

Payment Cartridge Integration

### *link\_checkoutcom | Version 2*2*.1.0*



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## Summary

Checkout.com is a software platform that has integrated 100% of the value chain to create pay- ment infrastructures that truly make a difference. Checkout.com is authorised and regulated by the Financial Conduct Authority under the Electronic Money Regulations 2011 (reference num- ber 900816) to issue electronic money and provide payment services.

The Checkout.com cartridge allows Salesforce Commerce Cloud (SFCC) store owners to process payments through the Checkout.com Payment Gateway.

This implementation guide describes how to integrate the Checkout.com payment cartridge into SFCC reference application. The integration is cross-browser, cross-device compatible, and can accept online payments from all major credit cards.

The Checkout.com LINK cartridge package contains 3 folders:

1. **int\_checkoutcom -** Site Genesis integration for the checkout.com payment gateway
2. **int\_checkoutcom\_sfra -** SFRA integration for the checkout.com payment gateway
3. **bm\_checkoutcom -** BM integration for the checkout.com payment gateway

This integration has been designed using Javascript Controllers and doesn’t contain any depre- cated Pipelines code. For a maximisation of the conversion rate, the buyer is not redirected to third party sites during the payment process. Consequently, the shop operator does not need a PCI DSS certification to use the solution.

In order to test or effectively process payments through the Checkout.com Payment Gateway, you will need to open an account. Please contact your Checkout.com account manager or send an email to [support@checkout.com](mailto:support@checkout.com) for more information.

## Component Overview

# Functional Overview

The Checkout.com cartridge for Salesforce Commerce Cloud (SFCC) connects your online store with the Checkout.com gateway and automates all payment processes, delivering a comprehensive payment integration with simple usability and maximum performance.

* Consolidated expertise for all payment methods and services
* End-to-end automation of all payment processes
* Seamless integration into the SFCC checkout process
* Central administration directly in the SFCC backend
* No PCI DSS certification necessary for you as a merchant
* Fast time-to-market due to the use of scalable cloud technologies

The following features are available directly through the SFCC Business Manager in the Hub, Checkout.com’s payment management backend:

* Fully featured transaction management: handle authorisation, capture, void, full or partial refund, blacklisting and chargebacks
* Customer/Card holder details, cards and address management
* Integrated risk engine with handling of fraud prevention

Checkout.com’s cartridge for Salesforce Commerce Cloud allows shoppers to perform secure payments without leaving the store and gives store owners a full control over payments and customers management.

The payment workflow can be summarised into 3 steps:

* Display the bank card payment form
* Submit the form, charge the customer for the total amount of the order, handle the response
* Display the order confirmation page or the cart with an error message in case of failure

Upon completion of a payment, detailed information about the order and the corres- ponding transaction is available in the order details in Business Manager.

# Use Cases

There is currently a single use case for this cartridge: the shopper is using the Checkout. com payment method to complete a purchase on a Salesforce Commerce Cloud website:

1. On the billing checkout step, a credit card payment form is displayed
2. The shopper provides card details and places an order
3. In case of payment success, the shopper is redirected to the order confirmation page
4. In case of payment failure, the shopper is redirected to the cart and can try again Please see section **5.3 Storefront functionality** for images of the payment process**.**

# Limitations, Constraints

1. The Checkout.com cartridge integration doesn't support multi-shipping and subscriptions in SiteGenesis.

# Compatibility

Available since Demandware 18.3

Compatible with Demandware 16.2 and above Cartridge developed in SiteGenesis 103.1.9 and SFRA 6.0.0

# Privacy, Payment

This integration requires access to the following customer data elements:

* Card Details
* Billing Address
* Shipping Address
* Order Details
* Customer Profile
* Some custom properties of Customer Payment Instruments.

## Implementation Guide

# Setup

The Checkout.com integration is contained in the bm cartridge **bm\_checkoutcom**. This single cartridge contains all the bm module functionalities. The integration is compatible with storefronts based on Javascript Controllers, as well as storefronts based on pipelines.

