CC is expired Notify 1 month before expiration - will notify and highlight CC's which are going to expire in 1 month Notify 2 months before expiration - will notify and highlight CC's which are going to expire in 2 months Notify 3 months before expiration - will notify and highlight CC's which are going to expire in 3 months
Limit of saved credit cards (BRAINTREE_CC_Limit_Saved_Accounts) (Enum of Integers)	Unlimited (-1)	Unlimited	Allows setting the limit for saving credit cards to the buyer's wallet. The value of the property is equal to the number of credit cards which are possible to save. Note: this property doesn't work with Drop-In cartridge.

Figure 3.2.6. Braintree Credit Preferences

- Click **Tab** PayPal for Braintree PayPal configuration. Then select your preferred settings for the preferences shown in Figure 3.2.7:
 - Merchant Name
 - Billing Agreement Description
 - PayPal Button Location
 - PayPal Debit Credit Button Enable
 - PayPal Pay Later Button Enable
 - PayPal Pay Later Banner Location
 - Change Payment Method Button behavior enabled
 - List of disable funding methods
 - List of enable funding methods
 - CWPP Button Enabled
 - Connect with PayPal button url
 - Connect with PayPal agent login
 - Connect with PayPal agent password
 - Automatic payment method adding enabled
 - Account Linking Security Layer enabled

Braintree PayPal

Instance Type

Sandbox

Search by ID



Cancel

Apply to Other Sites

Save

Name	Value	Default Value	Property Description
Store PayPal account in Vault (BRAintree_PAYPAL_Vault_Mode) (Boolean)	No	No	Allows to regulate vault options for PayPal on Checkout and My Account. If enabled then it's possible to save the PayPal account to the user's wallet and Braintree vault. Note: If the Save my PayPal account to the wallet checkbox is not selected on Checkout, then PayPal Checkout flow will be used and PayPal account will not be saved to the buyer's wallet and Braintree vault, if the checkbox is selected the PayPal Checkout with Vault flow will be used and payment method will be saved to both buyer's wallet and Braintree vault. For guest users, only the PayPal Checkout flow will be used. If site preference is disabled, then PayPal Checkout flow will be used and it's impossible to save the PayPal account to both the buyer's wallet and Braintree vault.
Merchant Name (BRAintree_PAYPAL_Display_Name) (String)			This is your merchant name that will be displayed inside of the PayPal lightbox. If empty, the company name from your Braintree account will be displayed.
Billing Agreement Description (BRAintree_PAYPAL_Billing_Agreement_Des...) (String)			Use this option to set the description of the preapproved payment agreement visible to customers in their PayPal profile during Vault flows. Max 249 characters.
PayPal Button Location (BRAintree_PAYPAL_Button_Location) (Enum of Strings)	<input checked="" type="checkbox"/> Cart <input checked="" type="checkbox"/> MiniCart <input checked="" type="checkbox"/> PDP <input checked="" type="checkbox"/> PVP		This site preference allows setting up an additional PayPal button location on the website. The default button location is the Billing page.
PayPal Debit Credit Button Enabled (BRAintree_PAYPAL_Debit_Credit_Button_E...) (Boolean)	Yes	Yes	Allows enabling PayPal Debit Credit Button on the storefront which will be displayed next to the PayPal button. Please note that the PayPal Debit Credit Button location will be the same as the location of the PayPal button.
PayPal Pay Later Button Enabled (BRAintree_PAYPAL_Pay_Later_Button_Enabl...) (Boolean)	No	No	Allows enabling PayPal Pay Later Button on the storefront for eligible customers which will be rendered next to the PayPal button. Please note that the PayPal Pay Later Button location will be the same as the location of the PayPal button.
PayPal Pay Later Banner Location (BRAintree_PAYPAL_Banner_Location) (Enum of Strings)	<input checked="" type="checkbox"/> PDP <input checked="" type="checkbox"/> Cart <input checked="" type="checkbox"/> Category		Allows setting up an additional PayPal Pay Later Banner location on the storefront.
Pay Later Cross-Border Messaging Enabled (BRAintree_PAYPAL_Pay_Later_Cross_Border...) (Boolean)	Yes	Yes	Enables Cross-border messages for PayLater. It means that the text for PayLater messages can be displayed according to your website location.
Change Payment Method Button behavior enabled (BRAintree_PAYPAL_Change_Payment_Meth...) (Boolean)	No	Yes	Activates PayPal Returning Customer Experience on the Checkout.
List of disable funding methods (BRAintree_PAYPAL_Disable_Funding_List) (Set of Strings)	<input type="text"/> Add		List of additional disable funding methods for SDK URL creation
List of enable funding methods (BRAintree_PAYPAL_Enable_Funding_List) (Set of Strings)	<input type="text"/> Add		List of additional enable funding methods for SDK URL creation
CWPP Button Enabled (BRAintree_PAYPAL_CWPP_Button_Enabled) (Boolean)	No	No	It identifies whether the Connect with PayPal (CWPP) button is enabled on the Login and the Checkout pages.

Connect with PayPal button url		
(BRAINTREE_PAYPAL_CWPP_Button_Url) (String)	<input type="text" value="https://www.sandbox.paypal.com/connect?"/>	https://www.sandbox.paypal.com... This URL is used for Connect with PayPal feature. Sandbox URL: https://www.sandbox.paypal.com/connect? Production URL: https://www.paypal.com/connect?
Connect with PayPal agent login		
(BRAINTREE_PAYPAL_CWPP_Agent_Login) (String)	<input type="text" value="mgrey@gm.co"/>	Connect with PayPal functionality requires agent credentials to perform "Login On Behalf" action.
Connect with PayPal agent password		
(BRAINTREE_PAYPAL_CWPP_Agent_Password) (Password)	<input type="password" value="....."/>	Connect with PayPal functionality requires agent credentials to perform "Login On Behalf" action.
Account Linking Security Layer enabled		
(BRAINTREE_PAYPAL_CWPP_Account_Linking...) (Boolean)	<input type="button" value="No"/>	No Enables additional verification step (enter credentials from the pre-existing user account) during the account linking while your buyers use Connect with PayPal for the first time and the user account email matches with the PayPal primary account email.
Automatic payment method adding enabled		
(BRAINTREE_PAYPAL_APMA_Enabled) (Boolean)	<input type="button" value="No"/>	No Indicates if the 'Automatic payment method adding' feature is enabled via Connect with Paypal
Limit of saved PayPal accounts		
(BRAINTREE_PAYPAL_Limit_Saved_Accounts) (Enum of Integers)	<input type="button" value="Unlimited (-1)"/>	Unlimited Allows setting the limit for saving different PayPal accounts to the buyer's wallet. The value of the property is equal to the number of PayPal accounts which are possible to save. Note: this property doesn't work with Drop-In cartridge.

Figure 3.2.7. Braintree PayPal Preferences

- Click **Tab Apple Pay** for Braintree Apple Pay configuration. Then select your preferred settings for the preferences shown in Figure 3.2.8:
 - Visibility of Apple Pay Button on the Cart page
 - Merchant Name

Name	Value	Default Value	Property Description
Merchant Name			
(BRAINTREE_APPLEPAY_Display_Name) (String)	<input type="text"/>	Saleforce Shop	Provide a business name for total's label field. Use the same business name people will see when they look for the charge on their bank or credit card statement. For example, "COMPANY INC."
Visibility of Apple Pay Button on the Cart page			
(BRAINTREE_APPLEPAY_Visibility_Button_...) (Boolean)	<input type="button" value="None"/>	Yes	This site preference allows displaying the Apple Pay button on the Cart page.

Figure 3.2.8. Braintree Apple Pay Preferences

- Click **Tab Venmo** for Braintree Venmo configuration. Then select your preferred settings for the preferences shown in Figure .
 - Merchant Name

Name	Value	Default Value	Property Description
Merchant Name			
(BRAINTREE_VENMO_Display_Name) (String)	<input type="text"/>	Saleforce Shop	Provide a business name for the total's label field. Use the same business name people will see when they look for the charge on their bank or credit card statement. For example, "COMPANY INC."

Figure 3.2.9. Braintree Venmo Preferences

- Click **Tab Google Pay** for Braintree Google Pay configuration. Then select your preferred settings for the preferences shown in Figure 3.2.9 Figure 3.2.9
 - Visibility of Google Pay Button on the Cart page
 - 3D Secure flow
 - Merchant Name
 - Merchant ID

Name	Value	Default Value	Property Description
Merchant Name			
(BRAINTREE_GOOGLEPAY_Display_Name) (String)	<input type="text" value="Salesforce Shop"/>	Salesforce Shop	Provide a business name for total's label field. Use the same business name people will see when they look for the charge on their bank or credit card statement. For example, "COMPANY INC."
3D Secure flow			
(BRAINTREE_GOOGLEPAY_3DSecure_Flow) (Enum of Strings)	<input type="text" value="Always (always)"/>	Disabled	Enables 3D Secure flow (an additional layer of authentication) on Checkout. 3DS flow can be triggered depending on the selected values: 'Disabled' - 3DS will not be triggered (3DS is disabled). Note: If the 3DS is required your buyers may face failed card verifications; 'Always' - 3DS flow will be always forced if possible;
Visibility of Google Pay Button on the Cart page			
(BRAINTREE_GOOGLEPAY_Visibility_Button_...) (Boolean)	<input type="text" value="Yes"/>	Yes	This site preference allows displaying the Google Pay button on the Cart page.
Google merchant id			
(BRAINTREE_GOOGLEPAY_Google_Merchan...) (String)	<input type="text"/>		Example: 'your-merchant-id-from-google'; A Google merchant identifier issued after your website is approved by Google. Required when PaymentsClient is initialized with an environment property of PRODUCTION, but may be omitted in TEST environment.

Figure 3.2.9 Google Pay Preferences

- Click View for Braintree SRC configuration. Then select your preferred settings for the preferences shown in Figure 3.2.10:
 - Merchant Name
 - Visibility of Secure Remote Commerce Button on the Cart page

Name	Value	Default Value
Merchant Name		
(BRAINTREE_SRC_Display_Name) (String)	<input type="text"/>	Salesforce Shop
Provide a business name for total's label field. Use the same business name people will see when they look for the charge on their bank or credit card statement. For example, "COMPANY INC &..."		
Visibility of Secure Remote Commerce Button on the Cart page		
(BRAINTREE_SRC_Visibility_Button_...)	<input type="text" value="Yes"/>	Yes

Figure 3.2.10 Secure Remote Commerce Preferences

Also, few values that were in the custom preferences in the previous versions of the cartridge were moved to file `int_braintree/cartridge/config/braintreePreferences.js`:

- 1) `LoggingMode` - define what logs should be created by cartridge. Possible values: 'error', 'none'. Default value - 'all'
- 2) `isFraudToolsEnabled` - enables BT fraud for credit card payment. Default value true.
- 3) `isPaypalFraudToolsEnabled` - enables BT fraud for PayPal payment. Default value true.
- 4) `Descriptors`: `creditCardDescriptorPhone`, `creditCardDescriptorName`, `creditCardDescriptorUrl`, `paypalDescriptorName`, `venmoDescriptorName` - these are dynamic descriptors. Their values can be configured in file mentioned above. Example of a full descriptor with a valid dynamic descriptor name is: `VENMO *AStore O-1234`, where **AStore** is the **Business Name** and **O-1234** is the **Dynamic Descriptor Name**. Not included in transaction by default. Please visit Braintree Developer Docs for more information on [Descriptors](#) and [Dynamic descriptors](#).

3.3 Customizing Code

After configuring your custom site preferences for Braintree, you may need to implement custom code modifications in the LINK cartridge to enable additional features, or to update the files that overwrite the ones from core cartridge.

3.3.1 Custom Fields (Optional)

[Braintree Custom fields](#) provide an easy way to collect additional information about your customers or their purchase, like the name of the product they purchased. These [custom fields](#) can also be used to pass through information to Kount if you have a direct Kount integration

You can set custom fields in three ways (processed in the order shown):

- Configuration by Business Manager
- Custom code (hook file)

The custom field descriptions in the hook file override the custom field descriptions in Business Manager.

The following example illustrates how custom field values are inherited or overridden.

- In Business Manager, you configure:
 - Field_1, set to val1
 - Field_2, set to val2
- Using custom code in a hook file, you set these fields:
 - Field1. The value of this field changes from val1 to the value you specify in the code.
 - Field_3, set to val3
- The Braintree server receives the following fields:
 - Field_1, which has the value set in the hook file.
 - Field_2, which remains set to val2 (as defined in Business Manager)
 - Field_3, which remains set to val3 (as defined in the custom code)
 - Field_4, which remains set to val4 (as defined on the client side).

Braintree ignores the setting for field_2 defined on the client side (val3_overridden_by_client), because this field was declared in the Business Manager configuration or the hook script.

If you need to generate custom fields during your checkout flow:

- Add a new hook for the storefront cartridge file,
`./cartridge/scripts/hook.json`.

```
{
  "hooks": [
    {
```

```

        "name": "dw.ocapi.shop.basket.calculate",
        "script": "./cart/calculate.js"
      },
      {
        "name": "braintree.customFields",
        "script": "./hook.braintree.customFields.js"
      }
    ]
  }
}

```

- Add a new file to the storefront cartridge, `./cartridge/scripts/hook.braintree.customFields.js`.

```

exports.credit = function(data) {
  var customFields = {
    //field_2: 'value2_overided',
    //field_3: 'value3'
  };
  return customFields;
};

```

3.4 External Interfaces

The main configuration of the Braintree services integration is the `int_braintree.http.graphql.payment.Braintree` service, which you'll find under **Administration > Operations > Services**. (See Figure 3.4.1)

`int_braintree.http.graphql.payment.Braintree`

Fields with a red asterisk (*) are mandatory. Click **Apply** to save the details. Click **Reset** to revert to the last saved state.

Name: *	<input type="text" value="int_braintree.http.graphql.paymen"/>
Type:	<input type="text" value="HTTP"/>
Enabled:	<input checked="" type="checkbox"/>
Service Mode:	<input type="text" value="Live"/>
Log Name Prefix:	<input type="text" value="graphql"/>
Communication Log Enabled:	<input checked="" type="checkbox"/>
Force PRD Behavior in Non-PRD Environments:	<input type="checkbox"/>
Profile:	<input type="text" value="Braintree_Default_Profile"/> Go To Profile
Credentials:	<input type="text" value="Braintree_Sandbox_GraphQL_Credentials"/> Go To Credentials

Figure 3.4.1. Braintree Service Definition

You can edit the log name prefix, enable communication logs, and change the credentials record for this service. The Braintree integration cartridge ships with one credential record, which should be updated by your credentials.

The Braintree integration uses the Braintree APIs. All requests are formatted in GraphQL, which is used to communicate between Commerce Cloud and Braintree. Client calls use the Braintree JavaScript Client SDK.

You'll find Braintree client side documentation at <https://developers.braintreepayments.com/reference/overview> and server side API doc at <https://graphql.braintreepayments.com/reference/>.

This Braintree Integration cartridge supports the following Braintree GraphQL API calls:

Customers	Payment Methods	Transactions
Create	Create	Find
Find	Delete	Refund
	Find	Sale
		Submit for Settlement
		Submit for Partial Settlement
		Void
		Search

Each of these API calls is implemented as a stand-alone method (module `braintreeBusinessLogic.js`) and can be invoked from external code without integration to Store Front Reference Architecture (SFRA). However, you still need to configure custom preferences.

3.5 Testing

You must obtain your own test account on the [Braintree Sandbox](#). If you can't create your own Braintree Sandbox account, contact [Braintree support](#).

3.6 Core templates overlay list

The following templates from `app_storefront_base` cartridges will be impacted by `int_braintree`

`account/dashboardProfileCards.isml`

`account/components/oauth.isml`

`account/profileCard.isml`

`cart/cart.isml`

`checkout/billing/paymentOptions/paymentOptionsContent.isml`

`checkout/billing/paymentOptions/paymentOptionsSummary.isml`

`checkout/billing/paymentOptions/paymentOptionsTabs.isml`

checkout/billing/billingSummary.isml

checkout/customer/customerOAuthCard.isml

checkout/cart/miniCart.isml

checkout/confirmation/confirmation.isml

checkout/customer/customerCard.isml

checkout/shipping/shipmentCard.isml

common/scripts.isml

components/footer/pageFooter.isml

product/components/addToCartGlobal.isml

product/components/addToCartProduct.isml

product/components/socialIcons.isml

search/searchResultsNoDecorator.isml

Templates are up to date with SFRA 6.3.0

3.7 Hosted fields styling

Hosted fields and PayPal button look on a page could be customize with options listed here: [Hosted fields styling](#), [Hosted fields advance options](#)

To apply styles edit files in

cartridges/int_braintree/cartridge/scripts/braintree/configuration/paypalButtonConfigs.js

BRAINTREE_Hosted_Fields_Advanced_Options - [Hosted fields advance options](#)

BRAINTREE_Hosted_Fields_Styling - [Hosted fields styling](#)

3.8 Plugin configuration exports (optional)

A feature that allows merchants to download Braintree plugin configurations, such as Braintree custom preferences, Braintree services, enabled payment methods/processors and Braintree plugin logs. Additionally, it tests Braintree service connection. (Read more in chapter 6.7 Plugin configuration exports)

To configure the plugin exports feature:

- first set up **WebDAV and OCAPI access keys** if they weren't set up before. To do so go to your profile and click on **Manage Access Keys** and generate access keys
- then go to **Merchant tools > Braintree plugin > Preference configuration General Tab** and paste WebDAV and OCAPI configurations in JSON format for the **OCAPI Configuration** and **WebDAV Configuration** preferences, e.g.

- **OCAPI Configuration preference**
(BRAINTREE_GENERAL_OCAPI_Config):

```
{
  "clientId": "OCAPI client id",
  "clientPassword": "OCAPI client password",
  "apiVersion": "23.2",
  "bmUserLogin": "SFRA Business manager login email",
  "bmUserPassword": "Agent User Login and OCAPI access key"
}
```

- **WebDAV Configuration preference**
(BRAINTREE_GENERAL_WebDAV_Config):

```
{
  "host": "****.dx.commercecloud.salesforce.com",
  "username": "SFRA Business manager login email",
  "password": "WebDAV File Access and UX Studio access key"
}
```

- save and refresh the page. After that go to OCAPI configs, that are in **Administration > Site development > Open Commerce API Settings**, select Data type and add the following JSON (if JSON exists there already, just add the two new resource objects for the jobs):

```
{
  "_v": "23.2",
  "clients": [
    {
      "client_id": "OCAPI client id",
      "resources": [
        {
          "methods": ["post"],
          "read_attributes": "(**)",
          "write_attributes": "(**)",
          "resource_id": "/jobs/*/executions"
        },
        {
          "methods": ["get"],
          "read_attributes": "(**)",
```

```

        "write_attributes": "(**)",
        "resource_id": "/jobs/*/executions/*"
    }
]
}
]
}

```

4 Payment method site verification (domain registration)

4.1 Apple Pay

In production, in the case of Apple Pay (for example), you need to register a domain in Apple Pay system. To register a domain, you need to upload a special file to the root of your site.

A simple approach is to download this file at the domain level, but the point is, you cannot do this for the Commerce Cloud domain. Of course, if you are using a different domain (custom), you can download this file, and this will be the best way.

In case you only have a Commerce Cloud domain in a production environment, or you cannot add this file to a custom domain (no permissions, etc.), you can follow these steps:

1. Download the domain registration file from [Braintree dev site](#).
2. Follow the guide [from Salesforce Help](#) portal.

5 Braintree Webhook Support

5.1 Payment method revoked by customer

The purpose of this webhook is to remove PayPal payment method from buyer (both on storefront account and Braintree Customer level) in case if buyer removed his/her PayPal Billing Agreement from PayPal buyer Console.

5.1.1 Setup of the webhook on Braintree Console end

The notification kind: `payment_method_revoked_by_customer`.

[The link](#) on this webhook Braintree documentation.

Steps for configuration:

1. Go to the [Braintree merchants account](#) and log in to the Dashboard with your account.
2. Click on the gear icon in the top right corner.
3. Click API from the drop-down menu.
4. Click on the Webhooks tab.
5. Click the Create New Webhook button or Edit existing.
6. Enter a URL to your site with an endpoint Braintree-PaymentMethodHook (Ex.
https://dx.commercecloud.salesforce.com/on/demandware.store/Sites-RefArch-Site/en_US/Braintree-PaymentMethodHook).
7. Only enable notifications that are needed.

Webhooks

A webhook notification is a message indicating that a specific event has occurred, such as a canceled subscription. When the event occurs, the notification is sent via **HTTPS POST** to a destination url of your choice. [Learn more](#).

Clicking a webhook's Check URL action will fire a test webhook to your endpoint. Watch out though, if your webhook handling code doesn't check notification types this might cause **unexpected side effects**.

If you have older non-**HTTPS** webhooks, they have been disabled and can no longer be checked.

URL	Notifications	Actions
(ENABLED) https://dx.commercecloud.salesforce.com/on/demandware.store/Sites-RefArch-Site/en_US/Paypal-WebHooks	Local Payment Completed +3 more	Check URL Edit Delete

Figure 5.1.1 Example of created Webhook in Braintree merchant account

5.1.2 Testing

1. Create an account on the storefront.
2. Set to *Yes Store Payment Method in Vault* site preference (it's located inside *Braintree Common* custom site preference group).
3. Login to the account which you created on step 1 and add PayPal account.
4. Login to the PayPal buyer console. Use PayPal account which you added on step 3 ([sb PayPal buyers URL](#)).
5. Remove Billing Agreement.
To do this, follow these steps:
 - a. Click on gear (top right corner).
 - b. Go to *Payments* tab.
 - c. Click on *Manage automatic payments*.
 - d. Select active store from the left.
 - e. Click on *Cancel* button.
6. Wait 5-10 minutes.
7. Login to account which you created on step 1. PayPal account added on the step 3 should disappear. Payment method token which was created for this

account should no longer work (should be impossible to create a transaction with that payment method token within Business Manager *Braintree Transaction* section).

5.2 Fraud protection

PLEASE NOTE: Fraud Protection webhooks are only available for merchants using Fraud Protection Advanced. For an overview on available Fraud Tools, see: [Support article](#).

This webhook is used for retrieving Fraud Review decision made in the Fraud Protection Advanced dashboard. The webhook will be triggered only when the merchant approves or rejects a transaction in the review queue. The transactions that were approved or rejected automatically will not trigger the hook, so some transactions may not have the same status on the SFCC side as on the Braintree side. The adjustments are not required, as far as it is an expected behavior implemented by Braintree.

5.2.1 Setup of the webhook on Braintree Console end

The notification kind: transaction_reviewed.

[The link](#) on this webhook Braintree documentation.

To configure webhook, login to the Braintree Console and follow [this guide](#). As a destination URL put the URL to your instance. The endpoint name should be *Braintree-PaymentMethodHook*. Add notification kind mentioned above.

5.2.2 Testing

1. Create a transaction via Credit Card, SRC, GooglePay or ApplePay (only this payment methods are applicable for Fraud Protection Webhook).
2. Go to Fraud Protection Advanced Dashboard, review the transaction, and make decision (Approve/Reject).
 - If transaction was Approved, then transaction status would not change, only BT Fraud Tool Review status would be changed.
 - If settled transaction was Rejected and "Issue a refund" was chosen, then transaction would be refunded.
 - If transaction was Rejected no matter what Refund option was chosen, then transaction would be voided.
3. Wait for webhook to be triggered on Braintree side (1-5 min).
4. Go to the: **Merchant Tools > Braintree Plugin > Transactions**.
5. BT Fraud Tool Review status should be changed to the one that was selected in Fraud Protection Advanced Tool.

6 Operations and Maintenance

6.1 Data Storage

Braintree integration requires the System Objects Extension to store payment-related information.