The **bm\_checkoutcom** cartridge folder contains the following files:

CONTROLLERS & PROCESSORS

* controllers/CKOTransactions.js

HELPERS

* scripts/helpers/CKOHelper.js

STATIC FILES

* static/default/css/core/global.css
* static/default/css/core/list.css
* static/default/css/core/modal.css
* static/default/js/core/actions.js
* static/default/js/core/list.js
* static/default/js/core/tabs.js

TEMPLATE FILES

* templates/application/MenuFrame.isml
* templates/default/inc/tabs.isml
* templates/default/transactions/list.isml
* templates/default/transactions/modal.isml

MISCELLANEOUS

* bm\_checkoutcom.properties
* scripts/config/ckoCurrencyConfig.js
* scripts/config/constants.js

The single **bm\_checkoutcom** Checkout.com cartridge is used for both testing (sandbox mode) and production (live mode). Once the cartridge installed, a parameter in the custom preferences of the Business Manager will allow you to set the running mode according to your needs.

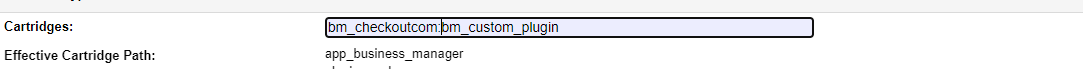
# Configuration

The steps required to enable the Checkout.com cartridge on your website are as de- scribed below. The following assumes you have a sandbox with a clean Site Genesis site or SFRA site.

1. Download the bm\_checkoutcom cartridge from the LINK Marketplace.
2. Upload bm\_checkoutcom to your server, using a tool like UX Studio or Webdav. Apply the standard flow used to upload cartridges to your environment.
3. In the Business Manager, go to **Administration > Sites > Manage Sites**

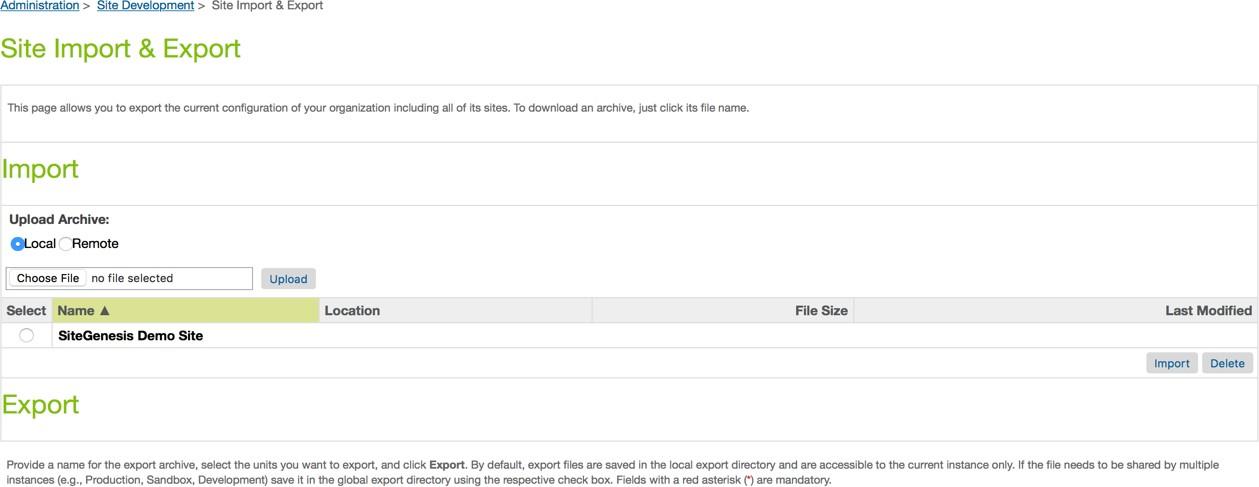
Then go the business manager site section and click on business manager.

Add **bm\_checkoutcom** to the cartridge path.



1. Go to **Administration > Site Development > Site Import & Export** to import the XML files available in the **metadata** folder.

Once in the Site Import section, follow the steps below to import the metadata folder:

* + Open a file browser (e.g. Windows Explorer in Windows) and locate the metadata folder of the cartridge. Step down the folder hierarchy until you are in the subfolder “sites”. Re-name the contained folder “SiteGenesisGlobal” to the name of the site for which you want to import int\_checkoutcom’s set- tings, payment methods and services.
  + Navigate back to the project’s root folder and create a zip **metadata.zip** out of the folder metadata.
  + Login to Business Manager and go to **Administration > Site Develop- ment > Site Import & Export**
  + Go to the section “Upload archive”. Choose “local” and click on the Browse button
  + Navigate in the file system, select the **metadata.zip** then click on “Open” and upload the zip file.
  + Check the import status in the Status section.

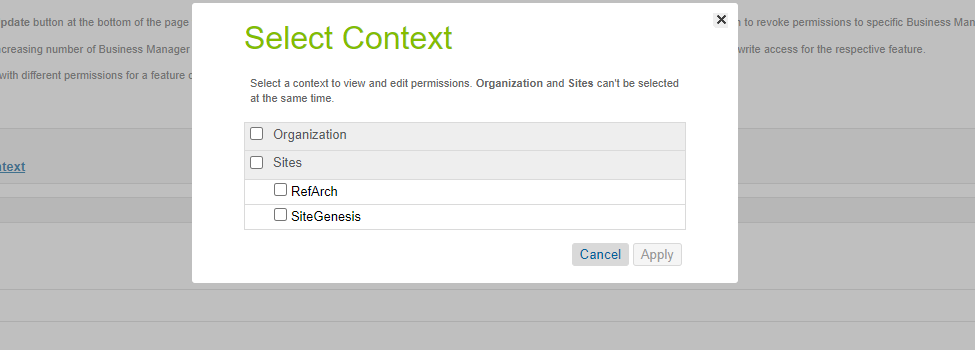
After the import has been completed successfully, all required Checkout.com data will be available globally and for the selected sites.

5. After importing the metadata, for showing the business manager module in the merchant tools section follow the certain steps:

i) Go to the **Administration>Organization>Roles and Permissions.**

**Then click on Adminstrator and go to the business manager module.**

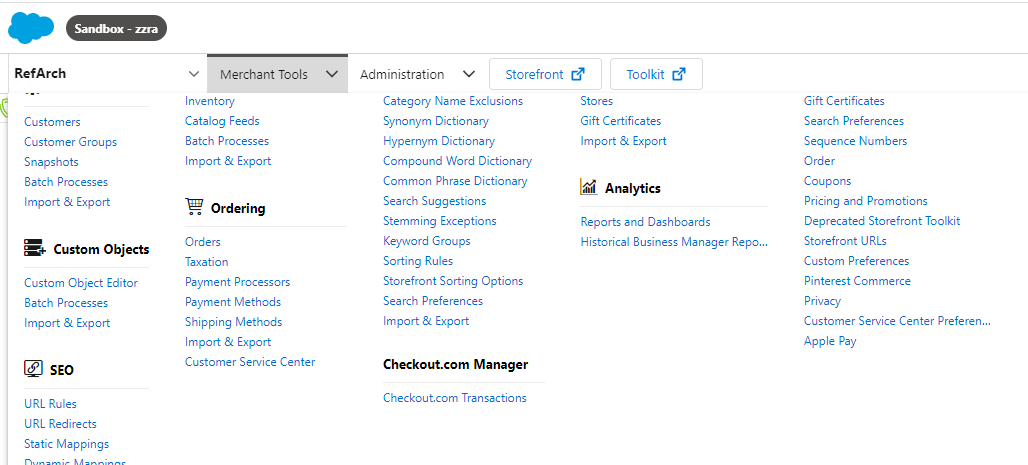
After clicking on business manager module we have to select the context from the Organization and Sites. If want to show the bm module for the whole organization sites then select Organization or else want to show for the specific site then select the particular site name.



ii) After selecting the context click on apple button. Then find the “Checkout.com Manager” Module. And In this click on the checkbox that is present in the right side of Checkout.com Transactions.



iii) And at the last step click on update button. After the following steps we can see the “Checkout.com Manager” module in the merchant tools section.