OrderPaymentInstrument custom properties:

- **braintreePaymentMethodNonce** - Braintree Payment Method Nonce. This property is used to save the nonce, in case of a failed transaction, for future reference.
- **braintreeFraudRiskData** - Braintree Payment Device Data/Risk. This stores the Fraud service response.
- **braintreePaymentMethodToken** - Braintree Payment Method token.
- **braintreeFailReason** - Transaction fail reason.
- **braintree3dSecureStatus** - Used to set the 3D Secure result.
- **braintreeIs3dSecureRequired** - Braintree 3D Secure is a required flag.
- **braintreeSaveCreditCard** - A temporary property that will be removed after the checkout process. Introduced as an integration point between Braintree and SFRA.
- **braintreeCreditCardMakeDefault** - A temporary property that will be removed after the checkout process. Introduced as an integration point between Braintree and SFRA.
- **braintreeCustomFields** - A temporary property that will be removed after the checkout process. Introduced as an integration point between Braintree and SFRA.
- **braintreeVenmoUserId** - Id of the logged Venmo customer
- **braintreeCreditCardBillingAddress** - A billing address of a credit card.

PaymentTransaction custom properties:

- **braintreeRequest** - Request log.
- **braintreeResponse** - Response log.

CustomerPaymentInstrument custom properties:

- **braintreeDefaultCard** - Indicates the default card
- **braintreePaypalAccountEmail** - Braintree PayPal account email address
- **braintreePaypalAccountAddresses** - Braintree PayPal account addresses
- **braintreePaymentMethodToken** - Braintree Payment Method token.
- **braintreeVenmoUserId** - User login used for vaulting
- **braintreeCreditCardBillingAddress** - A billing address of a credit card.

Profile custom properties:

- **isBraintree** - Indicates that the customer was stored to the Vault during checkout, or to the Braintree customer's Business Manager extension
- **braintreeCustomerId** - Is used to support both Braintree Customers which was created by XML API and GraphQL API. In XML API it was possible to create a Braintree Customer with custom ID (It was concatenation of site_Id + "_" + demandware_customer_Id), but In GraphQL API no longer possible to create a Braintree Customer with custom ID.

Order custom properties:

- **isBraintree** - Property to differentiate Braintree and non-Braintree orders
- **braintreePaymentStatus** - The status returned by Braintree
- **partialTransactions** - Contains the transaction IDs of partial transactions
- **braintreeFraudReviewStatus** - A store's fraud risk decision.
- **paypalFundingSource** - Funding source of PayPal Smart Button
- **isExternalProfile** - Identifies whether the customer's profile is external (via Connect with PayPal).
- **isDisabledFeatureAPMA** - Identifies whether the Automatic Payment Method Adding feature is disabled.
- **flashMessages** - contains messages to show.

6.2 Logs

This integration introduces a few new custom logs:

- **Braintree Custom logs** - Such as the Custom-Braintree-blade2-2-appserver-20151122.log. This Log file contains all errors exposed by the int_braintree cartridge.
- **Service communication logs** - These logs contain every request and response to the Braintree endpoint. To enable these logs, go to **Administration > Operations > Services > int_braintree.http.graphql.payment.Braintree** and check the **Communication Log Enabled** preference. For example, service-Braintree_service-blade2-3-appserver-20151224.log, shown in Figure 6.2.1, is one of the service communications logs.



[service-Braintree_service-blade2-3-appserver-20151221.log](#)
[service-Braintree_service-blade2-3-appserver-20151222.log](#)
[service-Braintree_service-blade2-3-appserver-20151223.log](#)
[service-Braintree_service-blade2-3-appserver-20151224.log](#)
[service-Braintree_service-blade2-3-appserver-20151225.log](#)
[service-Braintree_service-blade2-3-appserver-20151228.log](#)

Figure 6.2.1. Braintree Communication Log Example

All log files can be found in the Logs folder (under **Administration > Site Development > Development Setup > Logs**).

6.3 Availability

You can track availability by service status in the Commerce Cloud Business Manager. (Go to **Administration > Operations > Service Status > int_braintree.http.graphql.payment.Braintree.**) See Figure 6.3.1.

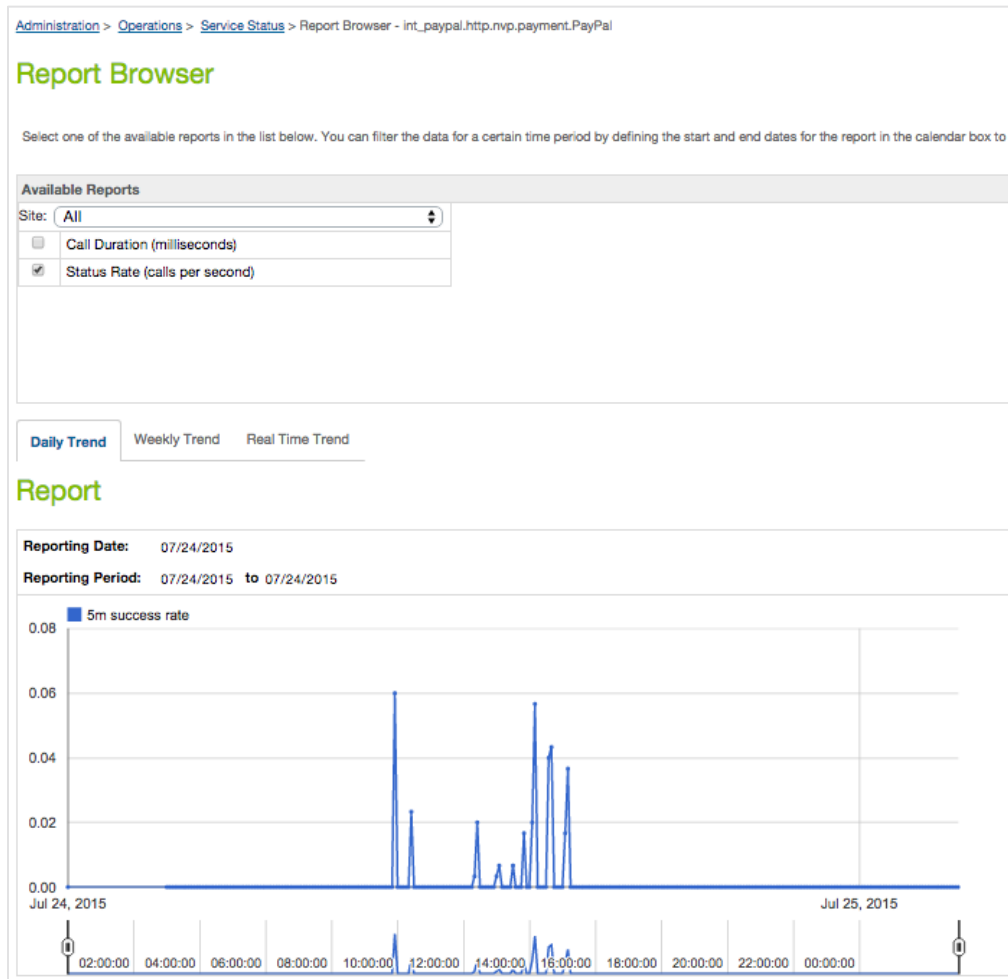


Figure 6.3.1. Braintree Service Availability Chart

6.4 Support

Here's how to get Braintree help and support:

- [Contact Braintree support via email.](#)
- Go to the [Braintree Support home page.](#)

6.5 Jobs and the Batch Process

The Braintree cartridge introduces four scheduled jobs:

- [BraintreeUpdateOrders](#)
- [BraintreeImportPaymentMethodTokens](#)
- [SynchronizeCustomers](#)
- [SendFailedTransactionEmail](#)
- [BraintreeSynchronizePaymentMethodTokens](#)

- [CreateTransactionReport](#)

6.5.1 BraintreeUpdateOrders

The BraintreeUpdateOrders job synchronizes payment statuses from the Braintree Vault with all Commerce Cloud order transactions related to Braintree for the assigned site (See Figure 6.5.1). You must ensure that the needed site is assigned to the job schedule. To do so, go to **Administration > Operations > Job Schedules > BraintreeUpdateOrders** in Business Manager.

This job is scheduled to run once per hour.

NOTE: Recurring schedules don't apply on the SIG instances. A schedule will be valid only for the primary instance group (Development, Staging, or Production). Therefore, if you want to synchronize payment statuses on the developer's Sandbox, you should invoke the job manually each time.

The only parameter that the BraintreeUpdateOrders job modifies is `Order.custom.braintreePaymentStatus`.

The screenshot shows the configuration page for the BraintreeUpdateOrders job. The breadcrumb navigation is "Administration / Operations / Job Schedules / BraintreeUpdateOrders". The page has tabs for "General", "Schedule and History", "Resources", "Step Configurator", "Notification", and "Failure Handling". The "General" tab is active, showing the job is "Enabled". The "Trigger" is set to "Recurring Interval". The "From" date is "6/2/2017 1:46 pm" and the "To" date is empty. The "Run Time" is set to "Every 1" "Interval" of "Hours". The "Run only on these days" section shows checkboxes for "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", and "Sunday", all of which are unchecked. The "History" section shows a table with columns: ID, Execution Scope, Status, Start Time, End Time, Duration, and Log File. The table contains one entry for "BraintreeUpdateOrders" with an execution scope of "2", status of "OK", start time of "6/2/2017 1:55 pm", end time of "6/2/2017 1:55 pm", and duration of "00:00:13". There is an "Auto-refresh" checkbox and a "Log File" link in the header of the history table.

Figure 6.5.1 Braintree BraintreeUpdateOrders Job

6.5.2 BraintreeImportPaymentMethodTokens

The BraintreeImportPaymentMethodTokens job reads an input .csv file from the Commerce Cloud IMPEX directory and updates customers' wallets with Braintree payment method tokens. For each customer, the job creates a customer payment instrument with a payment method type CREDIT_CARD record. This record has dummy values, except for the `custom.braintreePaymentMethodToken` custom property. This property indicates that the actual Customer Payment Instrument is tokenized to the Braintree side.

After importing tokens, customers will be able to check out (make a payment) using imported payment methods.

The BraintreeImportPaymentMethodTokens job modifies the property CustomerPaymentInstrument.PaymentInstrument.custom.braintreePaymentMethodToken.

This job can accept the following job parameters:

- **file_name** - An input file short name without a path (impex/src/Braintree will be prepended automatically). If no parameter is provided, “braintree_payment_tokens.csv” will be used as the file name.
- **ignore_exist_tokens** - A Boolean flag that indicates whether the check for existing tokens should be skipped. If the check is skipped, this may cause duplicated payment methods (if a method with token already exists).
- **remove_file** - A Boolean flag that indicates whether the import file should be removed after processing.
- **clean_wallet** - A Boolean flag that indicates whether all customers' saved methods should be removed before import. If this parameter is set to True, all customers' saved payment methods will be removed before importing. This parameter is useful for replacing existing saved methods.

Boolean flags can accept two states: “True” is true, and everything else will be interpreted as false.

NOTE: Parameter settings aren't shipped with the job. You must fill them manually using the Business Manager interface (as shown in Figure 6.5.2).

Administration / Operations / Job Schedules /

BraintreeImportPaymentMethodTokens

General Schedule and History Resources Step Configurator Notification Failure Handling

Global Parameters 0

Scope: Organization

BraintreeImportPaymentMethodTokens

Select and configure step

ID* BraintreeImportPaymentMethodTokens

Description

ExecutePipeline.Pipeline* Braintree-ImportPaymentMethodTokens Global Parameters

☐ Restart Enforced

Custom Parameters

ID*	Value*	
file_name	braintree_payment_token	✕
ignore_exist_tokens	true	✕
remove_file	false	✕
clean_wallet	false	✕
		⊕

Back Assign

Figure 6.5.2 Braintree BraintreeImportPaymentMethodTokens Job Parameters

This job supports four credit card types:

- Visa

- MasterCard
- American Express
- Discover

To ensure that the buyer can check out with those credit card types, make sure that:

- All of them are listed in the Credit Card Payment Method settings, and
- BRAintree_CREDIT is selected as the payment processor, as shown in Figure 6.5.3.

Payment methods are managed here. To create a new payment method, click the **New** button. To remove a payment method click the remove icon in the payment method row. The default payment methods cannot be removed, and their IDs cannot be changed. When you select the CREDIT_CARD payment method, credit/debit cards can be reordered through drag and drop.

Language: Default

ID	Name	Enabled	Sort Order
BANK_TRANSFER	Bank Transfer	No	1
BML	PayPal Credit	Yes	5
CREDIT_CARD	Credit Card	Yes	3
GIFT_CERTIFICATE	Gift Certificate	Yes	2
PayPal	PayPal	Yes	4

CREDIT_CARD Details

Description:

Image: [HTML Editor](#) [Select](#)

Payment Processor: **BRAintree_CREDIT <BRAintree_CREDIT>**

Countries: All [Edit](#)

Currencies: All [Edit](#)

Customer Groups: All [Edit](#)

Min/Max Payment Ranges: **Min/Max Payment Ranges**

¥ to

Figure 6.5.3. Braintree Processor Selected for CREDIT_CARD Method

NOTE: Use only the credit card type IDs shown in Figure 6.5.4 (for example, “Amex” rather than “AMEX” or “AmericanExpress”). Otherwise, buyers won’t be able to check out due to Commerce Cloud internal credit card validations.

CREDIT_CARD Details

Min/Max Payment Ranges: **Min/Max Payment Ranges**

¥ to

€ to

¥ to

\$ to

Credit/Debit Cards:

	Type	Name
1	Master	Master Card
2	Visa	Visa
3	Amex	American Express
4	Master Card	MasterCard
5	Discover	Discover
6	DinersClub	Diners Club International
7	Mastercard	Mastercard
8	American express	American Express

Figure 6.5.4. Credit Card Type IDs

6.5.3 SynchronizeCustomers

The functionality of this job is to create a backup of current SFCC customers at the first launch. And with each subsequent launch, it compares the customer data from the created backup with existing customers on the SFCC side at that current moment. When detecting a buyer who no longer exists (was deleted on the SFCC side), it makes a request to the Braintree side to delete this customer.

Read a more detailed description of the work of each job step below.

The SynchronizeCustomers job consists of two job steps:

- synchronizeCustomers
- createCustomersBackup

synchronizeCustomers job step

Custom.SynchronizeCustomers ?

Context: Site

ID*

synchronizeCustomers

Description

CustomerBackupPath*

IMPEX/src/jobSynchronizeCustomers/customersBacku [Job Parameters](#)

FileReportPath*

IMPEX/src/jobSynchronizeCustomers/synchronize-cus [Job Parameters](#)

☐ Always execute on restart.

Exit Status Rules

On	Action	Continue With
OK	→ Continue With	Next Step ✕
ERROR	→ Stop Flow	✕

[Add Rule](#)

Figure 6.5.5. synchronizeCustomers parameters

This job step can accept the following parameters (Figure 6.5.5. synchronizeCustomers parametersFigure 6.5.5):

- **CustomerBackupPath** - an input customer backup file name with a path. If no parameter is provided, “IMPEX/src/jobSynchronizeCustomers/customersBackup/customers-backup.csv” will be used.
- **FileReportPath** - an input customer synchronizing report file name with a path. If no parameter is provided, “IMPEX/src/jobSynchronizeCustomers/synchronize-customers-{DateTime}.csv” will be used.

The current job step checks whether the customer backup file exists at the path specified in CustomerBackupPath parameter.

If not, this job step completes its execution and the next job step starts his executing.

If the customer backup file exists, then we check every customer from this file about whether it exists now on the SFSS side (or has it been deleted). And in a customer was deleted, we send the request to Braintree's side to delete this customer there.

After customer checking, we create a report with customers' statuses and Braintree responses for backup customers using FileReportPath parameter and archives customer backup file.

createCustomersBackup job step

Custom.CreateCustomersBackup ⓘ

Context: Site

ID*

createCustomersBackup

Description

CustomerBackupPath*

IMPEX/src/jobSynchronizeCustomers/customersBackup [Job Parameters](#)

☐ Always execute on restart.

Exit Status Rules

On	Action	Continue With
OK	→ Continue With	Next Step ×
ERROR	→ Stop Flow	×

[Add Rule](#)

Figure 6.5.6. createCustomersBackup parameters

This job step can accept the following parameter (Figure 6.5.6):

- **CustomerBackupPath** - an input customer backup file name with a path. If no parameter is provided, “IMPEX/src/jobSynchronizeCustomers/customersBackup/customers-backup.csv” will be used.

The current job step creates the customer backup file that exists at the path specified in CustomerBackupPath parameter.

6.5.4 SendFailedTransactionEmail

SendFailedTransactionEmail job checks transaction statuses for specified period of time. In case it finds appropriate status, it will send an email to the specified address with transaction statuses and amount of such transactions. If there are no such transactions, then email will not be sent and respective log will be recorded. The purpose of this job is to give merchants ability to receive emails regarding the failed transaction in order to be aware of it and quickly make a certain decision.

This job can accept the following job parameters:

- **Email** - email address that is used for sending alerts.

- **DaysToRetrieve** - the period for which you need to check transaction statuses (number of days).
- **StatusesToCheck** - the statuses that will be considered to be checked, namely. For example: PROCESSOR_DECLINED, GATEWAY_REJECTED, FAILED.
- **AlertsInBM** - activates alerts for failed transactions in Business Manager (default: true)

All possible statuses:

AUTHORIZED, AUTHORIZATION_EXPIRED, AUTHORIZING, SETTLEMENT_PENDING, SETTLEMENT_DECLINED, FAILED, GATEWAY_REJECTED, PROCESSOR_DECLINED, SETTLED, SETTLING, SUBMITTED_FOR_SETTLEMENT, VOIDED, SETTLEMENT_CONFIRMED, REFUND SUBMITTED_FOR_SETTLEMENT, REFUND SETTLING, REFUND SETTLED, PARTIAL REFUND SUBMITTED_FOR_SETTLEMENT, PARTIAL REFUND SETTLING, PARTIAL REFUND SETTLED

NOTE: Statuses in StatusesToCheck parameter have to be specified as it shown in example: in uppercase and with commas between the statuses

NOTE: For some cases status is not updated until merchants open transaction details of specific transaction. The most common problem case is “submit for settlement” action in Business Manager when merchant could receive status SETTLEMENT_DECLINED and won’t receive notification after status change on Braintree side. There is [transaction_settlement_declined](#) webhook that would be possible to use for this case, but It only supports ACH and SEPA Direct Debit Transaction: Sale and Transaction: Refund requests.

NOTE: Parameter settings aren’t shipped with the job. Only DaysToRetrieve parameter has default value '7' and AlertsInBM value is 'true'. Other parameters have to be filled manually using the Business Manager interface (as shown in Figure 6.5.7).

Select and Configure Step

Custom.BraintreeSendFailedTransactionEmail ⓘ

Context: Site

ID*

BraintreeSendFailedTransactionEmail

Description

Email

user@salesforce.com [Job Parameters](#)

DaysToRetrieve*

7 [Job Parameters](#)

StatusesToCheck*

FAILED, GATEWAY_REJECTED, PROCESSOR_DECLINE [Job Parameters](#)

☒ AlertsInBM [Job Parameters](#)

Figure 6.5.7 sendFailedTransactionEmail parameters

NOTE: In case of large amount of orders, suggest running the job more often to prevent from possible sandbox overload and performance decrease.

NOTE: To see alert notifications in BM, you need to configure it. Go to **Administration > Operations > Notification Settings**. Find section **Braintree Plugin > Transactions** and choose where you want your alerts to appear (as shown in Figure 6.5.8).

[Administration > Operations](#) > Notifications

Configure Business Manager Notifications and Channels

Keep your systems running smoothly by notifying your teams when something needs their attention. You can configure the types of alerts that your teams receive and where they receive these alerts, such as email or Slack.

Settings Slack

Event	Business Manager	Slack Channel
Braintree Plugin		
> Transactions	2 options selected Header X Homepage X	Select a channel

Checks the Transactions Module to see if there are any transactions with failed statuses.

Figure 6.5.8 Notification settings

6.5.5 CreateTransactionReport

CreateTransactionReport job generates report and sends it to the provided email. Job is using in the [Braintree Transaction Report](#) functionality. And cannot be performed separately.

NOTE: To run job, you should configure [Plugin exports](#)

6.5.6 BraintreeSynchronizePaymentMethodTokens

The BraintreeSynchronizePaymentMethodTokens job synchronizes payment instruments from the Braintree Vault with the accounts saved to the customer's wallet. You must ensure that the needed site is assigned to the job. To do so, go to **Administration > Operations > Jobs >**

BraintreeSynchronizePaymentMethodTokens in Business Manager (as shown in Figure 6.5.9).

The screenshot shows the configuration page for the BraintreeSynchronizePaymentMethodTokens job. At the top, there is a breadcrumb trail: Administration / Operations / Jobs /. Below this, the job name 'BraintreeSynchronizePaymentMethodTokens' is displayed with a help icon, and a 'Run Now' button is on the right. A tabbed interface below the job name has 'General' selected, with other tabs for 'Schedule and History', 'Resources', 'Job Steps', 'Failure Handling', and 'Notification'. The 'ID*' field contains 'BraintreeSynchronizePaymentMethodTokens'. The 'Description' field contains 'Job to handle discrepancies between customer wallet and Braintree vault'. The 'Priority' section shows 'Normal' selected with a radio button, and 'High' is also available.

Figure 6.5.9 BraintreeSynchronizePaymentMethodTokens Job

NOTE: Job fetches data of all customers from the Braintree Vault. Depending on the volume and amount of data, this might create temporary inconveniences for the customers. To minimize any potential negative impact on the user experience, it is optimal to run this job on non-working days or during periods of lowest customer activity.

NOTE: The job is designed to work on a particular storefront site. However, when the job is executed, it searches for customers from the Braintree side on the SFCC side, customer search is not site specific. Therefore, there is no need to run the job for all sites individually. Instead, it will go through all the customers retrieved from Braintree and compare them with all customers on the SFCC instance.

Errors that may occur during job execution:

- Error while executing the query;
- No customers found;
- Error occurred during payment method token deletion.

6.6 Plugin service connection testing

To test whether Braintree service (int_braintree.http.graphql.payment.Braintree) has been configured successfully, go to **Merchant Tools > Braintree plugin > Preference configuration** and click the **Test connection with Braintree** button.

The screenshot shows the Braintree Merchant Tools interface. At the top, there's a navigation bar with 'RefArch', 'Merchant Tools' (selected), 'Administration', 'Storefront', and 'Toolkit'. Below this is a search bar with 'Cache', 'Search Indexes', 'Code Versions', and 'Cartridge Path' filters. The main content area has two buttons: 'Generate Plugin Configuration' (green) and 'Test connection with Braintree' (blue). Below these are tabs for 'General' (selected), 'Credit Card', 'PayPal', 'Apple Pay', 'Google Pay', 'Secure Remote Commerce', and 'Venmo'. The 'Braintree General' section includes an 'Instance Type' dropdown set to 'Sandbox'. There's a 'Search by ID' input field with a search icon. Below that is a table with columns 'Name' and 'Value'. The table has one row labeled 'Merchant Account IDs' with an empty input field next to it.

Figure 6.6.1. Test connection with Braintree button

If the service has been configured correctly, you'll get a success message, otherwise, an error will be shown.

6.7 Plugin configuration exports (optional)

To properly troubleshoot the Braintree plugin, you might need to collect plugin configurations and this feature allows you to do so in a few clicks and have needed data zipped and downloaded to your device.

The downloads will include:

1. List of Braintree custom preferences
2. List of Braintree services
3. Enabled payment methods and payment processors
4. Braintree plugin logs
5. General data like SFRA version, plugin version, Braintree/Drop-In SDK version, instance type and compatibility mode

Additionally, Braintree service connection will be tested to ensure that Braintree service is configured correctly.

After the feature is set up (details in chapter 3.8 Plugin configuration exports), click on **Generate Plugin Configuration** button in Merchant tools > Braintree plugin > Preference configuration.

In the popup check the items you'd like to download. If none is selected, only general data will be generated.

The zip file will be downloaded into the location chosen in your browser downloads settings.

Once everything is downloaded, you'd get a success message, otherwise an error will be shown.

NOTE: Downloaded files might contain sensitive data, thus before sending them to a 3rd party, look through the files.

The screenshot shows the Braintree Merchant Tools interface. At the top, there's a navigation bar with 'RefArch', 'Merchant Tools', 'Administration', 'Storefront', and 'Toolkit'. Below this is a search bar with 'Cache', 'Search Indexes', 'Code Versions', and 'Cartridge Path'. The main content area has two buttons: 'Generate Plugin Configuration' (highlighted with a red underline) and 'Test connection with Braintree'. Below these buttons are tabs for 'General', 'Credit Card', 'PayPal', 'Apple Pay', 'Google Pay', 'Secure Remote Commerce', and 'Venmo'. The 'General' tab is selected, showing the 'Braintree General' section. Under 'Instance Type', there's a dropdown menu set to 'Sandbox'. Below this is a search bar labeled 'Search by ID'. At the bottom, there's a table with columns 'Name' and 'Value', and a row labeled 'Merchant Account IDs'.

Figure 6.7.1. Generate Plugin Configuration button

The screenshot shows a 'Generate Plugin Configurations' popup dialog. The dialog has a title bar with a close button. Inside, it says 'Please select the plugin configurations which will be generated into the zip file:'. There are five checkboxes, all of which are checked: 'Custom site preferences', 'List of services added to Business Manager', 'Payment methods that are enabled in the Business Manager', 'Braintree plugin logs', and 'Test connection with Braintree'. Below these checkboxes is a section labeled 'Export file to:' with a text input field containing 'plugin_configurations.zip'. At the bottom of the dialog, there's a light blue box with the text 'Please follow the Braintree integration guide in order to properly configure and use this functionality.' and two buttons: 'Submit' and 'Cancel'.

Figure 6.7.2. Generate Plugin Configuration popup

7 User Guide

7.1 Roles and Responsibilities

PayPal and Braintree introduced no new roles with this integration. You'll need to update existing roles or create and update new ones if you want to use the Business Manager extensions, including Braintree Transactions and Braintree Customers.

7.2 Business Manager

This integration introduces a new Business Manager function, Braintree Transactions, Preference Configuration and Braintree button styles configuration. See the section "Configuration" in this document for a detailed description of how to grant access to the Braintree Transactions, Preference Configuration, Braintree Customers pages and Braintree button styles configuration.

Braintree Transactions extension provides an interface for Braintree transactions management assigned to Commerce Cloud Orders.

Preference Configuration extension provides an interface for configuring custom site preferences.

Braintree Customers extension provides an interface managing vaulted customers.

Braintree button styles configuration extension provide ability to change styling for PayPal buttons enabled on a storefront.

7.2.1 Braintree Transactions

The main Braintree Transactions page displays all orders from the Commerce Cloud Site which are authorized by Braintree (See Figure 7.2.1).

To access this page, select **Merchant Tools > Braintree Plugin > Transactions**.

This page displays various information from the order record:

- Order Number
- Order Date
- Customer
- Order Total
- PayPal Amount
- Payment Method
- Order Status
- PayPal Payment Status
- BT Fraud Tool Review

Braintree Transactions

This page allows you to search for orders which have Braintree transactions by order number. Also there is possibility to search Braintree transaction by id.

Transactions statistics

323 Authorized transactions

180 Settled transactions

9 Settlement pending transactions

86 Settling transactions

40 Submitted for settlement transactions

31 Voided transactions

133 Authorization expired transactions

1 Failed transaction

64 Processor declined transactions

9 Settlement declined transactions

249 N/A transactions

Search Order

By Payment Status

By Order Number

By Transaction ID

By Payment Method

By Fraud Review Status

Order Number:

Find

Payment Status and Amounts may take up to an hour to update.

Please click on an 'Details' button to get actual order details.

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review	
00033305	Mar 23, 2023 10:28 am	Customer Customer	\$99.74	\$99.74	Credit Card	NEW	Submitted for settlement	Rejected	Details
00033214	Mar 23, 2023 9:35 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033213	Mar 23, 2023 9:09 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033212	Mar 23, 2023 9:06 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033211	Mar 23, 2023 9:03 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033210	Mar 23, 2023 8:44 am	Name Paypal	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable	Details
00033209	Mar 23, 2023 8:39 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Not evaluated	Details
00033208	Mar 23, 2023 8:03 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033207	Mar 23, 2023 7:58 am	Name Paypal	\$99.74	\$99.74	Secure Remote Commerce	NEW	Submitted for settlement	For review	Details
00033206	Mar 23, 2023 7:56 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Voided	Rejected	Details

Showing 11 - 20 of 1,169 items.

Show

50

100

1000

All

 items

<<

Previous

1

2

3

4

5

6

...

117

Next

 >>

<< Back to Ordering

New Transaction from Vault

Figure 7.2.1 Braintree Transactions Page Interface

The transaction statistics block shows the total number of all transactions (as shown in Figure 7.2.2).

Braintree

A PayPal Service

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Braintree Transactions

This page allows you to search for orders which have Braintree transactions by order number. Also there is possibility to search Braintree transaction by id.

Transactions statistics

Search Order

By Payment Status

By Order Number

By Transaction ID

By Payment Method

By Fraud Review Status

323 Authorized transactions

180 Settled transactions

9 Settlement pending transactions

86 Settling transactions

40 Submitted for settlement transactions

31 Voided transactions

133 Authorization expired transactions

1 Failed transaction

64 Processor declined transactions

9 Settlement declined transactions

249 N/A transactions

Order Number:

Find

Payment Status and Amounts may take up to an hour to update.

Please click on an 'Details' button to get actual order details.

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review	
00033305	Mar 23, 2023 10:28 am	Customer Customer	\$99.74	\$99.74	Credit Card	NEW	Submitted for settlement	Rejected	Details
00033214	Mar 23, 2023 9:35 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033213	Mar 23, 2023 9:09 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033212	Mar 23, 2023 9:06 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033211	Mar 23, 2023 9:03 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033210	Mar 23, 2023 8:44 am	Name Paypal	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable	Details
00033209	Mar 23, 2023 8:39 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Not evaluated	Details
00033208	Mar 23, 2023 8:03 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033207	Mar 23, 2023 7:58 am	Name Paypal	\$99.74	\$99.74	Secure Remote Commerce	NEW	Submitted for settlement	For review	Details
00033206	Mar 23, 2023 7:56 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Voided	Rejected	Details

Showing 11 - 20 of 1,169 items.

Show

50

100

1000

All

 items

<<

Previous

1

2

3

4

5

6

...

117

Next

 >>

<< Back to Ordering

New Transaction from Vault

Figure 7.2.2. Braintree Transactions Statistics

You can perform a search for Orders authorized by Braintree, by Commerce Cloud Order Number, Braintree Transaction ID, Payment Method, Payment Status or by Fraud Review Status as shown in Figure 7.2.3, Figure 7.2.4, Figure 7.2.5, Figure 7.2.6, Figure 7.2.7.

Transactions statistics

Search Order

By Payment Status

By Order Number

By Transaction ID

By Payment Method

By Fraud Review Status

323 Authorized transactions

180 Settled transactions

9 Settlement pending transactions

86 Settling transactions

40 Submitted for settlement transactions

31 Voided transactions

133 Authorization expired transactions

1 Failed transaction

64 Processor declined transactions

9 Settlement declined transactions

249 N/A transactions

Order Number: 00033411 Find

Payment Status and Amounts may take up to an hour to update.

Please click on an 'Details' button to get actual order details.

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review
00033411	Mar 24, 2023 11:58 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Voided	Rejected Details

Figure 7.2.3. Search Orders with Braintree Transaction Associated by Commerce Cloud Order Number

Transactions statistics

Search Order

By Payment Status

By Order Number

By Transaction ID

By Payment Method

By Fraud Review Status

323 Authorized transactions

180 Settled transactions

9 Settlement pending transactions

86 Settling transactions

40 Submitted for settlement transactions

31 Voided transactions

133 Authorization expired transactions

1 Failed transaction

64 Processor declined transactions

9 Settlement declined transactions

249 N/A transactions

Transaction ID: h5ptzgvc Find

Payment Status and Amounts may take up to an hour to update.

Please click on an 'Details' button to get actual order details.

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review
00033411	Mar 24, 2023 11:58 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Voided	Rejected Details

Figure 7.2.4. Search Orders with Braintree Transaction by PayPal Transaction ID

Transactions statistics

Search Order

By Payment Status

By Order Number

By Transaction ID

By Payment Method

By Fraud Review Status

323 Authorized transactions

180 Settled transactions

9 Settlement pending transactions

86 Settling transactions

40 Submitted for settlement transactions

31 Voiced transactions

133 Authorization expired transactions

1 Failed transaction

64 Processor declined transactions

9 Settlement declined transactions

249 N/A transactions

Payment Method:

PayPal

Find

Payment Status and Amounts may take up to an hour to update.

Please click on an 'Details' button to get actual order details.

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review
00033405	Mar 24, 2023 9:23 am	Paul Lorens	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033307	Mar 23, 2023 10:38 am	Name Paypal	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033210	Mar 23, 2023 8:44 am	Name Paypal	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033030	Mar 21, 2023 1:23 pm	Paul Lorens	\$99.74	\$99.74	PayPal	NEW	Authorized	Not evaluated Details
00033028	Mar 21, 2023 1:04 pm	Credit Card	\$99.74	\$99.74	PayPal	NEW	Authorized	Not evaluated Details
00033027	Mar 21, 2023 1:01 pm	Credit Card	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033026	Mar 21, 2023 12:58 pm	Credit Card	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033025	Mar 21, 2023 12:57 pm	Credit Card	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033024	Mar 21, 2023 12:51 pm	Credit Card	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033021	Mar 21, 2023 12:44 pm	Paul Lorens	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details

Showing 1 - 10 of 614 items.

Show

50

100

All

items

[1]

2

3

4

5

6

...

62

Next

>>

Figure 7.2.5 Search Orders with Braintree Transaction by Payment Method

Transactions statistics

Search Order **By Payment Status** By Order Number By Transaction ID By Payment Method By Fraud Review Status

323 Authorized transactions
180 Settled transactions
9 Settlement pending transactions
86 Settling transactions
40 Submitted for settlement transactions
31 Voided transactions
133 Authorization expired transactions
1 Failed transaction
64 Processor declined transactions
9 Settlement declined transactions
249 N/A transactions

Payment Status and Amounts may take up to an hour to update.
Please click on an 'Details' button to get actual order details.

Payment Status: Authorized Find

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review
00033410	Mar 24, 2023 11:18 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033409	Mar 24, 2023 11:15 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033407	Mar 24, 2023 9:24 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected Details
00033406	Mar 24, 2023 9:24 am	Customer Customer	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033405	Mar 24, 2023 9:23 am	Paul Lorens	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033308	Mar 23, 2023 10:39 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected Details
00033307	Mar 23, 2023 10:38 am	Name Paypal	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable Details
00033306	Mar 23, 2023 10:36 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033214	Mar 23, 2023 9:35 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected Details
00033213	Mar 23, 2023 9:09 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected Details

Showing 1 - 10 of 323 items. Show 50 100 All items (1) 2 3 4 5 6 ... 33 Next >>

<< Back to Ordering New Transaction from Vault

Figure 7.2.6. Search Orders with Braintree Transaction by Payment Status

Transactions statistics

Search Order By Payment Status By Order Number By Transaction ID By Payment Method **By Fraud Review Status**

323 Authorized transactions
180 Settled transactions
9 Settlement pending transactions
86 Settling transactions
40 Submitted for settlement transactions
31 Voided transactions
133 Authorization expired transactions
1 Failed transaction
64 Processor declined transactions
9 Settlement declined transactions
249 N/A transactions

Payment Status and Amounts may take up to an hour to update.
Please click on an 'Details' button to get actual order details.

Fraud Review Status: Accepted Find

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review
00033410	Mar 24, 2023 11:18 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033409	Mar 24, 2023 11:15 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033406	Mar 24, 2023 9:24 am	Customer Customer	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033306	Mar 23, 2023 10:36 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details
00033115	Mar 22, 2023 2:42 pm	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Voided	Accepted Details
00033113	Mar 22, 2023 2:15 pm	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Accepted Details

Figure 7.2.7. Search Orders with Braintree Transaction by Fraud Review Status

To view transaction from details the Braintree Payment Transaction of the actual order, a merchant can click the **Order Number** or **Details** link on the right. If an order has more than one related transaction, a Transaction Details pop-up window displays all transactions (including refunds) related to the current order (as shown in Figure 7.2.8).

Transactions of order: 00033410

Order Number: 00033410

Customer Name: Name Paypal

Customer Email: pptest@gmail.com

Customer ID: 57550000264

Shipping Address: Paul Lorens
2253 Hudson Street,
Denver, CO 80207
USA

Payment Method CREDIT_CARD

Amount Left To Settle: 99.74 USD

Transaction ID: dmtp0ft3

Amount: 99.74 USD

Order Date: 3/24/23 11:18 am

Payment Status: Authorized

BT Fraud Tool Review: Accepted

Submit For Settlement

Void

Transaction History

Timestamp	Status	Amount
3/24/23 11:18 am	Authorized	99.74

Transaction Logs

> [Request to Braintree](#)

> [Response from Braintree](#)

Figure 7.2.8. Transaction Details Pop-up

You can submit them for settlement authorized transactions (see Figure 7.2.9) Braintree supports multiple settlements. A merchant can perform partial settlements until authorization is fulfilled. To perform multiple partial settlements, the merchant must submit a transaction for settlement, then use

the Transaction Details pop-up to create a new transaction for any further settlements. (See Figure 7.2.10)

Transactions of order: 00007304

Order Number: 00007304

Settle Transaction Customer Name: Leonardo K. Cavanaugh

Settle Transaction: bwyqx7

Customer Name: Leonardo K. Cavanaugh

Customer Email: LillianCFarnsworth@dayrep.com

Full Settle Amount: 1118.48 USD

Partial Settle Amount: 10 USD

Transaction can be submit to settlement only once.
If the field **Partial Settle Amount** is empty, full amount of the transaction will be settled.

Submit Cancel

Timestamp	Status	Amount
2/23/16 9:59 am	Authorized	1118.48

Figure 7.2.9. Settle Transaction Option on Transaction Details Pop-up

Transactions of order: 00007304

Order Number: 00007304

New transaction for order 00007304 Customer Name: Leonardo K. Cavanaugh

New transaction for order 00007304

Customer Name: Leonardo K. Cavanaugh

Customer Email: LillianCFarnsworth@dayrep.com

Authorized Amount: 1,118.48 USD

Settled Amount: 10 USD

Left to Settle: 1,108.48 USD

Transaction Amount: 50 USD

New transaction will be created in the scope of order and atached to the orders history.

Submit Cancel

Timestamp	Status	Amount
2/23/16 9:59 am	Authorized	1118.48
2/23/16 10:13 am	Submitted for settlement	10.00

Figure 7.2.10. New Transaction (Partial Settlements) Option on Transaction Details Pop-up

All additional transactions will be coupled with the order and listed on the Transaction Details Pop-Up under the History drop-down menu, shown in Figure 7.2.11).

Transactions of order: 00033305

Order Number: 00033305

Customer ID: 16771795681

Shipping Address: Customer Customer
1196 Cooks Mine Road,
Albuquerque, NM 87102
USA

Payment Method CREDIT_CARD

Amount Left To Settle: 99.74 USD

Transaction ID: 5gm9r3h0
History

Transaction 5gm9r3h0 ▾
Transaction 5gm9r3h0
Refund 9ytsh2jx

Amount: 99.74 USD

Order Date: 3/23/23 10:28 am

Payment Status: Settled

BT Fraud Tool Review: Rejected

Submit For Settlement

Transaction History

Timestamp	Status	Amount
3/23/23 11:08 am	Settled	99.74
3/23/23 10:35 am	Submitted for settlement	99.74
3/23/23 10:28 am	Authorized	99.74

Transaction Logs

> [Request to Braintree](#)

> [Response from Braintree](#)

Figure 7.2.11. New Transactions History Menu on the Transaction Details Pop-up

If you need to create a new transaction using the Payment Method token, use the New Transaction from Vault pop-up (See Figure 7.2.13). Partial Capture Transaction for non-PayPal transactions will create new transactions using token.

Braintree Transactions

This page allows you to search for orders which have Braintree transactions by order number. Also there is possibility to search Braintree transaction by id.

Transactions statistics

Search Order By Payment Status **By Order Number** By Transaction ID By Payment Method By Fraud Review Status

323 Authorized transactions
181 Settled transactions
9 Settlement pending transactions
86 Settling transactions
39 Submitted for settlement transactions
31 Voided transactions
133 Authorization expired transactions
1 Failed transaction
64 Processor declined transactions
9 Settlement declined transactions
249 N/A transactions

Order Number: [Find](#)

Payment Status and Amounts may take up to an hour to update.
Please click on an 'Details' button to get actual order details.

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review	
00033305	Mar 23, 2023 10:28 am	Customer Customer	\$99.74	\$99.74	Credit Card	NEW	Settled	Rejected	Details
00033214	Mar 23, 2023 9:35 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033213	Mar 23, 2023 9:09 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033212	Mar 23, 2023 9:06 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033211	Mar 23, 2023 9:03 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033210	Mar 23, 2023 8:44 am	Name Paypal	\$99.74	\$99.74	PayPal	NEW	Authorized	Not applicable	Details
00033209	Mar 23, 2023 8:39 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Not evaluated	Details
00033208	Mar 23, 2023 8:03 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Authorized	Rejected	Details
00033207	Mar 23, 2023 7:58 am	Name Paypal	\$99.74	\$99.74	Secure Remote Commerce	NEW	Submitted for settlement	For review	Details
00033206	Mar 23, 2023 7:56 am	Name Paypal	\$99.74	\$99.74	Credit Card	NEW	Voided	Rejected	Details

Showing 11 - 20 of 1,169 items. Show items << Previous 1 **2** 3 4 5 6 ... 117 Next >>

[<< Back to Ordering](#) [New Transaction from Vault](#)

Figure 7.2.12. Transaction List with New Custom Transaction Buttons

New Transaction

Payment Details:

Currency: ▼

Payment Method Token:

Amount:

Tax:

Custom Fields:

Example: customfieldone:value,
customfieldtwo:value

Figure 7.2.13. New Transaction from Vault Pop-up

To view request and response log data for a particular transaction, use the Transaction Details window and the Transaction Logs section. This will help you analyze the information in more detail (Figure 7.2.14).

Transactions of order: 00033207

229j07m5

Denver, CO 80207
USA

Payment Method SRC

Transaction ID: 229j07m5

Amount: 99.74 USD

Order Date: 3/23/23 7:58 am

Payment Status: Settled

BT Fraud Tool Review: For review

Refund

Transaction History**Transaction Logs**

Request to Braintree

This section contains requests to Braintree which were made for transaction creation

```
{  
  "query": "mutation  
  CaptureTransaction($input:  
  CaptureTransactionInput!) {
```

Response from Braintree

This section contains responses from Braintree which were made for transaction creation

```
{  
  "error": false,  
  "data": {  
    "captureTransaction": {
```

Figure 7.2.14. Transaction Logs

To view the updated payment status for a bunch of orders, click on Update Transactions Statuses button, which will update statuses for all orders currently viewable on the page (Figure 7.2.15).

Braintree Plugin > Braintree Transactions

Braintree Transactions

This page allows you to search for orders which have Braintree transactions by order number. Also there is possibility to search Braintree transaction by id.

Transactions statistics


- 80 Authorized transactions
- 1 Partial refund settled transaction
- 1 Partial refund submitted for settlement transaction
- 5 Refund settled transactions
- 1 Refund settling transaction
- 174 Settled transactions
- 1 Settlement pending transaction
- 2 Submitted for settlement transactions
- 54 Voided transactions
- 251 Authorization expired transactions
- 5 Gateway rejected transactions
- 29 Processor declined transactions
- 4 Settlement declined transactions
- 248 N/A transactions

Search Order

By Payment Status
By Order Number
By Transaction ID
By Payment Method
By Fraud Review Status

Fraud Review Status: For review Find

Payment Status and Amounts may take up to an hour to update.
Please click on an 'Details' button to get actual order details.


Update Transactions Statuses

Order Number	Order Date	Customer	Order Total	Amount	Payment Method	Order Status	Payment Status	BT Fraud Tool Review
00009802	May 31, 2023 12:49 pm	Mariana Berkii	\$37.79	\$37.79	Credit Card	NEW	Voided	For review Details
00009801	May 31, 2023 12:48 pm	Mariana Berkii	\$37.79	\$37.79	Credit Card	NEW	Settled	For review Details
00009639	May 29, 2023 4:55 pm	Marry Gray	\$37.79	\$37.79	Credit Card	NEW	Partial refund settled	For review Details
00009638	May 29, 2023 4:53 pm	Card Holder	\$103.94	\$103.94	GooglePay	NEW	Refund settling	For review Details
00009637	May 29, 2023 4:52 pm	Card Holder	\$44.09	\$44.09	GooglePay	NEW	Settled	For review Details
00009636	May 29, 2023 4:52 pm	Mariana Berkii	\$37.79	\$37.79	Credit Card	NEW	Partial refund submitted for settlement	For review Details
00009635	May 29, 2023 4:51 pm	Mariana Berkii	\$37.79	\$37.79	Credit Card	NEW	Authorized	For review Details
00009634	May 29, 2023 4:50 pm	Mariana Berkii	\$60.88	\$60.88	Credit Card	NEW	Authorized	For review Details
00009632	May 29, 2023 4:42 pm	Stanislav Polskoi	\$44.09	\$44.09	ApplePay	NEW	Voided	For review Details
00009630	May 29, 2023 4:35 pm	Mariana Berkii	\$37.79	\$37.79	GooglePay	NEW	Submitted for settlement	For review Details

Showing 1 - 10 of 148 items. Show 50 100 All items 1 2 3 4 5 6 ... 15 Next >>

Figure 7.2.15. Update Transactions Statuses button

7.2.2 Braintree Styles Configuration

Braintree Button Styles Configuration allows to choose styling of the PayPal Smart Button, PayPal Pay Later messaging, Google Pay, Apple Pay and Connect with PayPal buttons from the Business Manager. After installation new menu item will appear in under Site Preferences in the Business Manager.

- PayPal: Depends on buttons locations styling will be available for pvp/pdp/mini-cart/cart/billing pages (Figure 7.2.16). To read more about styling options visit [Customize the PayPal Buttons](#). After configuration done click **Save Smart Button Configuration** to update styling.

PayPal
Google Pay
Apple Pay
Connect with PayPal

Choose a PayPal Button Location:

billing
billing
cart
minicart
pdp
pvp

rect

Choose a layout:

vertical

Choose a label:

checkout

Include a tagline:

false

Choose a height:

min: 25
35
max: 55

Save Smart Button configuration

PayPal Checkout

Debit or Credit Card

Powered by PayPal

Figure 7.2.16. PayPal Styles Configuration view

- Apple Pay: Depends on buttons locations styling will be available for cart and billing pages (Figure 7.2.17). To read more about styling options visit [Customize the Apple Button](#). After configuration done click **Save Button Style Configuration** to update styling.

Apple Pay Button Configuration

Choose a location

billing

Choose a color

white-outline

Donate with Apple Pay

Choose a type

donate

Save Button Style Configuration

Figure 7.2.17. Apple Pay Styles Configuration view

- Google Pay: Depends on buttons locations styling will be available for cart and billing pages (Figure 7.2.18) To read more about styling options visit [Customize the Google Pay Button](#). After configuration done click **Save Button Style Configuration** to update styling.

PayPal
Google Pay
Apple Pay

Google Pay Button Configuration

Choose a location

billing

Choose a color

white

Choose a type

checkout

Choose a size mode

fill

Save Button Style Configuration

Checkout with  Pay

Figure 7.2.18. Google Pay Styles Configuration view

- Connect with PayPal: Depends on buttons locations styling will be available for login and billing pages (Figure 7.2.19) To read more about styling options visit [Customize the Connect with PayPal Button](#). After configuration done click **Save Button Style Configuration** to update styling.

PayPal
Google Pay
Apple Pay
Connect with PayPal

Connect with PayPal Button Configuration

Choose a PayPal Button Location:

login

Choose a label:

Log in with PayPal

Choose a shape:

pill

Choose a size:

large

Choose a theme:

blue

Save Button Style Configuration


 Log in with PayPal

Figure 7.2.19. Connect with PayPal Configuration view

- PayPal Pay Later messaging: Depends on banner visibility you can configure styles for category, PDP and cart pages. For all available options please visit Layout and style. Please note in order to configure

banner styles configuration you should select the PayPal Pay Later Banner Location site preference.