# External Interfaces

The Checkout.com service endpoints are the external interface that this integration con- nects to. The documentation for the web service requests and responses can be found in

the **charge with full card** section of the Checkout.com API documentation.

# Firewall Requirements

There are no specific firewall requirements.

* 1. **Testing**

In order to test the payment workflow in sandbox mode, Checkout.com provides a set of card numbers allowing to simulate multiple payment cases.

Use any future expiry date (mm/yy) with these test cards.

| **CARD** | **NUMBER** | **CVV** |
| --- | --- | --- |
| Visa | 4242424242424242 | 100 |
| Visa | 4543474002249996 | 956 |
| MasterCard | 5436031030606378 | 257 |
| MasterCard | 2223000010479399 | 299 |
| MasterCard | 5199992312641465 | 010 |
| AMEX | 345678901234564 | 1051 |
| AMEX | 378282246310005 | 1000 |
| Diners Club | 30123456789019 | 257 |
| JCB | 3530111333300000 | 100 |
| Discover | 6011111111111117 | 100 |

1. **Operations, Maintenance**

* 1. **Data Storage**

No custom objects are created by this cartridge.

* 1. **Availability**

The Checkout.com payment gateway is expected to have continuous uptime.

* 1. **Support**

For questions regarding an account, contact your Checkout.com account manager or send an email to [support@checkout.com](mailto:support@checkout.com) . You can also contact us directly by phone:

+44 207 323 388.

1. **User Guide**

* 1. **Roles, Responsibilities**

There are no recurring tasks to be perform in order to run the Checkout.com cartridge integration.

* 1. **Business Manager**

The configuration parameters of the Checkout.com SFRA cartridge are available in:

**Merchant Tools > Site Preferences > Custom Preferences**.

The following configuration screens are available:

1. **CKO [1] Sandbox Keys**

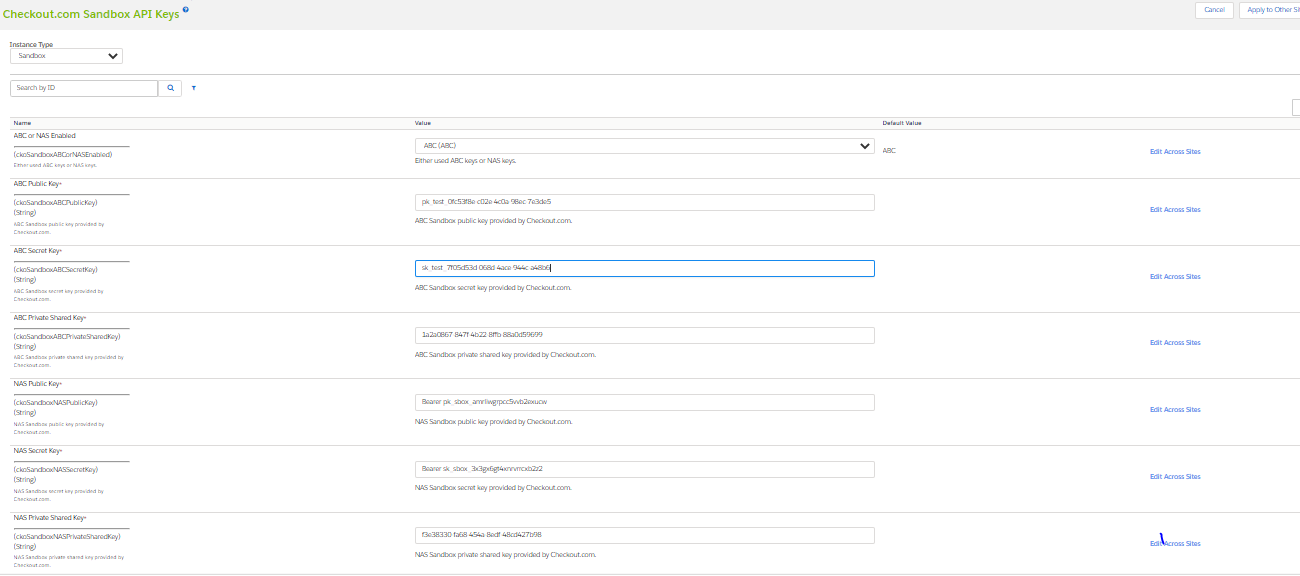
The Checkout.com sandbox API credentials. A private key, a public key and a private shared key

for the ABC and NAS platform and also included a custom preference for the ABC\NAS enabled.