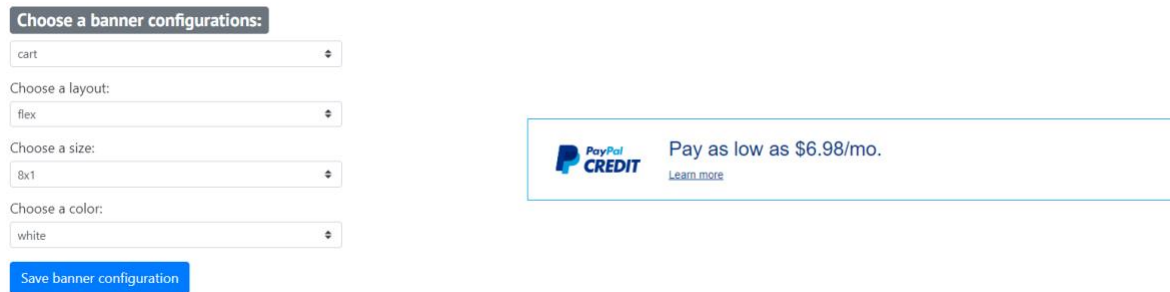


Figure 7.2.20. PayPal Pay Later messaging configuration view

7.2.3 Braintree Reports

The Braintree Reports page gives possibility to get transaction by filtering them.

To access this page, select **Merchant Tools > Braintree Plugin > Reports**.

Reports

Please note: in order to save the report export it to a CSV file.

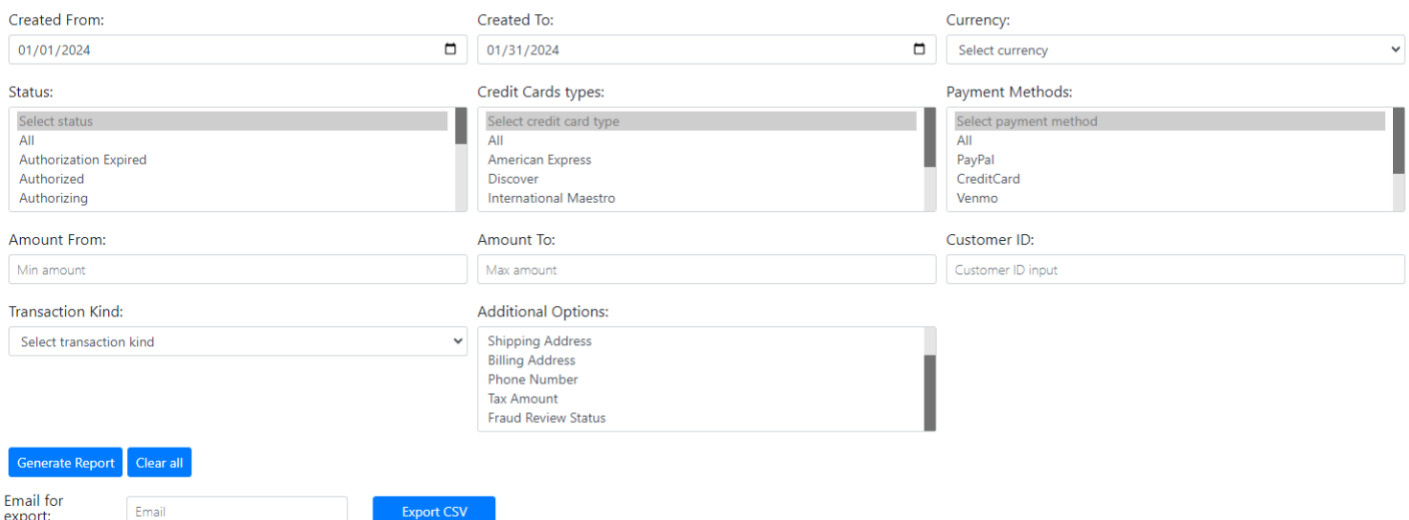


Figure 7.2.21. Reports Page

This page displays various filters for the report:

- Date (Created From, Create To)
- Currency
- Status
- Credit Card types
- Payment Methods
- Amount (Amount From, Amount To)
- Customer ID
- Transaction Kind

Default report columns:

- Transaction ID
- Customer ID
- Customer
- Order ID
- Amount
- Currency
- Kind
- Transaction Status
- Payment Method

Additional Options (columns) to display:

- Shipping Address
- Billing Address
- Phone Number
- Tax Amount
- Fraud Review Status

Transaction ID	Customer ID	Customer	Order ID	Amount	Currency	Kind	Transaction Status	Transaction Date	Payment Method
dHJhbnNhY3Rpb25fZjlleWR4NG0	Y3VzdG9tZXJfODk2MDI3NTkzNzM	Test Automation	00088503	185.83	USD	Sale	Authorized	29/1/2024, 11:3:2	PayPal
dHJhbnNhY3Rpb25fNWY3NWRoZ2c	Y3VzdG9tZXJfODk2MDI3NTkzNzM	Test Automation	00088502	185.83	USD	Sale	Authorized	29/1/2024, 10:58:37	PayPal
dHJhbnNhY3Rpb25fOXpyZWJzODM	Y3VzdG9tZXJfODk2MDI3NTkzNzM	Test Automation	00088501	185.83	USD	Sale	Authorized	29/1/2024, 10:55:6	PayPal
dHJhbnNhY3Rpb25fWR6MmR3anc	Y3VzdG9tZXJfMTI2NDM0Mjg4MTY	Santest Josetest	00002703	100.38	USD	Sale	Settling	29/1/2024, 10:48:15	PayPal
dHJhbnNhY3Rpb25fHpcujzYm0	Y3VzdG9tZXJfMTI2NDM0Mjg4MTY	Santest Josetest	00002801	200.24	USD	Sale	Settling	29/1/2024, 10:46:38	PayPal
dHJhbnNhY3Rpb25fa2NqYXdiZGU	Y3VzdG9tZXJfNDc3OTQwODUwNzE	not available	a0Gam000000B7hJEAS	1210.00	USD	Sale	Authorized	29/1/2024, 10:9:7	PayPal
dHJhbnNhY3Rpb25fNm4ybXc0YzE	Y3VzdG9tZXJfODI4MzE5OTA0ODE	not available	a0Gam000000B6pNEAS	46.00	USD	Sale	Authorized	29/1/2024, 10:5:56	CreditCard (Visa)
dHJhbnNhY3Rpb25fYjY1cTByamc	not available	not available	a0Gam000000B6pNEAS	46.00	USD	Sale	Processor Declined	29/1/2024, 10:5:1	PayPal
dHJhbnNhY3Rpb25fYTYajc4Mjg	Y3VzdG9tZXJfODczODE1MzEyNjk	not available	00002802	809.53	USD	Sale	Submitted For Settlement	29/1/2024, 9:58:7	CreditCard (Visa)
dHJhbnNhY3Rpb25faHB5Z3MxNtk	Y3VzdG9tZXJfMTI2NDM0Mjg4MTY	Santest Josetest	00002801	120.00	USD	Sale	Settled	29/1/2024, 9:55:24	PayPal
dHJhbnNhY3Rpb25famt3OGQ3bWM	Y3VzdG9tZXJfMTI2NDM0Mjg4MTY	Santest Josetest	00002801	320.24	USD	Sale	Settlement Pending	29/1/2024, 9:53:57	PayPal

Figure 7.2.22. Reports result example

We provide the possibility to export report`s result as csv file to the provided email address.

NOTE: To be able to export reports you should configure [CreateTransactionReport](#) job

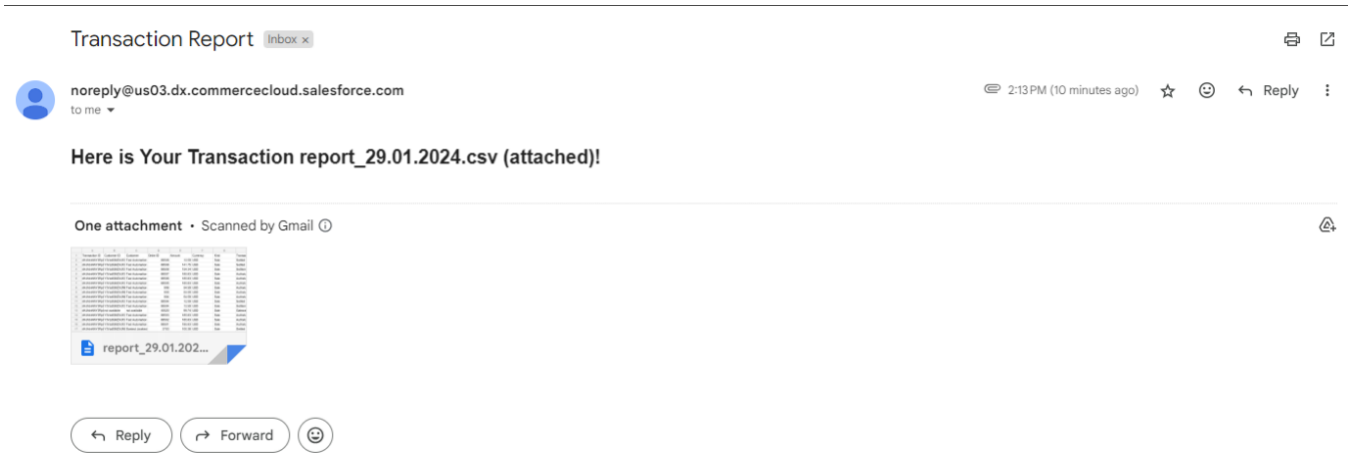


Figure 7.2.23. Reports result sent via email

7.3 Storefront Functionality

The Braintree integration introduces two new features to Salesforce Commerce Cloud Store Front Reference Architecture (SFRA) storefront: Braintree hosted fields for credit card processing, and storage and use of payment methods from the Braintree Vault. The Billing page displays the hosted fields during checkout. (See Figure 7.3.1)

The screenshot shows a 'Payment' form. It has a 'Billing Address' section with a dropdown menu showing 'Tania Lieberman 2348 Rardin Drive San Bruno CA 94066' and buttons for 'Update Address' and 'Add New'. Below this is a '*Phone Number' field with an information icon and the value '6505895223'. There are icons for 'CREDIT', 'PayPal', 'G Pay', and 'V'. The form then has fields for '* Name on Card', '* Card Number', '* CVV', and '* Expiration Date', each with an example below it. At the bottom, there is a blue button that says 'Next: Place Order'.

Figure 7.3.1. Billing Page with Braintree Hosted Fields for Guest Checkout

These fields are form fields hosted on Braintree, which are useful for PCI compliance. Commerce Cloud stores no sensitive credit card data. This information is handled only on Braintree. If the buyer has logged in and “Store Payment Method in Vault” in Site Preferences is set to **Vault always** or **Vault on Success**, the customer can save their credit card data (saved credit card became default payment method). (See Figure 7.3.2.) This card will be tokenized on Braintree, and Commerce Cloud will store a Payment Method token for future payment actions.

The screenshot shows a Braintree hosted form for guest checkout. At the top, there are two links: "Update Address" and "Add New". Below these is a "Phone Number" field with an information icon, containing the value "9876543210". A horizontal bar contains logos for "CREDIT", "PayPal", "G Pay", and "V". Below this is a "Select a Credit Card" dropdown menu with "New Card" selected. The form then has fields for "Name on Card", "Card Number", "CVV", and "Expiration Date", each with an example provided below the field. At the bottom, there is a checked checkbox labeled "Save this card" and a blue button labeled "Next: Place Order".

Figure 7.3.2. Billing Page with “Save this card” Selected

If a customer is logged in and their profile includes saved credit cards, these cards will be displayed in the Select a Credit Card drop-down list. The customer can then choose a card to pay for their transaction. (See Figure 7.3.3 and Figure 7.3.4.)

Update Address

Add New

*Phone Number i

6505895223

CREDIT

PayPal

Google Pay

Apple Pay

Visa

Select a Credit Card

Visa *****1111 01/23 jill doe

* Name on Card

jill doe

Example: Visa

* Card Number

*****1111

Example: 4111111111111111

* CVV

* Expiration Date

01/23

Example: MM/YY

Next: Place Order

Figure 7.3.3. Billing Page with Braintree Hosted Fields for Logged-in Customer Checkout

Select a Credit Card

Mastercard *****4444 01/24 SRC

New Card

Mastercard *****4444 01/24 SRC

Visa *****1111 01/23 jill doe

Example: Visa

* Card Number

*****4444

Example: 4111111111111111

* CVV

* Expiration Date

01/24

Example: MM/YY

☒ Save this card

Figure 7.3.4. Billing Page with Multiple Saved Cards

This integration extends My Account Payment Methods functionality to work with the Braintree Vault. A customer can add or delete credit cards in the Braintree Vault.

The screenshot shows a web interface for managing payment methods. It features three main sections: 'Credit Cards', 'PayPal accounts', and 'Venmo accounts'. The 'Credit Cards' section lists two saved cards: a Visa card (masked with asterisks and ending in 1111) with a 'Remove' link, and a MasterCard (masked with asterisks and ending in 0011) with 'Make default' and 'Remove' links. Below the list is an 'Add New' link. The 'PayPal accounts' and 'Venmo accounts' sections each have an 'Add New' link.

Figure 7.3.5. My Account / Payment Settings Page with Braintree Payment Methods List and Saved CreditCard Payment Method

The screenshot shows the 'Add a Credit Card' form. It includes input fields for 'Name on Card', 'Card Number', 'CVV', and 'Expiration Date', each with an example provided below it. A blue 'Save' button is at the bottom. Below the button is a link 'or use alternative methods' and a button with the Braintree logo and 'VISA' and 'MasterCard' logos.

Figure 7.3.6. Braintree Hosted Fields in Add a Credit Page

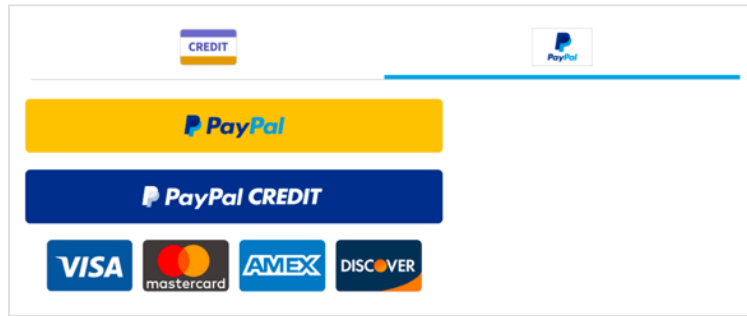


Figure 7.3.7. Braintree PayPal Functionality on the Checkout / Payment Methods Page

PayPal

Pay with PayPal

I.VinogradovVN@gmail.com

.....

☐ Stay logged in for faster purchases [?](#)

Log In

[Having trouble logging in?](#)

or

Create an Account

[Cancel and return to TEST MERCHANT](#)

[English](#) | [Français](#) | [Español](#) | [中文](#)

Figure 7.3.8. Braintree PayPal Payment Page

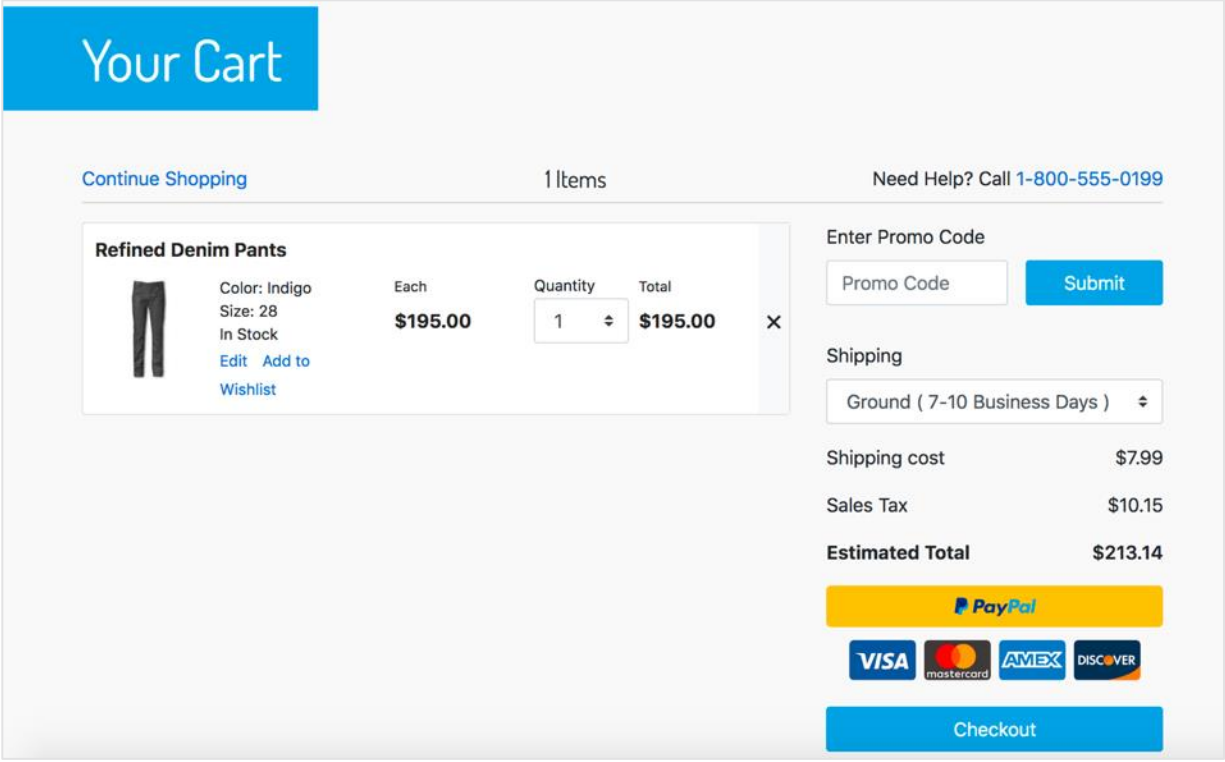


Figure 7.3.9. Braintree PayPal Functionality on the Cart Page

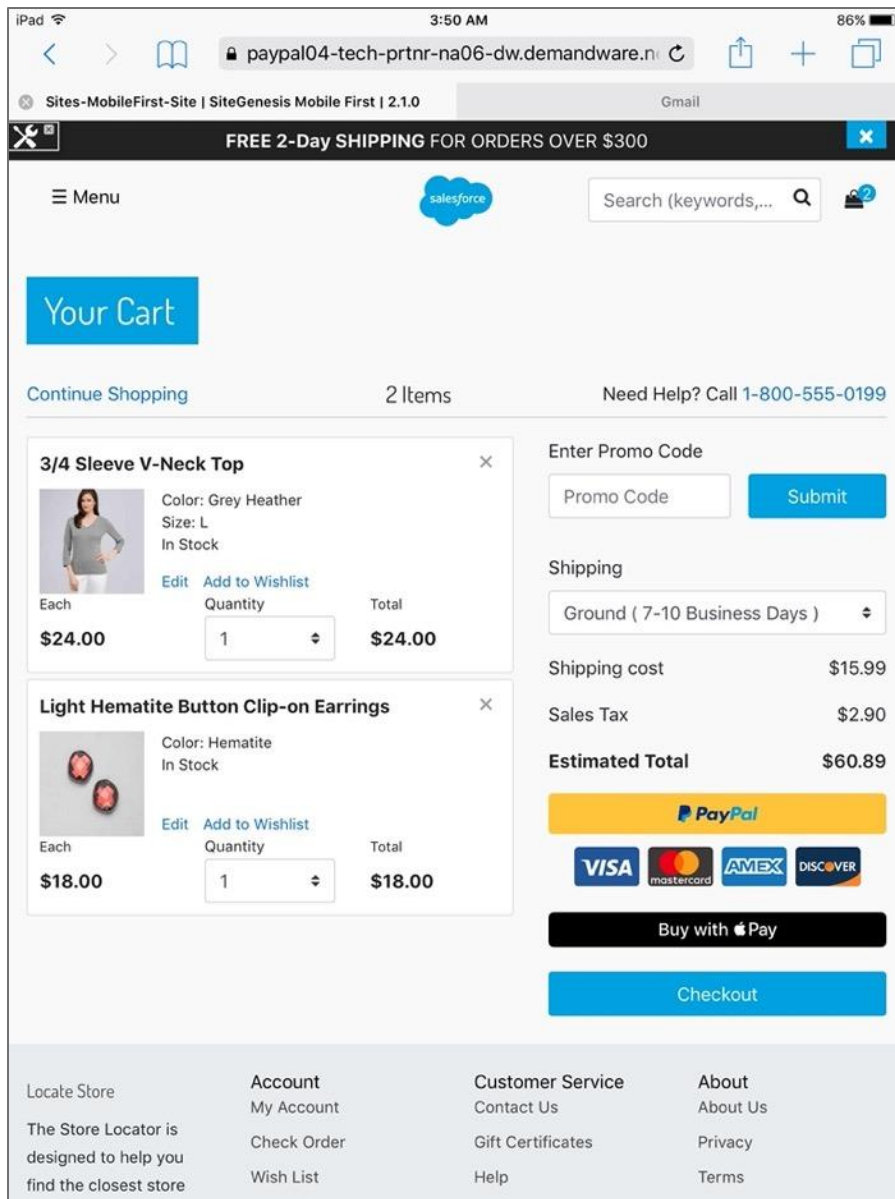


Figure 7.3.10. Braintree Apple Pay Functionality on the Cart Page

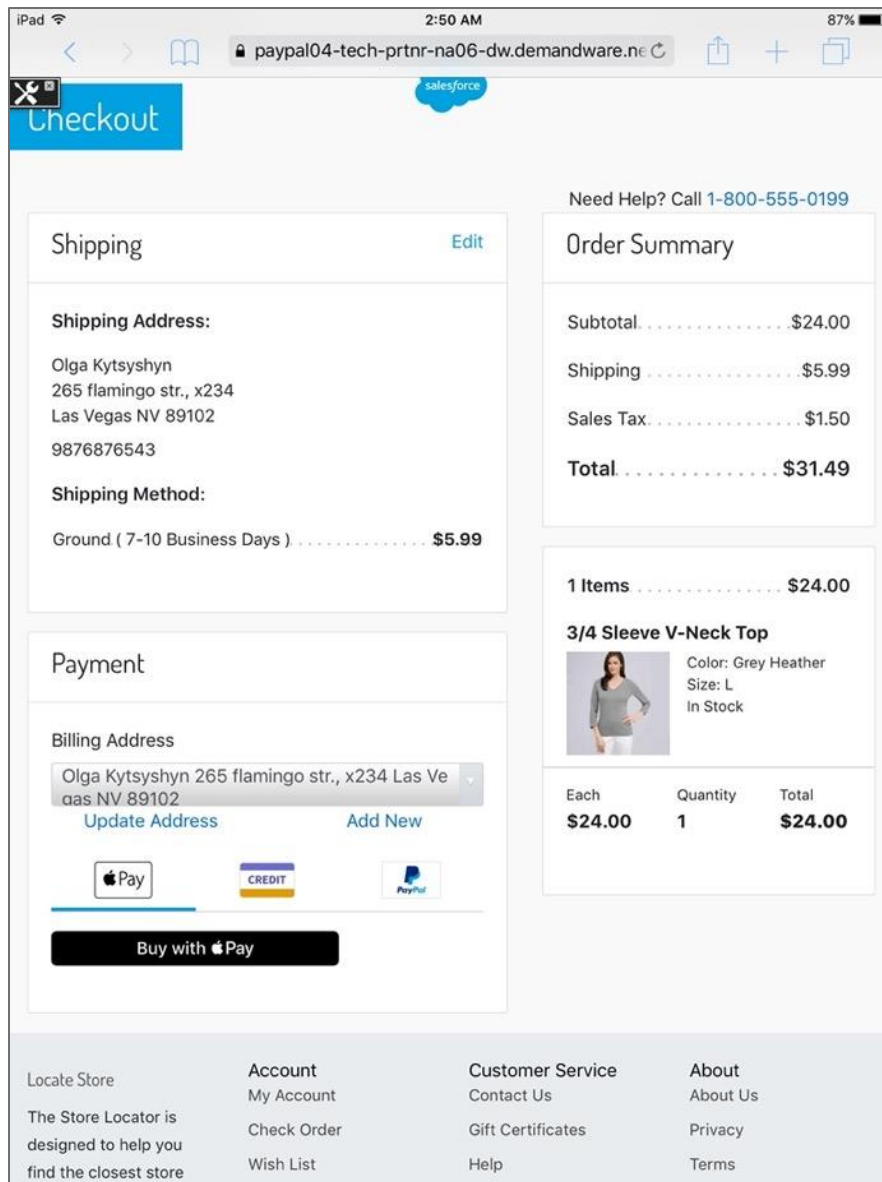


Figure 7.3.11. Braintree Apple Pay Functionality on the Checkout / Payment Methods Page

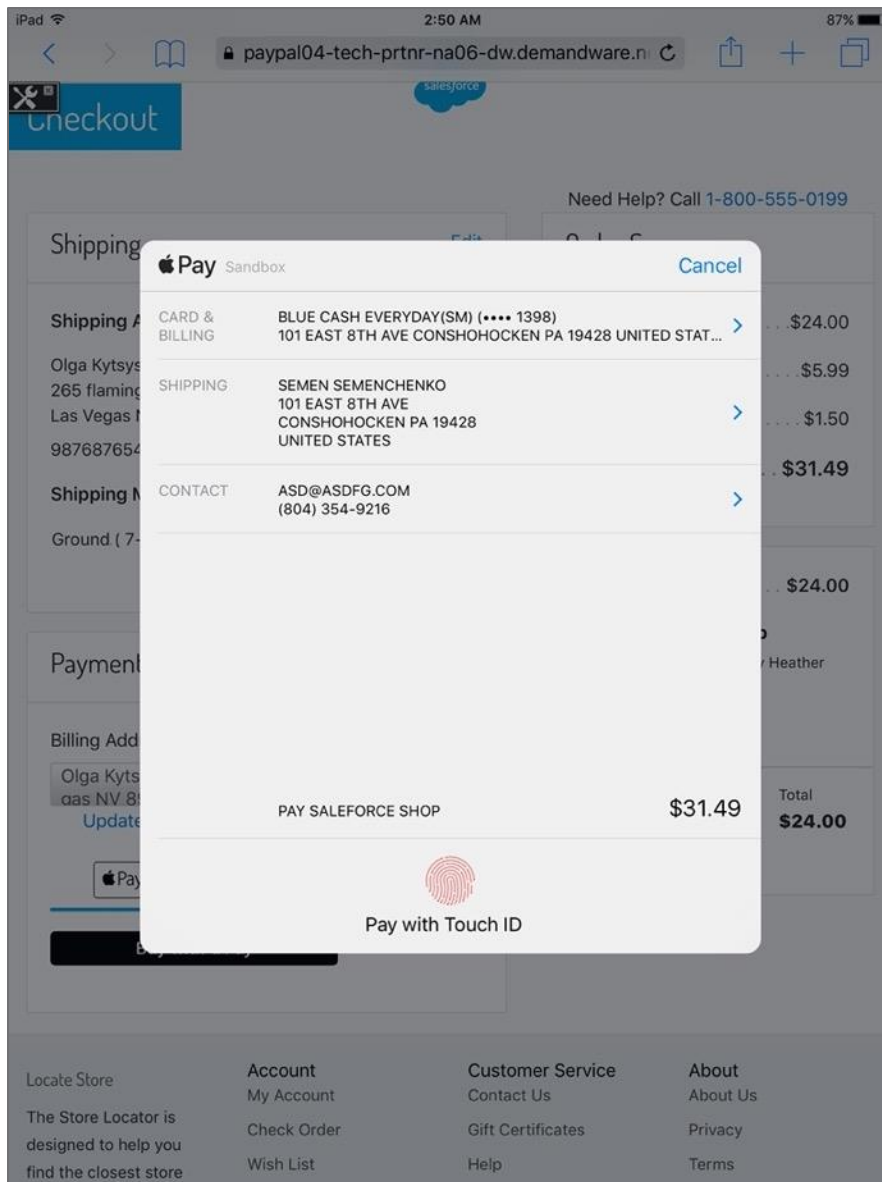


Figure 7.3.12. Apple Pay Popup

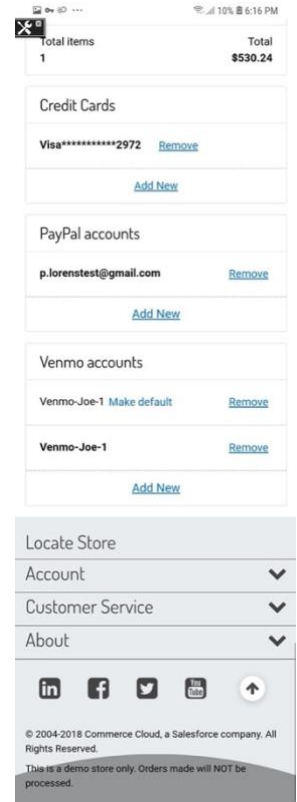
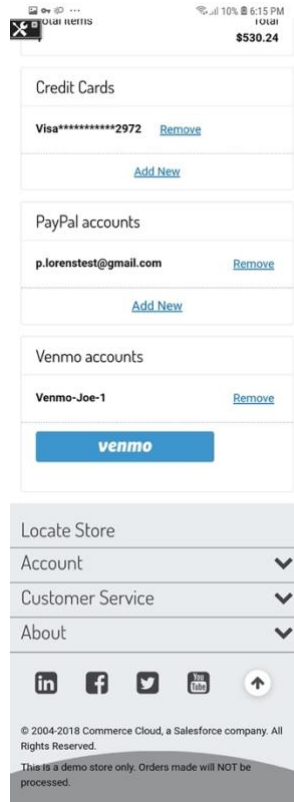
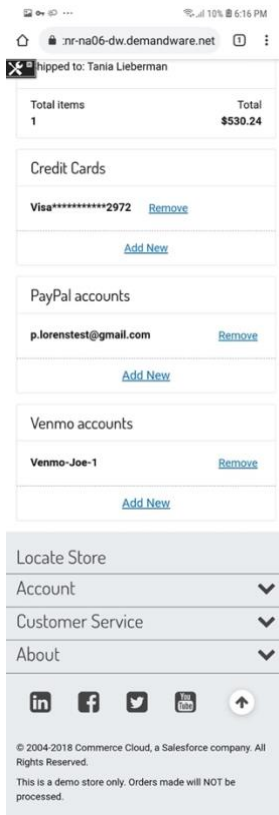


Figure 7.3.13. Venmo My Account section

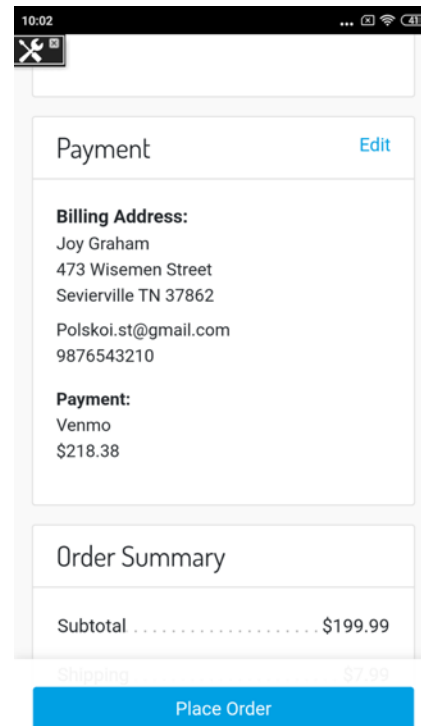
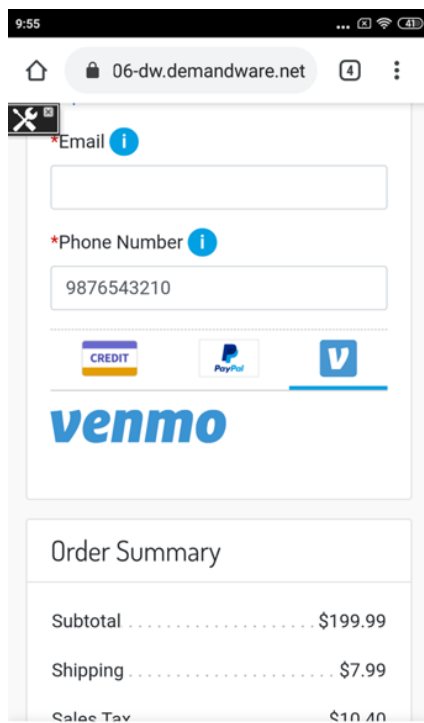


Figure 7.3.14. Venmo on checkout

[Continue Shopping](#)
1 Items
Need Help? Call 1-800-555-0199

Mitsubishi C8 Series 73" DLP® High Definition Television
 Extended Warranty: None
 Pre-Order
 Mon Jun 01 2009

Each
\$3,199.99

Quantity

Total
\$3,199.99

[Edit](#)

From \$148.83 per month with instalment offers.
[Click for details](#)

Enter Promo Code

Shipping

Shipping cost \$0.00
 Sales Tax \$0.00
Estimated Total \$3,199.99

Powered by

Figure 7.3.15. Google Pay button on Cart page

Payment

Billing Address

[Update Address](#)
[Add New](#)

*Email

*Phone Number

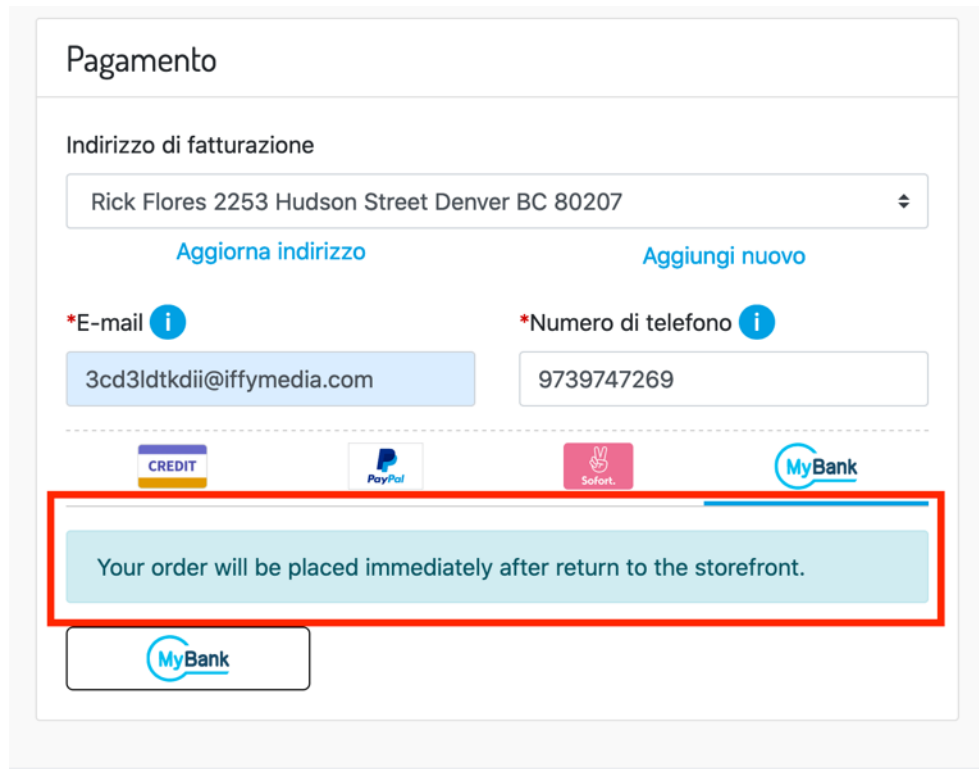
Figure 7.3.16. Google Pay Button on Billing page

7.3.1 Local payment methods

Business logic of local payment methods is different from other payment methods. Order will be placed immediately after customer confirm transaction in pop-up window (Figure 7.3.18.) or app on a phone.

To help customer there is small notification in the payment tab (Figure 7.3.17). This text comes from resource file (*braintree.checkout.lpm.tabmessage* property) and can be changed according to customers locale.

If payment failed or customer didn't confirm a transaction no failed order record will be created, and customer basket will be open so customer can choose another payment method or try again.



Pagamento

Indirizzo di fatturazione

Rick Flores 2253 Hudson Street Denver BC 80207

[Aggiorna indirizzo](#) [Aggiungi nuovo](#)

*E-mail ⓘ 3cd3ldtkdii@iffymedia.com

*Numero di telefono ⓘ 9739747269

CREDIT PayPal Sofort MyBank

Your order will be placed immediately after return to the storefront.

MyBank

Figure 7.3.17. Local payment method notification

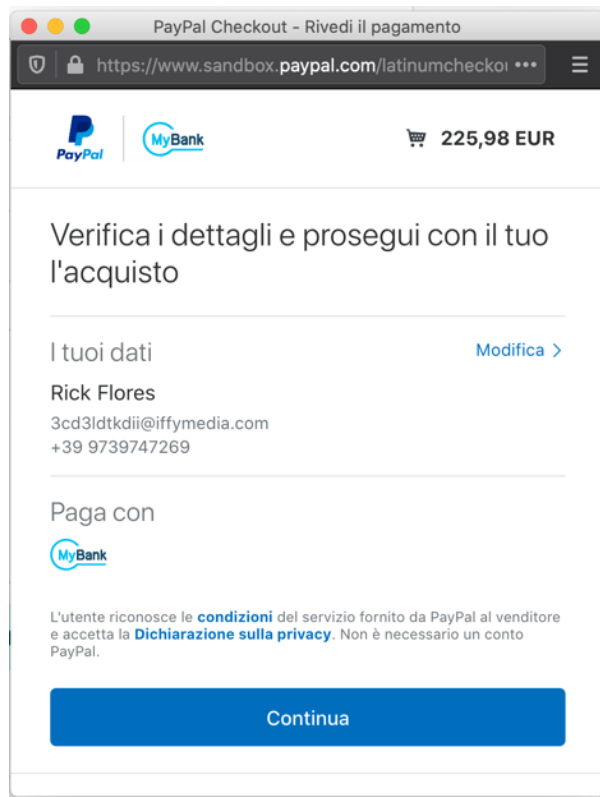


Figure 7.3.18. Local payment pop-up

7.3.2 Connect with PayPal (optional)

Ability for buyer to create a storefront account by clicking on just one button.

This functionality is available on the next pages: Account Login, Page before Checkout (for guest buyers).

Connect with PayPal provides customers with the option to access your website or app using their PayPal credentials or establish a connection between their PayPal account and your platform, facilitating the exchange of basic information. This solution utilizes only the primary email address obtained from PayPal and grants login access only for validated email address.

More about this feature you may read on [this](#) page.

Enhanced functionality:

1. Additional security layer - user who is logged in via PayPal for the 1st time and has a pre-existing SF user account with the same email (as the primary email in my PayPal account), will be asked to put in the credentials for the pre-existing SF user account before the account linking with PayPal, so it is an additional layer of security.
2. Email notifications:
 - In case user logs in via Connect with PayPal for the 1st time he will also receive an email notification for login via a Single Authentication (Commerce Cloud standard

login).

- Logged-in user who is linked via PayPal to his pre-existing SF user account, will be notified via email about account linking;
- Logged-in user who is linked via PayPal to his pre-existing SF user account, will be notified via email about account unlinking;

3. Automatic payment adding - adds account and address from PayPal to the user account.

To use this feature, you have to go through [these](#) steps. During configuration on PayPal side, select all fields to successfully create an account on storefront:

Select scope attributes for OpenID connect (OAuth2) protocol. You are requesting your customers to share this data with you.

Personal profile

- ☒ Full name
- ☒ Email

Address

- ☒ Street address
- ☒ City
- ☒ State
- ☒ Country
- ☒ Postal code

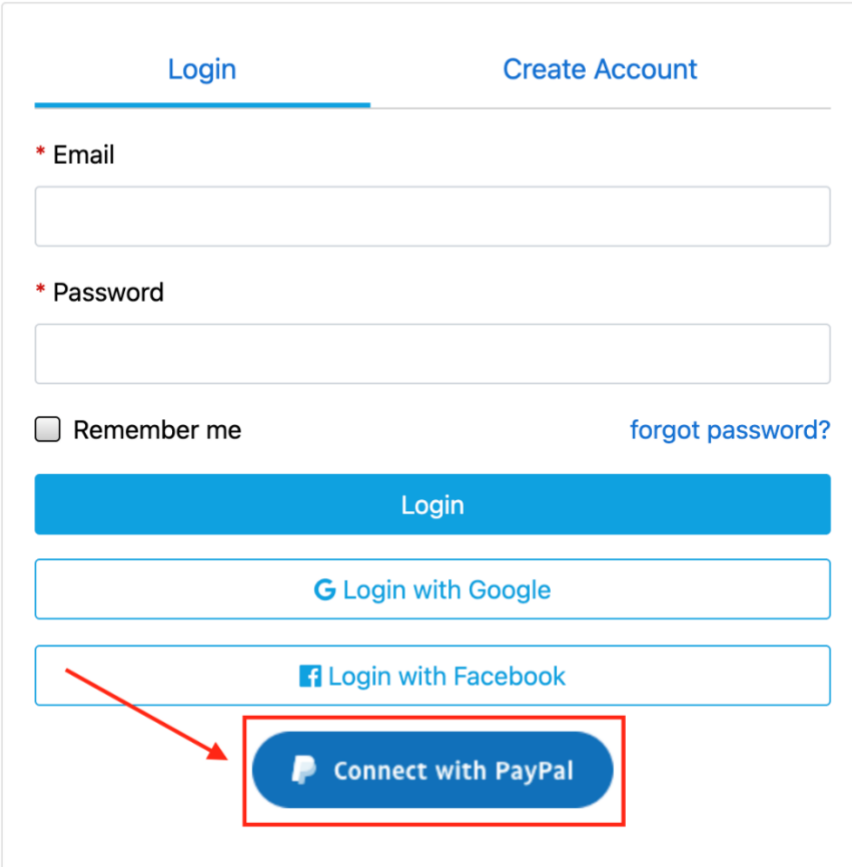
Account information

- ☒ Account verification status
- ☒ PayPal account ID (payer ID)

Figure 7.3.19. Connect with PayPal configurations

After user clicked on the “Connect with PayPal” button and went through auth PayPal form successfully an account on storefront will be created with data from PayPal buyer account.

[Home](#)



The screenshot shows a user interface for logging in or creating an account. At the top, there are two tabs: "Login" (which is selected and underlined) and "Create Account". Below the tabs, there are two required fields: "* Email" and "* Password", each with a corresponding text input box. Under the password field, there is a checkbox labeled "Remember me" and a link labeled "forgot password?". Below these fields are four buttons: a blue "Login" button, a white button with a Google icon and "Login with Google" text, a white button with a Facebook icon and "Login with Facebook" text, and a blue button with a PayPal icon and "Connect with PayPal" text. A red arrow points from the "Login with Facebook" button area to the "Connect with PayPal" button, which is also enclosed in a red rectangular box.

Figure 7.3.20. Connect with PayPal button

When going to production don't forget to change Site Pref with ID:

PP_Connect_With_Paypal_Button_Url from

<https://www.sandbox.paypal.com/connect?> To

<https://www.paypal.com/connect?> (Check site pref description).

Also, you should create and configure an agent user with specified permissions to use the full “Connect with PayPal” functionality:

- go to “Administration > Organization > Roles & Permissions” and choose “New”
- please fill in all the fields according to the example in the screenshot below (Figure 7.3.21) and click “Apply”

Administration > Organization > Roles > New Access Role

General Users Business Manager Modules Functional Permissions WebDAV Permissions Locale Permissions Price Adjustment Limits Customer Service Center Permissions

New Role

This page allows you to create a new access role. Please type in an ID that uniquely identifies the access role. An error is displayed if no ID is provided or if an access role with such an ID already exists. Click **Apply** to create the access role. Click **Cancel** to abort.

ID: AgentRole

Description: This role provides a possibility for the BM users to log in on behalf of customers.

Apply Cancel

<< Back to List

Figure 7.3.21. New role creation

- choose tab “Functional Permissions” (Administration > Organization > Roles > AgentRole - Functional Permissions). Select necessary site/sites to use your changes (Figure 7.3.22. Select Context):

Select Context

Select a context to view and edit permissions. **Organization** and **Sites** can't be selected at the same time.

☐ Organization

☒ Sites

☒ RefArch

☒ RefArchGlobal

Cancel Apply

Figure 7.3.22. Select Context

- after “Apply” choose permissions as on screenshot below (Figure 7.3.23):

Administration > Organization > Roles > AgentRole - Functional Permissions

General Users Business Manager Modules Functional Permissions WebDAV Permissions Locale Permissions Price Adjustment Limits Customer Service Center Permissions

AgentRole - Functional Permissions

This list shows all functional permissions available in the system. Click **Select Context** to specify for which context you'd like to modify permissions. Available context options are the organization, one site, or multiple sites. Select the checkboxes and use the **Update** button at the bottom of the page to grant certain functional permissions. Deselect the checkboxes and use the **Update** button to revoke specific functional permissions.

Selected Context: RefArch, RefArchGlobal
Select Context

Permission	Description	
Login_On_Behalf	Allows administrators to log into the Storefront on behalf of a customer.	<input checked="" type="checkbox"/>
Replication_Run_For_Site	Allows to manage and start data replication processes for site-specific replication groups (i.e. search indexes).	<input type="checkbox"/>
Login_Agent	Allows to log in as an agent user to the Storefront. Restrict the access to only those Business Manager users that have the permission 'Login_Agent'.	<input checked="" type="checkbox"/>
Manage_Site_Catalog	Allows to manage the catalog and its assets in the selected site.	<input type="checkbox"/>


Figure 7.3.23. Select Permissions


- after that, you need to select an existing or create a new user and give him the “AgentRole” created in the previous steps (example Figure 7.3.24):


Administration > Organization > Users > John_Doe@gmail.com - Roles

General **Roles** Permissions Access Keys

John_Doe@gmail.com - Roles

The list shows all roles to which this user belongs. Click **Assign** to add a role. Use the checkboxes and the **Unassign** button to unassign the user from the selected roles. Roles marked with  have permission to view or manage users, access roles or access keys. They are therefore security-sensitive roles. Please be careful when changing these roles so as not to unintentionally give access privileges to certain users.

 Assignment to the 'Administrator' role for this user must be managed in Account Manager. Any changes there will be effective upon next login into Business Manager.

Select All	ID	Description
<input type="checkbox"/>	 Administrator	The administrator has the rights to perform tasks related to the overall administration of the merchant organization and its users and roles. This access role is not site-specific and will grant the user access to the entire organization.

Assign **Unassign**


[<< Back to List](#)


Figure 7.3.24. User Role assigning

- click “Assign” on your user, choose “AgentRole” and click “Assign” one more time (Figure 7.3.25):

Administration > Organization > Users > Anatoli_Silusarenko@epam.com - Roles > Assign Roles

Select Roles

Select the roles you want to assign to the user. Roles marked with  have permission to view or manage users, access roles or access keys. They are therefore security-sensitive roles. Please be careful when changing these roles so as not to unintentionally give access privileges to certain users.

 Assignment to the 'Administrator' role for this user must be managed in Account Manager. Any changes there will be effective upon next login into Business Manager.

Select All	ID	Description
<input checked="" type="checkbox"/>	AgentRole	This role provides a possibility for the BM users to log in on behalf of customers.

Assign **Cancel**

Figure 7.3.25. User Role selecting

- after, you should fill necessary Preference Configuration in Merchant Tools > Braintree Plugin > Preference Configuration > PayPal tab (Figure 7.3.26) using your User Login and Password

PLEASE NOTE: In case an "Agent User Login and OCAPI" access key was created, you should fill the "PP_CWPP_Agent_Password" preference using this key instead of a password, as it takes precedence over the base password approach.

Connect with PayPal agent login

(BRAINTREE_PAYPAL_CWPP_Agent_Login)
(String)

Connect with PayPal functionality requires agent credentials to perform "Login On Behalf" action.

Connect with PayPal agent password

(BRAINTREE_PAYPAL_CWPP_Agent_Password)
(Password)

Connect with PayPal functionality requires agent credentials to perform "Login On Behalf" action.

Figure 7.3.26. Preference Configuration PayPal filling

Recommendations before moving to production:

1. Go to [PayPal Sandbox configuration](#):

- enter your credentials for access PayPal Dev Console;
 - go to the My Apps&Credentials;
 - select your application;
 - go to SANDBOX APP SETTINGS;
 - click Advanced Option (below Log in with PayPal checkbox);
 - unselect the '*Enable customers who have not yet confirmed their email with PayPal to log in to your app*' checkbox.
2. Ensure that you have configured email confirmation for user account registration and MFA.

7.3.3 Credit Card re-verification

Credit cards with AVS/CVV were previously being vaulted and were not screened against basic fraud tools will be prompted during checkout for re-verification.

To enable go to: **Merchant Tools > Braintree Plugin > Preference Configuration > Credit** tab and set BRAINTREE_CREDIT_Reverify_Enabled site preference to **YES**, by default the site preference is set to **NO**.

Once a user chosen a saved credit card from the Credit card list on the checkout page the following notification message will appear inside CVV field: **Please enter a CVV to verify this card and place the order.**

Select a Credit Card

Visa *****1881 12/24 visa

* Name on Card

visa

Example: Visa

* Card Number

*****1881

Example: 4111111111111111

* CVV

Please enter a CVV to verify this card and place the order

* Expiration Date

12/24

Example: MM/YY

Next: Place Order

Figure 7.3.27. Re-verification flow

In case of success the Order review page will appear:

Payment

Edit

Billing Address:

Joy Gray

473 Wiseman Street

Sevierville TN 37862

test1001@g.com

202550162

Payment:

Credit Card

*****1881

Visa

\$325.48

Place Order

Figure 7.3.28. The buyer has successfully verified a Credit Card and can place an order

In case of unsuccessfully Credit card verification the error message will appear in the top of the page.

The Credit Card verification failed with status GATEWAY_REJECTED and cvv Response NOT_VERIFIED

Customer

Customer Information:

test1001@g.com

Shipping

Edit

Shipping Address:

Joy Gray

473 Wiseman Street

Sevierville TN 37862

202550162

Shipping Method:

Ground (7-10 Business Days)

\$9.99

Figure 7.3.29. Example of unsuccessfully Credit Card verification

7.3.4 Credit Card 3D Secure

BRAINTREE_CC_3DSecure_Flow values:

- Disabled - 3D Secure will not be triggered (3DS is disabled). Note: If the 3DS is required your buyers may face failed card verifications
- Auto - automatically defines whether the 3D Secure flow is required by bank or not. If it's required, the 3DS flow will be triggered (Recommended value)
- Always - 3D Secure flow will be always forced if possible.
- Always+ChallengeRequested - 3D Secure flow will be always forced if possible. Parameter 'challengeRequested' will be passed in card verification call.

'Auto' by default. Applicable to the following payment methods - saved and non-saved credit card. The following statuses can be received in the Authentication Insight object response:

- unregulated - Do not trigger the 3D Secure flow
- unavailable, psd2 - Trigger the 3D Secure flow

To enable go to: **Merchant Tools > Braintree Plugin > Preference Configuration > Credit** tab and set BRAINTREE_CC_3DSecure_Flow (auto).

BRAINTREE_CC_3DSecure_Account_Page - Disabled by default. This setting specifies whether to perform credit card verification when added on the Account page.

BRAINTREE_CC_3DSecure_SCA_exemption - Disabled by default. This setting enables request a specific SCA exemption (by risk or low amount) when performing a 3D Secure authentication, if it's granted, then authentication will not be required (however, in this case, the liability remains with the merchant and is not shifted to the issuer).

Note: Exemptions are granted completely at the discretion of the issuer and are never guaranteed. We recommend using it only when you get acquainted with SCA regulations and exemptions. SCA exemptions will not be requested if the 3D Secure flow or 3D Secure CC verification on the My Account page site preference value is set to 'Always+ChallengeRequested'. Applicable only for credit cards.

7.3.5 Credit Card Expire Notification

This functionality will notify the customer about the expiration of a credit card which is already expiring or has already expired. By default, this functionality is disabled. Other options are also available:

- **Notify when expired only** - will notify and highlight only if CC is expired
- **Notify 1 month before expiration** - will notify and highlight CC's which are going to expire in 1 month
- **Notify 2 months before expiration** - will notify and highlight CC's which are going to expire in 2 months
- **Notify 3 months before expiration** - will notify and highlight CC's which are going to expire in 3 months

To enable go to: **Merchant Tools > Braintree Plugin > Preference Configuration > Credit** tab and set BRAINTREE_CREDIT_Expire_Notification

An example of notifications can be seen below (Account, Checkout page):

Please note that you have a credit card in your wallet that is expired. You will not be able to place the order with this credit card.

Home Please note that you have a credit card in your wallet that is going to expire soon. Please check it.

Profile

First Name

John

Last Name

Doe

Email

test@gmail.com

Phone

1234567890

Password

Password

Credit Cards

Expires in 2 months

Visa*****0061

Make default

Remove

expiration date: 6/23

Update Billing Address

Expires in 3 months

Visa*****1119

Make default

Remove

expiration date: 7/23

Update Billing Address

Expires in 1 month

Visa*****1111

Make default

Remove

expiration date: 5/23

Update Billing Address

Expired

Visa*****1111

Remove

expiration date: 4/23

Update Billing Address

Add New

Figure 7.3.30. Credit Card Expire Notification (Account page)

Select a Credit Card

Visa *****1111 05/23 Visa3 (Expires in 1 month)

▼

New Card

Visa *****0061 06/23 Visa Test2 (Expires in 2 months)

Visa *****1119 07/23 Visa23 (Expires in 3 months)

Visa *****1111 05/23 Visa3 (Expires in 1 month)

Visa *****1111 04/23 Visa (Expired)

Figure 7.3.31. Credit Card Expire Notification (Checkout page)

7.3.6 Limit of saved accounts/credit cards

Available only for Credit Card, SRC, Venmo and PayPal. To enable go to: **Merchant Tools > Braintree Plugin > Preference Configuration > Chose appropriate tab** and set the value.

NOTE: If you decrease the value, already saved accounts/credit cards will not be deleted.

An example of notifications can be seen below (Account page):

Braintree
A PayPal Service

Copyright ©2023 Braintree, a service of PayPal Inc. All rights reserved.

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Credit Cards

Visa*****1111

Make default

Remove

expiration date: 12/25

Update Billing Address

Visa***1111**

Update Billing Address

Remove

expiration date: 12/25

You reached the maximum number of saved Credit cards. In order to save a new payment method please remove the already saved one.

You reached the maximum number of saved SRC accounts. In order to save a new payment method please remove the already saved one.

PayPal accounts

p.lorenstest@gmail.com

Remove

You reached the maximum number of saved PayPal accounts. In order to save a new payment method please remove the already saved one.

Venmo accounts

@Epam-Testing

Remove

You reached the maximum number of saved Venmo accounts. In order to save a new payment method please remove the already saved one.

Figure 7.3.32 Notifications - limit of saved accounts/credit cards

7.3.7 Update a Credit card billing address (Account page)

Logged-in buyer able to update the already saved Billing address which is linked to the saved Credit Card from 'My Account' page. The new Billing address will overwrite the existing one.

Credit Cards	
Mastercard*****0011	Make default Remove
expiration date: 12/24	Update Billing Address
Update by this button	
Visa*****7777	Make default Remove
expiration date: 12/24	Update Billing Address
Visa*****1881	Make default Remove
expiration date: 12/24	Update Billing Address
Visa*****0004	Make default Remove
expiration date: 12/24	Update Billing Address
Visa*****1111	Update Billing Address Remove
expiration date: 12/24	
Add New	

Figure 7.3.33. Update billing address on the account page

Update Billing Address	
* First Name	* Last Name
<input type="text" value="Joy"/>	<input type="text" value="Gray"/>
* Address 1	
<input type="text" value="473 Wiseman Street"/>	
Address 2	
<input type="text"/>	
* Country	* State
<input type="text" value="United States"/>	<input type="text" value="Tennessee"/>
* City	* ZIP Code
<input type="text" value="Sevierville"/>	<input type="text" value="37862"/>
* Phone Number	
<input type="text" value="2025550162"/>	
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

Figure 7.3.34. A billing address form to update

In case of success the following flash message will appear:

The screenshot shows a user account page with a green flash message at the top: "The billing address has been successfully updated" with a close button (X). Below the message, the page is divided into two main sections: "Profile" and "Order History".

Profile Section:

- First Name:** Dima
- Last Name:** Tuz
- Email:** test1001@g.com
- Phone:** 9234567890

Order History Section:

- Most Recent Order:** Includes a placeholder image of a person in a suit.
- Order Details:**
 - Order Number: 00034119
 - Date Ordered: 1/16/23
 - Order Status: NEW
 - Shipped to: Joy Gray
- Total Items:** 1
- Total:** \$325.48

Additional Sections:

- Password:** A field with a masked password (*****).
- Credit Cards:** Shows a Mastercard with the last four digits 0011. It includes links for "Make default", "Remove", and "Update Billing Address". The expiration date is 12/24.

Figure 7.3.35. 'The billing address has been successfully updated' flash message

7.3.8 Credit Card billing address on the checkout page

If Credit card has an appropriate saved billing address, this billing address will appear on the checkout page with its Credit Card and buyer will not be able to change it on the Checkout page, only from 'My Account page'.

The storefront view will be the next:

The screenshot shows the "Payment" section of a checkout page. It features a "Billing Address" dropdown menu displaying "Joy Gray 473 Wiseman Street Sevierville, TN 37862". Below this, there are logos for various payment methods: Google Pay, Apple Pay, Visa, American Express, and PayPal. A blue informational box states: "The billing address will be retrieved from the saved Credit Card. In order to update it, please use Update billing Address button on the My Account page".

Select a Credit Card: A dropdown menu shows "Visa *****1111 12/24 visa".

*** Name on Card:** A text field contains "visa". Below it, an example is provided: "Example: Visa".

*** Card Number:** A text field contains "*****1111".

Figure 7.3.36. The saved Credit Card billing address on the checkout page

In case if Credit card does not have a saved billing address, billing address section will be enabled, and the chosen billing address will be saved to the Credit Card.

Billing Address

Joy Gray 473 Wiseman Street Sevierville TN 37862

Update Address Add New

*Phone Number ⓘ

2025550162

Google Pay Apple Pay Visa CREDIT PayPal

Select a Credit Card

Mastercard ****4444 12/24 visa

*Name on Card

visa

Example: Visa

*Card Number

****4444

Figure 7.3.37. Case when Credit card does not have saved billing address

7.3.9 PayPal Pay Later messaging

Pay Later banner can be present on Category page, PDP, Cart page.

Visibility of each message can be changed in Custom Preferences at the Business Manager (PayPal Pay Later banner location).

Offer amount for cart and category page calculated based on current cart total. If cart total is lower than 30 transaction is under Pay Later limits and banner will notify customer about it.

For PDP page product price will be used as value for pay later options. For product sets message appears for each option and for set total. After attribute selection new price will be passed as a value to banner options.

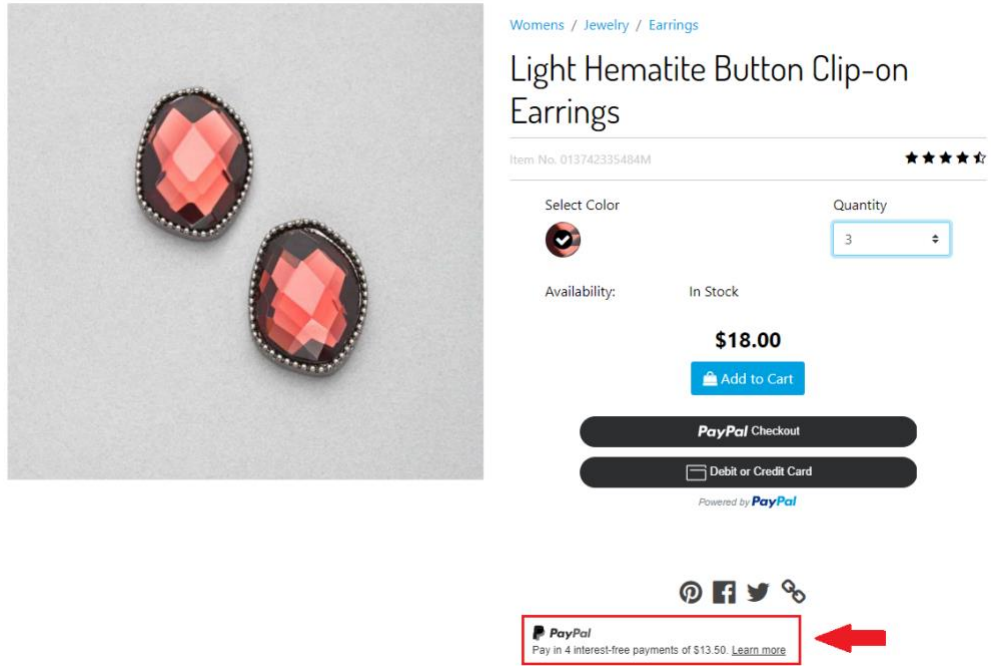


Figure 7.3.38. PayPal Pay Later banner on PDP

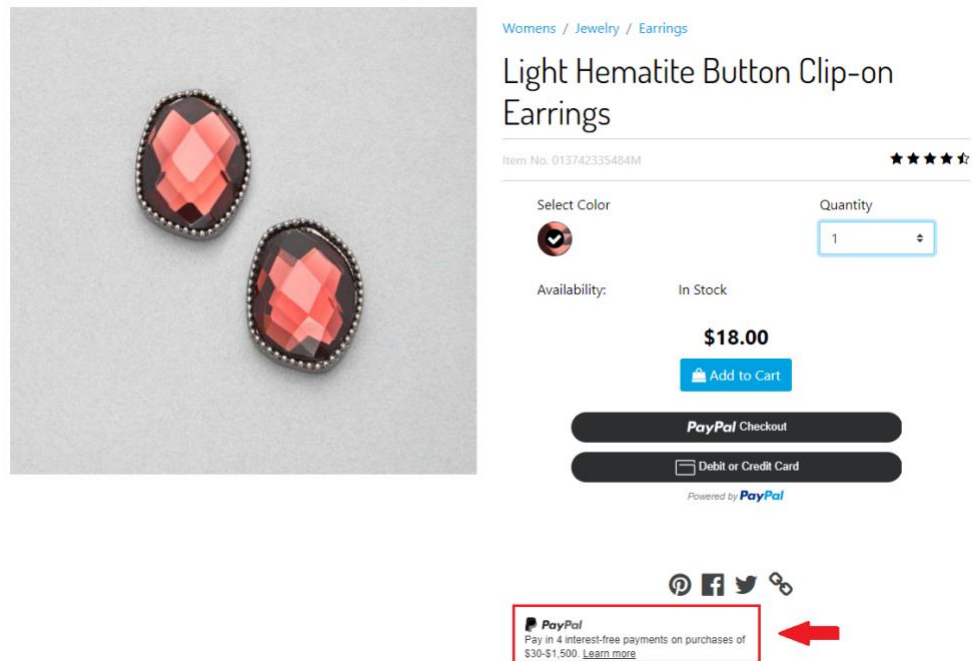


Figure 7.3.39. PayPal Pay Later banner on PDP when price is lower than 30

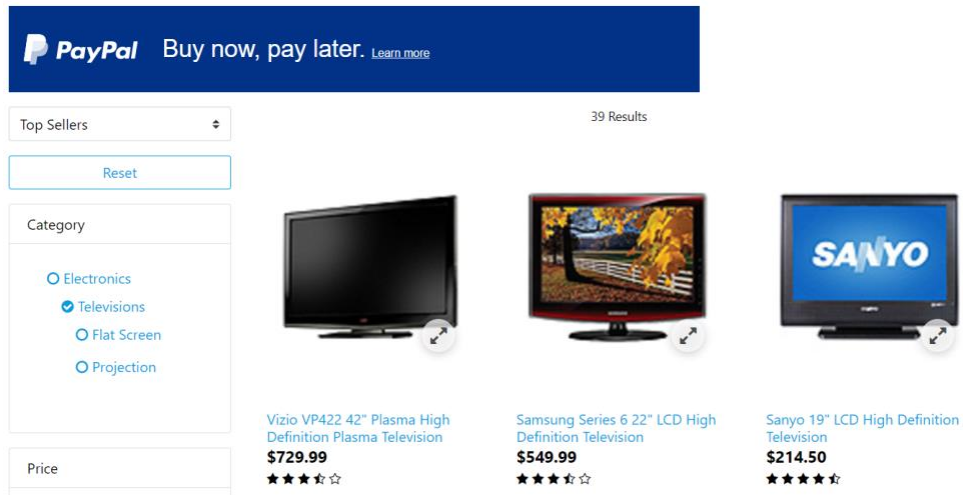


Figure 7.3.40. PayPal Pay Later banner on Category page with empty basket

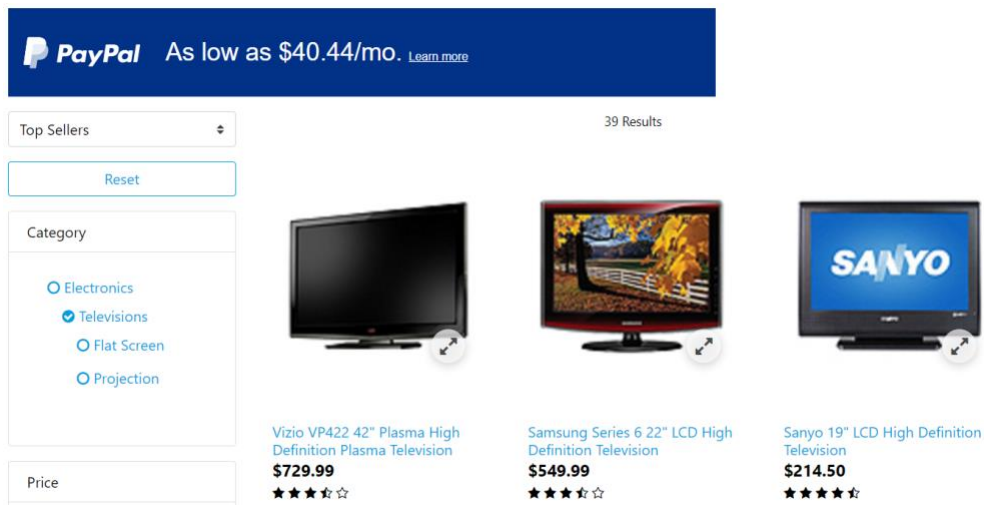


Figure 7.3.41. PayPal Pay Later banner on Category page with products in basket

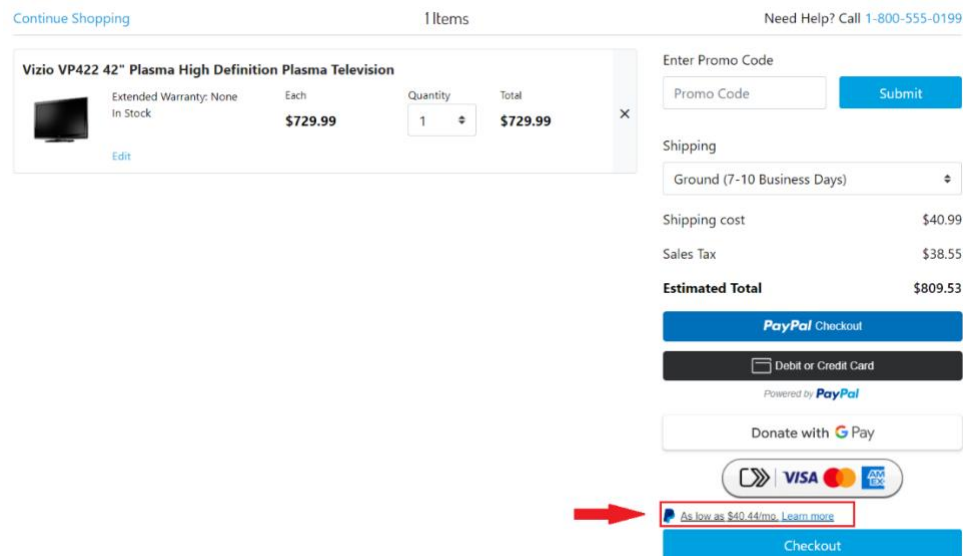


Figure 7.3.42. PayPal Pay Later banner on Cart page

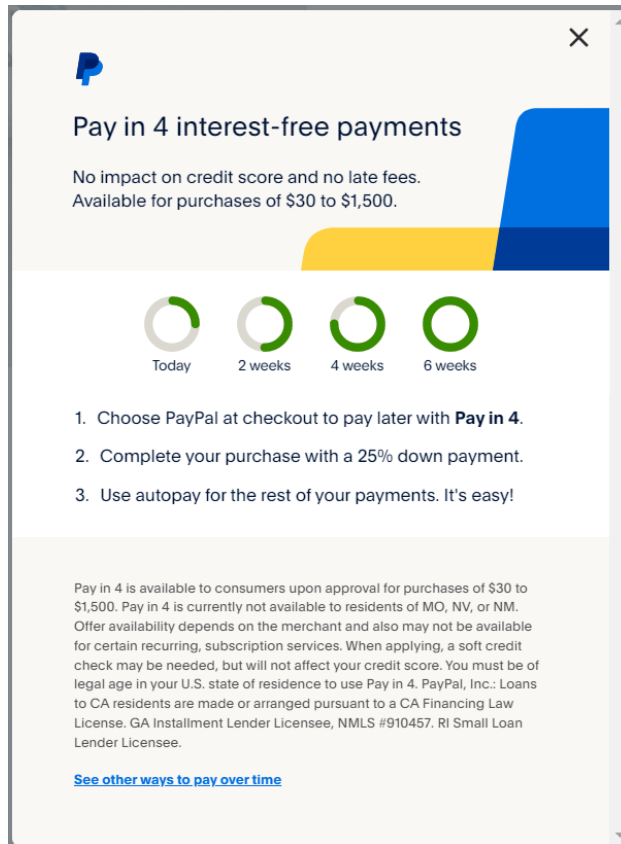


Figure 7.3.43. PayPal Pay Later banner pop-up when price is lower than 30

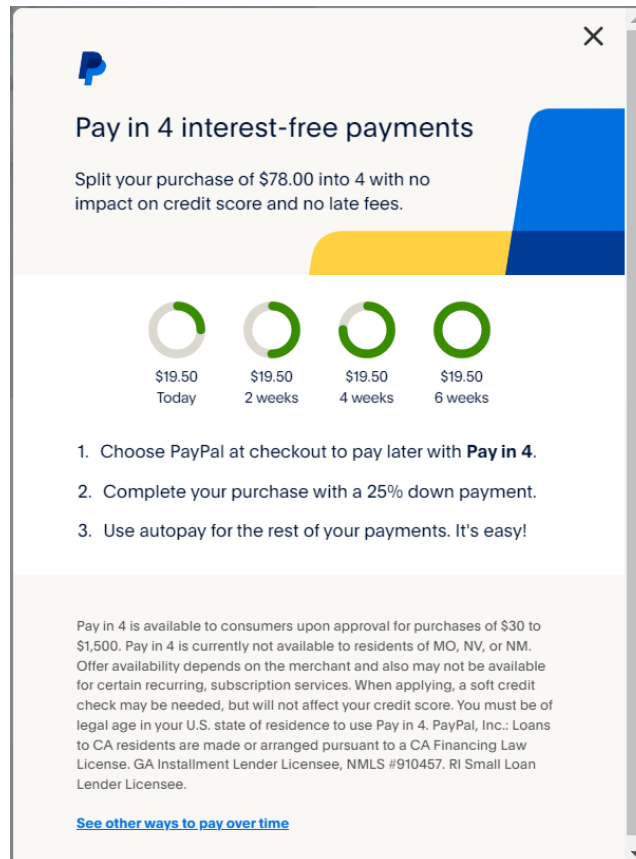


Figure 7.3.44. PayPal Pay Later banner pop-up when price is 78

7.3.10 Vault flow for PayPal

The Vault flows for PayPal enable merchants to tailor their customer experiences based on chosen payment methods. When the 'Store PayPal account in Vault' site preference is enabled, it allows for saving customer's PayPal account details to their user wallet and the Braintree vault for future transactions, providing a seamless experience to returning customers, eliminating the need for them to provide PayPal account details for each transaction.

If the 'Save my PayPal account to the wallet' checkbox on Checkout is selected (as shown in Figure 7.3.45), the 'PayPal Checkout with Vault' flow is utilized, storing the payment method to both the customer's user wallet and Braintree vault. If the option to save account details isn't selected by users or in the case of guest users, the 'PayPal Checkout' flow is used.

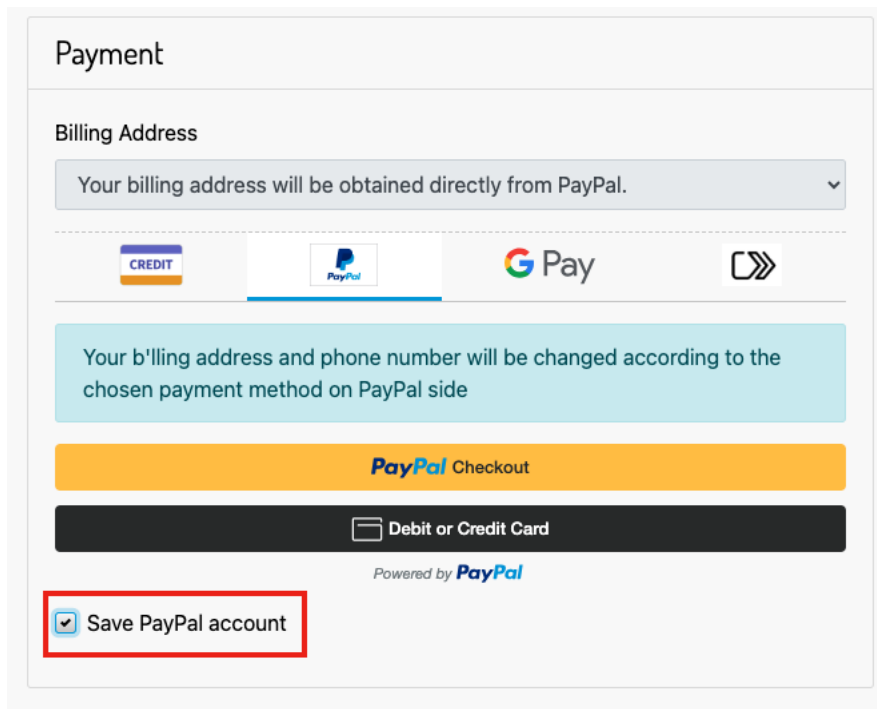
The image shows a 'Payment' section of a checkout form. At the top, there's a 'Billing Address' dropdown menu with the text 'Your billing address will be obtained directly from PayPal.' Below this is a row of four payment method icons: CREDIT, PayPal, G Pay, and Apple Pay. The PayPal icon is highlighted with a blue underline. Below the icons is a light blue informational box stating: 'Your billing address and phone number will be changed according to the chosen payment method on PayPal side'. Underneath this box are two large buttons: an orange 'PayPal Checkout' button and a black 'Debit or Credit Card' button. Below the buttons, it says 'Powered by PayPal'. At the bottom of the form, there is a checkbox labeled 'Save PayPal account' which is checked and highlighted with a red rectangular border.

Figure 7.3.45 Save my PayPal account to the wallet.

Important: disabling the 'Store PayPal account in Vault' site preference limits the capacity to save the PayPal account to both the buyer's wallet and Braintree vault, engaging only the 'PayPal Checkout' flow in such instances. Also, the Automatic Payment Method feature will not propose to add a PayPal account to the user wallet under such circumstances.

Recommendation: Before transitioning to the new workflow for the PayPal Vault starting from plugin version 24.1.0, it is necessary to execute the BraintreeSynchronizePaymentMethodTokens job. This job ensures that all payment method tokens are synchronized with the Braintree Vault, facilitating

smoother transactions and providing a seamless customer experience when using the PayPal payment option.

8 Level 2 and 3 processing

8.1 Overview

Starting from 19.1.2 version Braintree cartridge supports Level 2 and Level 3 data for the following payment methods: Apple Pay, Credit Cards, Google Pay, Local Payment Methods, SRC and Venmo. For PayPal only Level 2 data is passed.

8.2 Configuration

In Business Manager navigate to Merchant Tools -> Braintree Plugin -> Preference Configuration -> General tab and set Level 2 and 3 Processing preferences to Yes.

Some fields required configuration on code-level, and some are supported out of the box.

L2 Fields

Tax amount: Passed

Purchase Order Number: **Not passed**

L3 Fields

Shipping Amount: Passed

Discount Amount: Passed

Ships From Postal Code: **Not passed**

Shipping.

- Postal Code: Passed
- Country Alpha 3: Passed (see notes below)

Line Items

- Name: Passed
- Kind: Passed
- Quantity: Passed
- Unit Amount: Passed
- Unit of Measure: **Not passed**
- Total Amount: Passed
- Tax Amount: Passed

- Discount Amount: Passed
- Product Code: Passed
- Commodity Code: **Not passed**

Unit of measure and commodity code can be configured on product level in Business Manager. In product configuration page in General tab find Braintree Level3 line items group and add values to inputs.

Ships from postal code and purchase number must be added on code level at braintreeApi.js at line 266 and line 277.

For Apple Pay and PayPal when checkout comes not from billing page - Country Alpha 3 will be passed only for cases when customers shipping country matches customer locale in SFCC. Review section multi-location support for more details.

8.3 Attributes data mapping

Braintree API Attribute	SFCC Attribute/Formula	SFCC Attribute Description
discountAmount	<code>productDiscount += ProductLineItem.price.subtract(ProductLineItem.adjustedPrice)</code> <code>orderDiscount = order.getAdjustedMerchandiseTotalPrice(false) - order.getAdjustedMerchandiseTotalPrice(true)</code> <code>shippingDiscount = order.getShippingTotalPrice() - order.getAdjustedShippingTotalPrice()</code> <code>productDiscount + orderDiscount + shippingDiscount</code>	<p>A Level 3 field that specifies the discount amount that was included in the total transaction amount.</p> <p>It can't be negative, and it does not add to the total transaction amount. This Braintree line-item field is not used by PayPal.</p>
taxAmount	<code>order.getTotalTax()</code>	<p>A Level 2 field that specifies the amount of tax that was included in the total transaction amount.</p> <p>The value can't be negative, and in most cases, it must be greater than zero in order to qualify for lower interchange rates.</p> <p>It does not add to the total transaction amount.</p>
shippingAmount	<code>order.getAdjustedShippingTotalPrice().toNumberString()</code>	<p>A Level 3 field that specifies the shipping cost on the entire transaction.</p> <p>It can't be negative, and it</p>

		does not add to the total transaction amount.
unitAmount	<code>ProductLineItem.proratedPrice.divide(ProductLineItem.quantityValue).getDecimalValue().toString()</code>	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. Zero is allowed for PayPal transactions.
quantity	<code>ProductLineItem.getQuantityValue()</code>	Number of units of the item purchased. Can include up to 4 decimal places. This value can't be negative or zero.
unitTaxAmount	Not set by SFCC	Per-unit tax price of the item. Can include up to 2 decimal places. This value can't be negative.
taxAmount	<code>ProductLineItem.proratedPrice.multiply(ProductLineItem.taxRate).getDecimalValue().toString()</code>	Not described
discountAmount	<code>ProductLineItem.getPrice().subtract(ProductLineItem.getProratedPrice())</code>	Discount amount for the line item. Can include up to 2 decimal places. This value can't be negative. This Braintree line-item field is not used by PayPal.
totalAmount	<code>ProductLineItem.proratedPrice.toNumberString()</code>	Quantity multiply by unit amount. Can include up to 2 decimal places.

9 Multi-location addresses support

9.1 General info

Out of the box Braintree using build in SFRA core location support for checkout from billing page.

For checkout from pdp/minicart/cart using Apple Pay or PayPal cartridge doesn't provide any validation for addresses that was received from PayPal or Apple pay. Addresses will be mapped to Shipping or Billing address in Order automatically.

10 Multi-brand support

10.1 General info

Braintree cartridges don't come with multi-brand support out of the box.

On service level build in logic will use only `int_braintree.http.graphql.payment.Braintree` service and credential attached to the service to communicate Braintree API.

11 Gift Certificate Support

11.1 General info

Braintree cartridges don't provide an ability to add gift certificate to a basket or redeem gift certificates during checkout.

Customer can pay for a gift certificate using Braintree payment methods.

If customer adds a gift certificate as a payment option and it partially covers the order total, customer can pay the rest using Braintree payment methods. In this case gift certificate amount will be treated as discount and subtracted from the order total.

11.2 Technical info

Integration supports only gift certificates from B2C Commerce API. Gift certificate as product should be present as `GiftCertificateLineItem` in a basket. Gift Certificate as payment method should be applied as `OrderPaymentInstrument` using `createGiftCertificateLineItem` function.

For more information, contact your Braintree support manager.

12 Version and SFRA Support Info

12.1 JavaScript Files and Cartridge Version Locations

The JavaScript files to be added to your page are located at:

`int_braintree/cartridge/config/braintreePreferences.js`

The file with the current version of the Braintree cartridge is located at:

`int_braintree/cartridge/templates/resources/braintreeVersion.properties`

The file with the current version of the SFRA cartridge is located at:

`app_storefront_base/cartridge/templates/resources/version.properties`

12.2 SFRA Versions Support

Braintree cartridge version 24.1.0 supports SFRA 6.3.0 only.

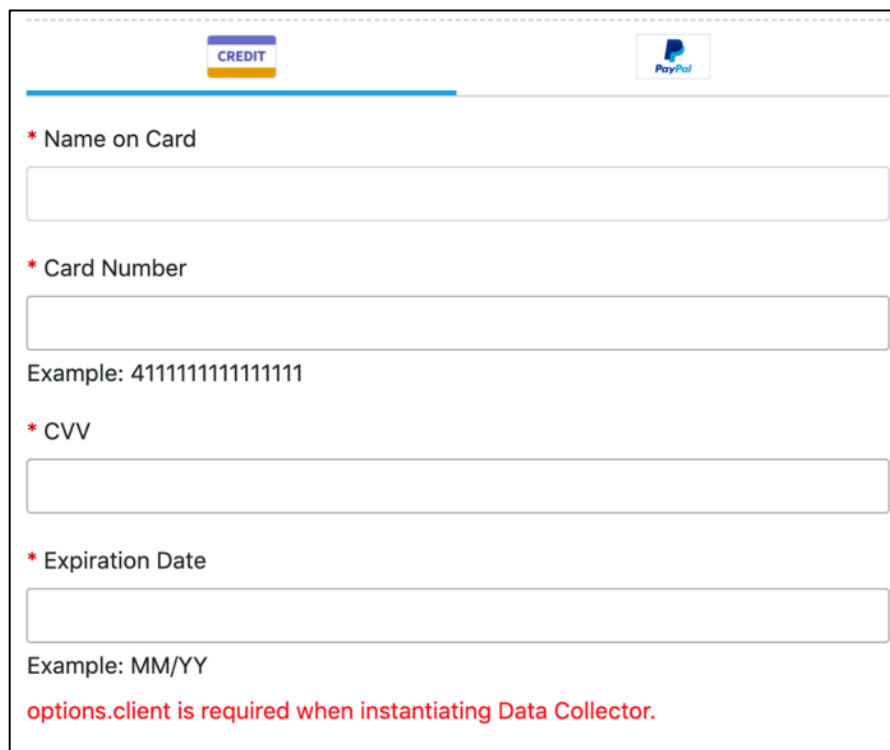
12.3 Compatibility Mode

Cartridge tested with Compatibility Mode 21.2

13 Service Errors Handling

13.1 Service Timeout Handle

If a Braintree service becomes unavailable, the customer will see errors on the card or payment page.



The screenshot shows a payment form with a dashed border. At the top, there are two logos: a 'CREDIT' logo on the left and a 'PayPal' logo on the right. Below the logos, there are four input fields, each preceded by a red asterisk indicating a required field:

- * Name on Card: A text input field.
- * Card Number: A text input field. Below it, an example number is provided: 'Example: 4111111111111111'.
- * CVV: A text input field.
- * Expiration Date: A text input field. Below it, an example date is provided: 'Example: MM/YY'.

At the bottom of the form, a red error message is displayed: 'options.client is required when instantiating Data Collector.'

Figure 13.1.1. Hosted Fields Error

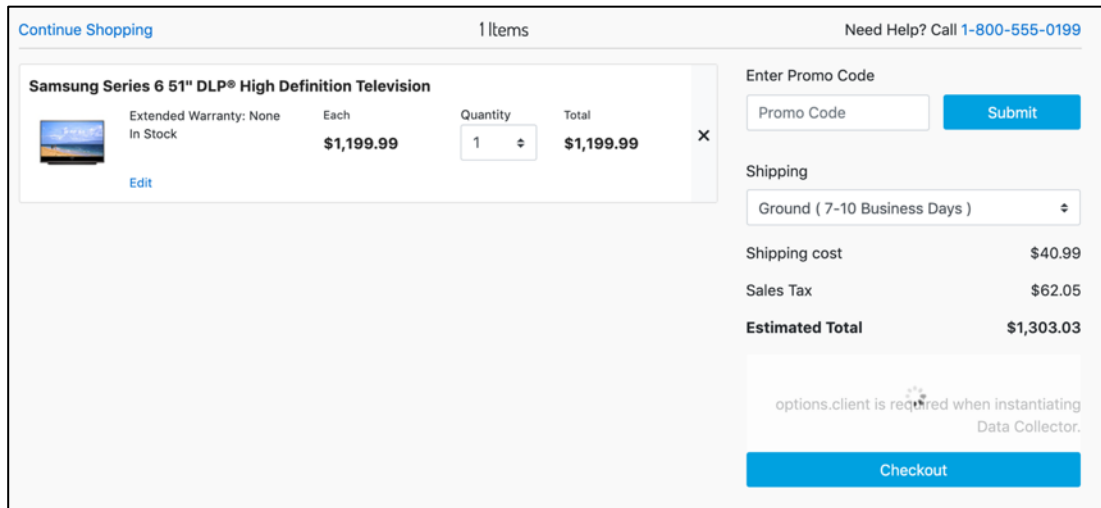


Figure 13.1.2. PayPal button didn't render due to service error

Depending on the error type, details can also be found in the logs with the **custom-Braintree** and **service-Braintree** prefix. For more details, please see Section Logs.

13.2 Handling Error Service Response

If unexpected error occurs while processing transaction, a customer will see a message (Figure 13.2.1):

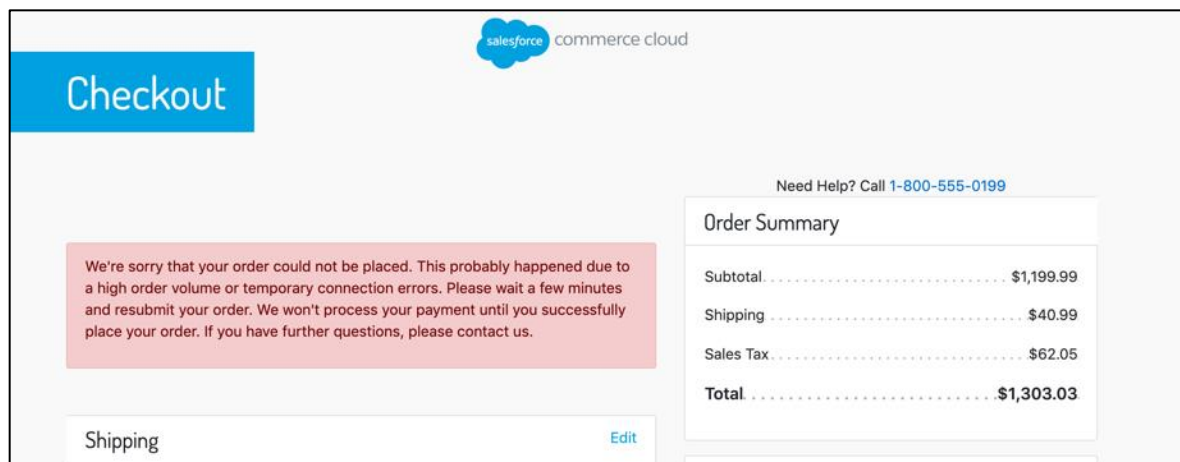


Figure 13.2.1. Transaction Error Message

If there was a response from Braintree, It can be one of 3 use cases:

- 1) If declined response with status code starting form 2 comes from Braintree side, customer will be redirected to a billing page with message:

There was a problem processing your payment. Please verify your payment information and try again.

For more information about response code please review [Declines](#) .

- 2) If declined response with status code 3000 comes from Braintree side, customer will be redirected to a billing page with message:

Network error, please try again later

- 3) If declined response with status code 91540 comes from Braintree side, customer will be redirected to a billing page with message:

There was a problem processing your payment. Please re-enter your payment information and try again.

Error details can be found in the log with the **custom-Braintree** prefix and in failed order details (Figure 13.2.2). Service request/response details can be found in the log with the **service-Braintree** prefix.

Merchant Tools > Ordering > Orders > Order: 00028303(SiteGenesis)

General Attributes **Payment** Notes History

Payment Information for Order '00028303'

Order Total:	\$1,986.59
Amount Paid:	\$0.00
Balance Due:	\$1,986.59

Invoice Number:	
Payment Status:	Not Paid

Payment Method:	CREDIT_CARD Processor: BRAINTREE_CREDIT Transaction: Amount: \$1,986.59	Billing Address:	Rick Flores 2253 Hudson Street Denver CO 80207 us
-----------------	--	------------------	--

Braintree Payment Method Nonce: tokenize_hpp_nonce_7c3pk8f_vd2aw_vd8ftb_v76

Braintree Order Fail Reason: Unknown or expired payment_method_nonce.

Braintree 3D secure is required: false

Print Invoice

Figure 13.2.2. Error Details

NOTE: For fallback / recovery: If you continue to see issues where the Braintree Hosted Fields (credit card fields) are invoking errors, or the PayPal or PayPal Pay Later buttons and/or experiences are not rendering or if you are seeing general 401 errors in the logs, please contact your Braintree rep or file a support case so that we may investigate this further. These orders will not be sent to or processed by Braintree. Please note that when contacting Braintree, we may ask for details that may need to be extracted from the logs as well as assistance with reproducing the issue step by step.

14 Automated Testing

Cartridge has unit, integration and function tests included in the repository.

Please use instructions described in the `test/unit/README.md`, `test/integration/README.md`, and `test/acceptance/README.md` files in the repository to configure and run tests.

15 Known Issues

15.1 Second login through Login with PayPal

In case when buyer logs in through Login with PayPal, he lands on "my account page" in logged in state within pop up. When pop up is closed, buyer see initial

login page where is still not logged in. If buyer tries to login second time, error appears, as customer is already logged in and needs to refresh page to see actual login state.

16 Upgrade Guide

Upgrading to 24.1.0 or newer from 23.1.0 or earlier

16.1 Manual update

List of custom attributes (should be removed)

Old attribute ID	New attribute ID
PP_ShowCreditFinancialBanners	BRAINTREE_PAYPAL_Show_Credit_Financial_Banners
PP_Merchant_Publisher_ID	BRAINTREE_PAYPAL_Merchant_Publisher_ID
PP_Credit_Campaign_ID	BRAINTREE_PAYPAL_Credit_Campaign_ID
BRAINTREE_Merchant_Account_IDs	BRAINTREE_GENERAL_Merchant_Account_IDs
BRAINTREE_Vault_Mode	BRAINTREE_GENERAL_Vault_Mode
BRAINTREE_SETTLE	BRAINTREE_GENERAL_Settle
BRAINTREE_Restriction_PM_Removal	BRAINTREE_GENERAL_Restriction_Payment_Method_Removal
BRAINTREE_L2_L3	BRAINTREE_GENERAL_L2_L3
BRAINTREE_Custom_Fields	BRAINTREE_GENERAL_Custom_Fields
BRAINTREE_3DSecure_Enabled	BRAINTREE_CC_3DSecure_Flow (always)
BRAINTREE_3DSecure_Skip_Client_Validation_Result	Removed
BRAINTREE_3DSecure_Fallback	BRAINTREE_CC_3DSecure_Flow (auto)
BRAINTREE_3DSecure_Verification_Account_Page	BRAINTREE_CC_3DSecure_Account_Page
BRAINTREE_CREDIT_REVERIFY_ENABLED	BRAINTREE_CREDIT_Reverify_Enabled
BRAINTREE_CC_Expire_Notification	BRAINTREE_CREDIT_Expire_Notification
BRAINTREE_PAYPAL_ChangePaymentMethodButton_Enabled	BRAINTREE_PAYPAL_Change_Payment_Method_Button_Enabled
BRAINTREE_PAYPAL_Dropin_UI_Credit_Button_Visibility	Removed
BRAINTREE_PAYPAL_Credit_Pay_Later_Button_Enabled	BRAINTREE_PAYPAL_Pay_Later_Button_Enabled

List of attribute groups (should be removed)

Old group ID	New group ID
BRAINTREE_COMMON	BRAINTREE_GENERAL

Paypal_Pay_later	BRAINTREE_PAYPAL_PAY_LATER
Paypal_Credit_Financial_Options	BRAINTREE_PAYPAL_CREDIT_FINANCIAL_OPTIONS

There are two ways to remove old attributes.

First approach:

- Remove old attributes:
 - Go to Business Manager > Administration > Site Development > System Object Types > Site Preferences - Attribute Definitions
 - Select a checkbox for the required IDs.
 - Click on Delete button and you will see a message (Are you sure that you want to execute the following action for these items: delete?)
 - Click on *Delete* button.
- Remove old groups:
 - Go to Business Manager > Administration > Site Development > System Object Types > Site Preferences - Attribute Groups
 - Select a checkbox for the required IDs.
 - Click on Delete button and you will see a message (Are you sure that you want to execute the following action for these items: delete?)
 - Click on *Delete* button.

Second approach:

PLEASE NOTE: Using this approach you may affect the metadata from the other cartridges. We recommend using the first way to remove old attributes.

- Remove old attributes and groups:
 - Go to Business Manager > Administration > Site Development > Import & Export

[Administration](#) > [Site Development](#) > Import & Export

Import & Export

Meta Data

[Import](#) and [export](#) your system meta data (i.e., system type extensions, custom object types, custom preference definitions).
 [Import](#) [Export](#)

Geolocations

[Import](#) geolocations for a country.
 [Import](#)

Import & Export Files

[Upload](#) and [download](#) your import and export files.
 [Upload](#) [Download](#)

Status

There are currently no import or export processes to show here.
 [Refresh](#)

Figure 16.1.1. Import & Export

- Meta data > Click on *Export* button.
- Select the checkbox *System Object Type Extensions*

- Specify the file name for export (for example: bt-system-object-type-extensions.xml)

[Administration](#) > [Site Development](#) > [Import & Export](#) > Step 1 - Select Export File

System Type Extension Export - Step 1: Select Export File

Select the meta data objects that you want to export and provide a name for the export file. Fields with a red asterisk (*) are mandatory.

Export File:*	<input type="text" value="bt-system-object-type-extensions.xml"/>
<input checked="" type="checkbox"/> System Object Type Extensions	
<input type="checkbox"/> Custom Object Type Definitions	
<input type="button" value="Export"/> <input type="button" value="Cancel"/>	

Figure 16.1.2. Export System Object Type Extensions

- Click on *Export* button.
- Wait until the export status is *Success*.

[Administration](#) > [Site Development](#) > Import & Export

Import & Export

Meta Data	
Import and export your system meta data (i.e., system type extensions, custom object types, custom preference definitions).	<input type="button" value="Import"/> <input type="button" value="Export"/>
Geolocations	
Import geolocations for a country.	<input type="button" value="Import"/>
Import & Export Files	
Upload and download your import and export files.	<input type="button" value="Upload"/> <input type="button" value="Download"/>

Status

Select All	Process	Start	Duration	Status
<input type="checkbox"/>	Meta Data Export <bt-system-object-type-extensions.xml>	5/16/23 8:19:04 am	00:00:00	Running
<input type="checkbox"/>	Meta Data Export <bt-system-object-type-extensions.xml>	5/16/23 8:18:52 am	00:00:03	Success

Figure 16.1.3. Successful export of meta data

- Download the exported file and delete the old attributes and groups. Be attentive.
- Upload the modified file for import. Click on *Upload* button.

[Administration](#) > [Site Development](#) > Import & Export

Import & Export

Meta Data	
Import and export your system meta data (i.e., system type extensions, custom object types, custom preference definitions).	<input type="button" value="Import"/> <input type="button" value="Export"/>
Geolocations	
Import geolocations for a country.	<input type="button" value="Import"/>
Import & Export Files	
Upload and download your import and export files.	<input type="button" value="Upload"/> <input type="button" value="Download"/>

Status

Select All	Process	Start	Duration	Status
<input type="checkbox"/>	Meta Data Export <bt-system-object-type-extensions.xml>	5/16/23 8:19:04 am	00:00:00	Running
<input type="checkbox"/>	Meta Data Export <bt-system-object-type-extensions.xml>	5/16/23 8:18:52 am	00:00:03	Success

Figure 16.1.4. Upload button

- Click on *Choose file* button and select modified file. Click on *Upload* button.

[Administration](#) > [Site Development](#) > [Import & Export](#) > Manage Import Files

Upload Import Files

Upload File: bt-system-o...xtensions.xml Left-click or drag and drop multiple files to upload them.

Manage Import Files [Go To WebDAV Folder](#)

The table below shows the import files currently available on the server.
To upload new files, click Browse and then Upload in the file upload section above.
To delete uploaded files, select them using the checkboxes and then click Delete.

There are currently no uploaded import files available on the server.

[<< Back](#)

Figure 16.1.5. Upload import file

[Administration](#) > [Site Development](#) > [Import & Export](#) > Manage Import Files

Upload Import Files

Upload File: No file chosen Left-click or drag and drop multiple files to upload them.

Manage Import Files [Go To WebDAV Folder](#)

The table below shows the import files currently available on the server.
To upload new files, click Browse and then Upload in the file upload section above.
To delete uploaded files, select them using the checkboxes and then click Delete.

Select All	Name	File Size	Last Modified	
<input type="checkbox"/>	bt-system-object-type-extensions.xml	432.19 KB	5/16/23 8:40:51 am	
				<input type="button" value="Uncompress"/> <input type="button" value="Compress"/> <input type="button" value="Delete"/>

Figure 16.1.6. Import files view

- Go to Business Manager > Administration > Site Development > Import & Export
- Meta data > Click on Export button.
- Mark file that you want to import and click *Next* button.

[Administration](#) > [Site Development](#) > [Import & Export](#) > Step 1 - Select Import File

System Type Extension Import - Select File

Step 1 of 3. Next Step: Validate Import File

The list below shows all uploaded import files. Please select the file that you want to import.

Select	Name	File Size	Last Modified
<input checked="" type="radio"/>	bt-system-object-type-extensions.xml	432.19 KB	5/16/23 8:40:51 am

[Next >>](#)

Figure 16.1.7. Import files processing

- Mark checkbox in [Import Options](#) section and click *Import* button.

System Type Extension Import - Validate File

Step 3 of 3.

Enable the import option if you want to remove existing attribute definitions and attribute groups that aren't contained in the import file. Start the import by clicking **Import**.

Validation Status	
Current Action	Finished XML schema validation.
Validation Errors	0
Validation Warnings	0

Import File Content	
System Type Extensions	63
Custom Type Definitions	0
Attribute Definitions	997
Attribute Value Definitions	508
Attribute Group Definitions	71
Custom Preference Groups	0
Custom Preference Definitions	0

Import Options

☒ Delete existing attribute definitions and attribute groups not contained in the import file, including attribute definitions marked as "externally-defined".

[<< Previous](#) [Import](#) [Cancel](#)

Figure 16.1.8. Import files processing

- Confirm the action, click **OK** button.
- Wait until the Import status is **Success**.

Status

Select All	Process	Start	Duration	Status
<input type="checkbox"/>	Meta Data Import <bt-system-object-type-extensions.xml>	5/16/23 8:52:13 am	00:00:01	Success

Figure 16.1.9. Import files success

17 Fastlane by PayPal

17.1 Overview

Fastlane by PayPal is a new one-click guest checkout experience that merchants utilizing PayPal's platform can offer to their shoppers. This allows customers to make quick and hassle-free purchases. With Fastlane, customers can save their information for a checkout process that can be as quick as a single tap. There is no need to remember a username or password, no need to update personal information, and no need to share a credit card with multiple businesses over the internet.

NOTE: The following Braintree plugin site preferences are NOT applied to Fastlane Checkout:

- Session Payments
- Braintree Credit Card Re-Verify Enabled
- Braintree Credit Card Expire Notification Configuration

- Limit of saved credit cards

NOTE: 3DS is not supported in the scope of the initial release. 3DS site preferences are not applicable.

NOTE: The Fastlane UI will not work properly if the Storefront cartridge path contains the Drop-in cartridge.

17.2 Configuration

In Business Manager navigate to Merchant Tools -> Braintree Plugin -> Preference Configuration -> Fastlane by PayPal tab and set Enable Fastlane preferences to Yes. (Figure 17.2.1 Enable FastlaneFigure 17.2.1).

General Credit Card PayPal Apple Pay Google Pay Secure Remote Commerce Venmo **Fastlane by PayPal**

Fastlane By PayPal

Instance Type
Sandbox

Search by ID

Name	Value	Default Value	Property Description
Enable Fastlane (BRAINTREE_FASTLANE_Check... (Boolean)	Yes	No	Offer an accelerated checkout experience that recognizes guest shoppers and autofills their details so they can pay in seconds.

Figure 17.2.1 Enable Fastlane.

To set watermark:

Navigate to Merchant Tools -> Braintree Plugin -> Preference Configuration -> Fastlane by PayPal tab and set Enable Fastlane Privacy preferences to Yes. (Figure 17.2.1 Enable FastlaneFigure 17.2.2).

Recommendation when the Fastlane Privacy is disabled:

PayPal powers this accelerated checkout solution from Fastlane. Since you will share consumers' email address with PayPal, please consult your legal advisors on the appropriate privacy setting for your business.

Fastlane Privacy
(BRAINTREE_FASTLANE_Privacy_E...
(Boolean)

Yes

Yes

This setting will control whether Fastlane branding is shown by email field. Terms & Conditions: PayPal powers this accelerated checkout solution from Fastlane. Since you'll share consumers' email address with PayPal, please consult your legal advisors on the appropriate privacy settings for your business.

Figure 17.2.2 Enable Fastlane Privacy.

Customer

Email

Fastlane by PayPal ⓘ

Continue as guest

Figure 17.2.3 Fastlane Watermark.

To set cardholder name navigate to Merchant Tools -> Braintree Plugin -> Preference Configuration -> Fastlane by PayPal tab and set Cardholder Name to Yes. (Figure 17.2.4 and Figure 17.2.5)

Cardholder Name (BRAINTREE_FASTLANE_Cardh... (Boolean)	Yes ▼ Yes	This setting will control whether or not the cardholder name is displayed in the card field's UI. Note: Is not applicable for Payment UI component.
---	-----------	---

Figure 17.2.4 Enable Cardholder Name.

Payment

Billing Address

Gary Geuest 123 Main St New York City, NY 10001

Update Address Add New

*Phone Number ⓘ

12125550123

CREDIT PayPal G Pay

Card number

Expiration (MM/YY) CVV

Name on card
Gary Geuest

Figure 17.2.5 Cardholder name field.

NOTE: Cardholder name is not applicable for Payment UI component. The cardholder name can be disabled only in the native UI (the Fastlane Payment UI site preference should be set to 'No').

To protect yourself against cross site scripting attacks, you need to send the actual domain name(s) to Braintree. In Business Manager navigate to Merchant Tools -> Braintree Plugin -> Preference Configuration -> Fastlane by PayPal tab and set your production root domain(s) in the List of domains site preference.

Up to 5 domains could be added.

NOTE: You must provide the root domain name (for example: “example.com”). Specifying subdomains or HTTP protocols (“https://”) will result in an error.

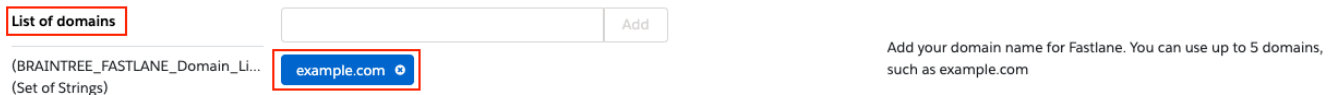


Figure 17.2.6 List of domains.

17.3 Fastlane by PayPal checkout for PayPal payment UI configuration.

In Business Manager navigate to Merchant Tools -> Braintree Plugin -> Preference Configuration -> Fastlane by PayPal tab and set Payment UI preferences to No. (Figure 17.3.1)

If "Yes" is selected: Fastlane integration uses PayPal Payment UI components during the Fastlane Checkout.

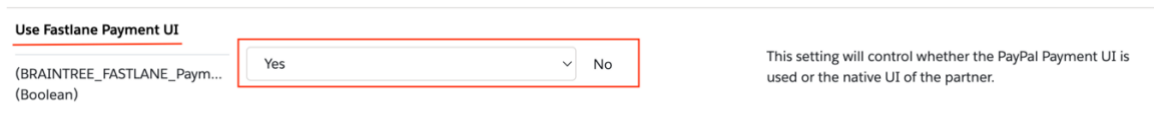


Figure 17.3.1 Enable Fastlane Payment Ui.

17.3.1 Checkout for Fastlane guest

1. Proceed to checkout flow for a storefront guest user.
2. Enter a shipping address and choose a shipping method.

NOTE: In case you use the Salesforce out-of-the-box multi-shipping option, only one shipping address related to the first item in the cart will be used for Fastlane account creation.

3. Select the Credit Card payment method.
4. The Fastlane hosted fields will be shown. (Figure 17.3.2)
5. Enter Credit Card data and proceed to place the order. (Figure 17.3.3)

Payment

CREDIT PayPal G Pay

Card number

Expiration (MM/YY) CVV

Name on card
garyGeuest

☒ Billing address same as shipping

Save your info with Fastlane for faster checkouts

Mobile number
+1 (212) 555-0123

By saving your info, you agree to get codes by text to use Fastlane everywhere it's available.
You also agree to the [terms](#) and [privacy statement](#).

Fastlane by PayPal

Figure 17.3.2 Guest Fastlane fields for Payment UI.

Payment

CREDIT PayPal G Pay

Card number
4111 1111 1111 1111

Expiration (MM/YY) CVV
12 / 29 256

Name on card
garyGeuest

☒ Billing address same as shipping

Save your info with Fastlane for faster checkouts

Mobile number
+1 (212) 555-0123

By saving your info, you agree to get codes by text to use Fastlane everywhere it's available.
You also agree to the [terms](#) and [privacy statement](#).

Fastlane by PayPal

Next: Place Order

Figure 17.3.3 Place order for the guest user through the Payment UI.

- To create a Fastlane account, activate the toggle that indicates your consent to the creation of a Fastlane member account.

The screenshot shows a payment form titled "Payment". At the top, there are logos for CREDIT, PayPal, G Pay, and a double arrow icon. Below these are input fields for Card number (4111 1111 1111 1111), Expiration (MM/YY) (12 / 29), CVV (256), and Name on card (garyGeuest). A checkbox labeled "Billing address same as shipping" is checked. Below this is a section titled "Save your info with Fastlane for faster checkouts" with a red box highlighting a blue toggle switch that is turned on. A mobile number field contains "+1 (212) 555-0123". At the bottom, there is a blue button labeled "Next: Place Order".

Figure 17.3.4 Consent of creation Fastlane member account.

7. To complete the payment process without creating a Fastlane member account, it is necessary to deactivate the toggle that indicates your consent to the creation of a Fastlane member account (Figure 17.3.5).

This screenshot is identical to the previous one, but the blue toggle switch for "Save your info with Fastlane for faster checkouts" is now turned off, highlighted by a red box.

Figure 17.3.5 Save checkbox.

Session payment is applicable for a Fastlane guest user.

1. Follow checkout flow for Checkout for Fastlane guest.
2. On the Order Review page move back to the previous step.

3. Session payment will be shown.
4. A Fastlane guest user can select Session payment (Figure 17.3.6) or add a new Credit Card (Figure 17.3.7).

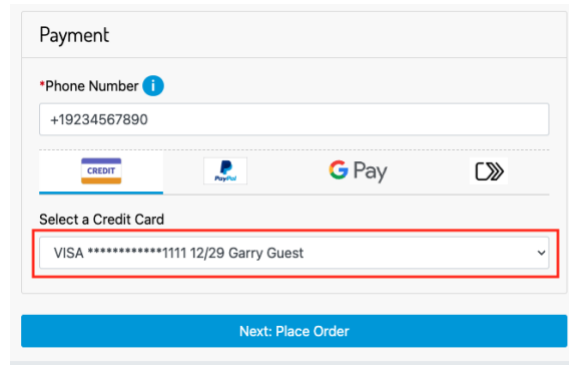


Figure 17.3.6 Session payment for Fastlane guest users.

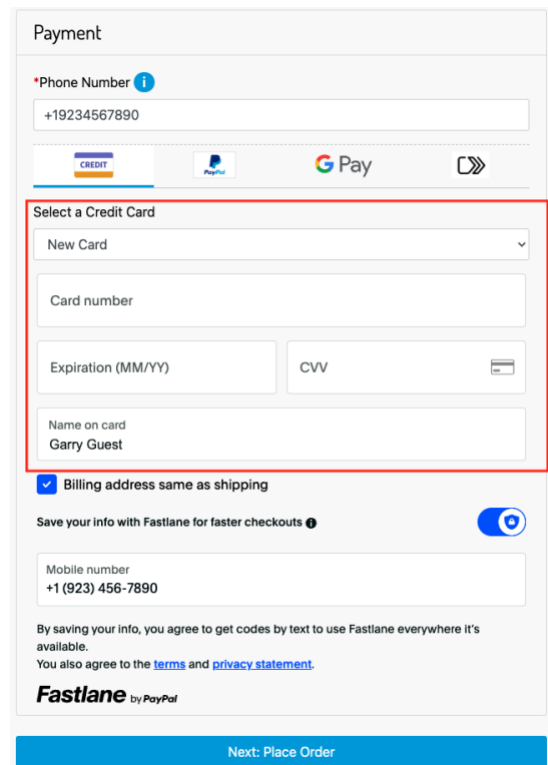


Figure 17.3.7 Adding a new Credit Card for Session payment.

17.3.2 Checkout for Fastlane member

1. Proceed to checkout flow for a storefront guest user.
2. Enter the email which is connected to the Fastlane network.
3. The OTP(One Time Password) popup window will be shown. (Figure 17.3.8)

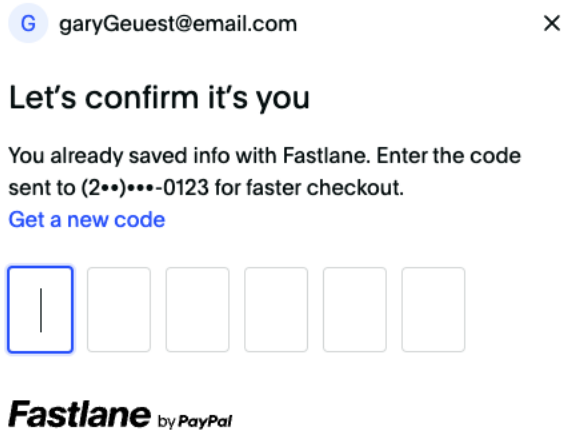


Figure 17.3.8 OTP popup window.

- A Fastlane member can proceed to place an order with shipping and payment data, which is retrieved from their Fastlane account. (Figure 17.3.9)

Customer	Edit
Customer Information: test@tst.com	
Shipping	Edit
Shipping Address: Tania Lieberman 2348 Rardin Drive 2348 Rardin Drive San Bruno CA 94066 14026607986 Fastlane by PayPal	
Shipping Method: Ground (7-10 Business Days) \$5.99	
Payment	Edit
Billing Address: Fred Flintstone 2211 North 1st St San Jose CA 95131 test@tst.com 14026607986	
Payment: Credit Card *****1111 Visa Fastlane by PayPal \$111.28	
<div>Place Order</div>	

Figure 17.3.9 Placing order for Fastlane members.

- To change shipping address press, **edit** button Order Review page, and then select **change**. (Figure 17.3.10 and Figure 17.3.11)
The popup window for changing or adding a new shipping address will be shown. (Figure 17.3.12 and Figure 17.3.13)

Customer

Customer Information:

test@tst.com

Shipping

Shipping Address:

Tania Lieberman
2348 Rardin Drive
2348 Rardin Drive
San Bruno CA 94066
14026607986

Fastlane by PayPal

Shipping Method:

Ground (7-10 Business Days) \$5.99

Payment

Billing Address:

Fred Flintstone
2211 North 1st St
San Jose CA 95131
test@tst.com
14026607986

Payment:

Credit Card
*****1111

Visa

Fastlane by PayPal

\$69.28

Place Order

Figure 17.3.10 Changing shipping address, step 1.

Customer

Customer Information:

test@tst.com

Shipping

Shipping Address:

Tania Lieberman
2348 Rardin Drive
2348 Rardin Drive
San Bruno CA 94066
14026607986

Fastlane by PayPal

Shipping Method

☒ Ground (7-10 Business Days) \$5.99
☐ 2-Day Express (2 Business Days) \$9.99
☐ Free USD \$0.00
☐ Overnight (Next Day) \$15.99
☐ Super Saver (3-7 Business Days) \$1.99

☐ This is a Gift

Next: Payment

Figure 17.3.11 Changing shipping address, step 2.

Choose an address ×

San Bruno, CA 94066, US
+1 402-660-7986

Oleksandra Davydchuk
7700 Eastport Pkwy
La Vista, NE 68128, US
+1 402-660-7986

Ivan Vinogradov
2253 Hudson Street
Denver, CO 80207, US
+1 402-660-7986

Tania Lieberman ✓
2348 Rardin Drive
San Bruno, CA 94066, US
+1 402-660-7986

Fred Flintstone
10143 PayPal Road
Omaha, NE 68136, US
+1 402-660-7986

[+ Add an address](#)

Fastlane by PayPal

Figure 17.3.12 Popup window for changing or adding a new shipping address.

←
Add a shipping address
×

Country
United States

First name
Fred

Last name
Flintstone

Company name (optional)

Street address

Apt., ste., bldg. (optional)

City

State

ZIP code

Code
+1

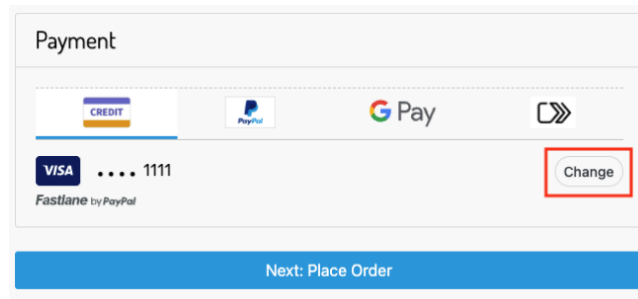
Phone number
(402) 660-7986

Add Address

Fastlane by PayPal

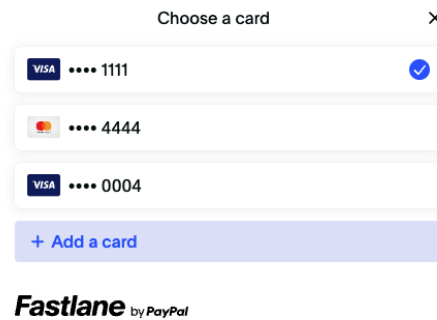
Figure 17.3.13 Popup window for adding new shipping address.

6. A Fastlane member has the option to change or add a new Credit Card and Billing Address (Figure 17.3.14, Figure 17.3.15, Figure 17.3.16, Figure 17.3.17).



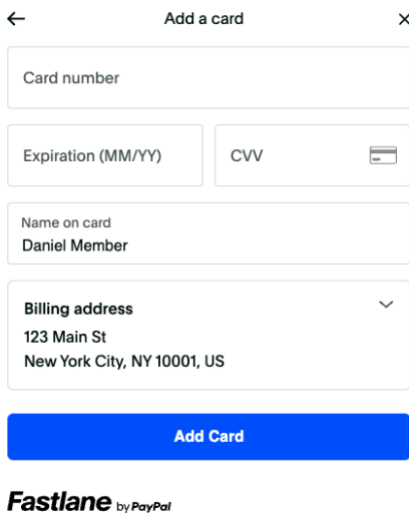
The screenshot shows a 'Payment' section with several options: 'CREDIT', 'PayPal', 'G Pay', and a chevron icon. Below these, a 'VISA' card ending in '1111' is displayed with the text 'Fastlane by PayPal' underneath. A red rectangular box highlights a 'Change' button to the right of the card. At the bottom, a blue button labeled 'Next: Place Order' is visible.

Figure 17.3.14 Change or add a new Credit Card option step 1.



The screenshot shows a 'Choose a card' popup window with a close button (X) in the top right. It lists three credit cards: a 'VISA' card ending in '1111' with a blue checkmark, a 'MasterCard' ending in '4444', and another 'VISA' card ending in '0004'. At the bottom, there is a blue button labeled '+ Add a card'. The 'Fastlane by PayPal' logo is at the bottom of the screen.

Figure 17.3.15 Credit Card list popup window.



The screenshot shows an 'Add a card' popup window with a back arrow and a close button (X). It contains several input fields: 'Card number', 'Expiration (MM/YY)', 'CVV' (with a card icon), 'Name on card' (pre-filled with 'Daniel Member'), and 'Billing address' (pre-filled with '123 Main St, New York City, NY 10001, US'). A blue 'Add Card' button is at the bottom. The 'Fastlane by PayPal' logo is at the bottom of the screen.

Figure 17.3.16 Adding new Credit Card popup window.

Figure 17.3.17 Adding new Billing Address popup window.

17.3.3 Checkout for Fastlane member via PayPal account

1. Proceed to checkout flow for a storefront guest user.
2. Confirm to use Fastlane Checkout in the popup window (Figure 17.3.18)

Figure 17.3.18 Confirmation popup window for PayPal users.

3. After confirmation, user continues checkout as a Fastlane member (as described in Checkout for Fastlane member)

17.4 Fastlane by PayPal checkout for native UI configuration.

In Business Manager navigate to Merchant Tools -> Braintree Plugin -> Preference Configuration -> Fastlane by PayPal tab and set Payment UI preferences to Yes. (Figure 17.4.1)

If "No" (default) value is selected: Fastlane integration uses native UI components during the Fastlane Checkout.

Use Fastlane Payment UI	
(BRAINTREE_FASTLANE_Paym... (Boolean)	<div><div>No</div><div>No</div></div>

This setting will control whether the PayPal Payment UI is used or the native UI of the partner.

Figure 17.4.1 Enable Fastlane Payment UI.

Checkout for Fastlane guest and Fastlane member with native UI is the same as for payment UI integration. The main difference is that the Payment UI utilizes Fastlane styles, which cannot be altered.

17.4.1 Checkout for Fastlane guest

1. Proceed to checkout flow for a storefront guest user.
2. Enter a shipping address and choose a shipping method.

NOTE: In case you use the Salesforce out-of-the-box multi-shipping option, only one shipping address related to the first item in the cart will be used for Fastlane account creation.

3. Select the Credit Card payment method.
4. Enter Credit Card data and proceed to place the order. (Figure 17.4.2)

The screenshot shows a 'Payment' form for a guest user. It includes a 'Billing Address' dropdown menu with the text 'Daniel Guest 123 Main St New York City NY 10001'. Below this are links for 'Update Address' and 'Add New'. A 'Phone Number' field is present with a red asterisk and a help icon, containing the number '12125550123'. Below the phone number are icons for 'CREDIT', 'PayPal', 'Google Pay', and 'Venmo'. The 'CREDIT' icon is highlighted. Below these icons are input fields for 'Card number', 'Expiration (MM/YY)', and 'CVV'. A 'Name on card' field contains the text 'Daniel Guest'. Below this is a section titled 'Save your info with Fastlane for faster checkouts' with a toggle switch that is currently turned on. Below the toggle is a 'Mobile number' field containing '+1 (212) 555-0123'. At the bottom, there is a disclaimer: 'By saving your info, you agree to get codes by text to use Fastlane everywhere it's available. You also agree to the terms and privacy statement.' Below the disclaimer is the 'Fastlane by PayPal' logo. At the very bottom is a blue button labeled 'Next: Place Order'.

Figure 17.4.2 Place order for the guest user through the native UI.

17.4.2 Checkout for Fastlane member

PayPal checkout for Fastlane member with Native UI configuration is the same as for Fastlane member with PayPal payment UI. (Described in section 17.3.2).

17.5 Styles for Fastlane by PayPal Checkout

The Fastlane checkout styles file is located at the following path:
cartridges/int_braintree/cartridge/config/fastlaneStyleOptions.js

NOTE: The style configuration may vary depending on the Fastlane SDK version.