If you want to use the ABC keys then choose ABC from the dropdown, else choose NAS. The default value for the custom preference is ABC.

These credentials allow your online store to connect and communicate with the sandbox/test payment gateway.

They will be available in your Checkout.com account once it’s been opened by your Account Manager. Please see the Contact section for more information on how to contact Checkout.com.



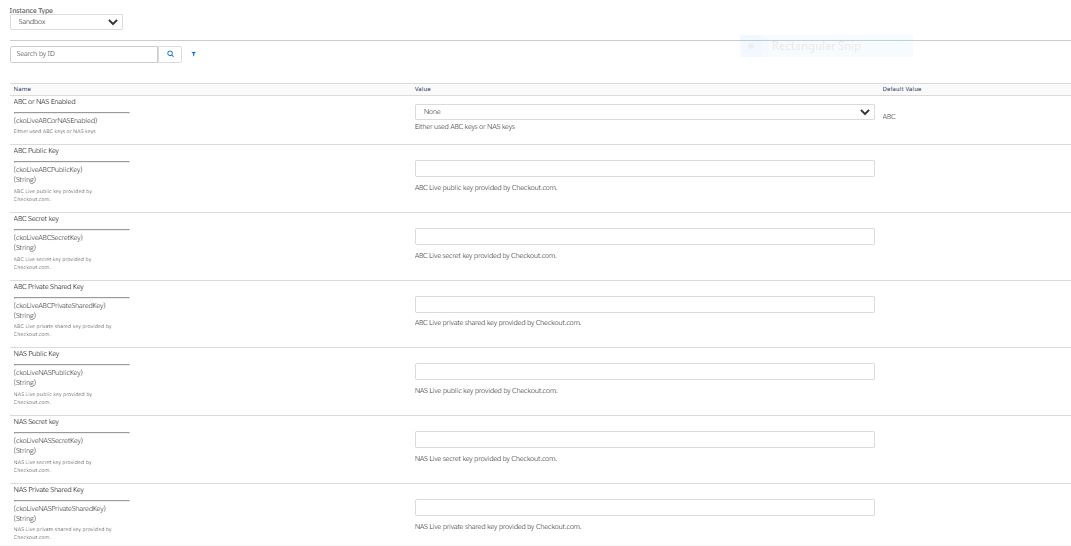
1. **CKO [2] Live Keys**

The Checkout.com live API credentials. A private key, a public key and a private shared key for the ABC and NAS platform and also included a custom preference for the ABC\NAS enabled.

If you want to use the ABC keys then choose ABC from the dropdown, else choose NAS. The default value for the custom preference is ABC.

These credentials allow your online store to connect and communicate with the live/production payment gateway.

They will be available in your Checkout.com account once it’s been opened by your Account Manager. Please see the Contact section for more information on how to contact Checkout.com.



1. **CKO [3] Business Details**

The legal address and billing descriptors for your online store.

1. **CKO [4] Payment Settings**

The Checkout.com gateway global payment settings and card payment settings. The following parameters are available.

* + **Enable**

Enables the Checkout.com cartridge. This preference is used to enable the checkout.com integration on site.

* + **Enable debug mode**

When the debug mode is enabled, the cartridge will log all gateway response in the log files of your website.

* + **3D Secure**

Should 3D Secure be active

* + **Attempt Non 3D Secure**

In case of failure of a 3D secure check, should the gateway try to fallback to a regular transaction without 3D Secure check.

* + **Auto capture**

After authorisation, should the transaction be captured immediately or with a delay.

* + **Auto capture time**

An integer or decimal number specifying how long after the authorisation the capture should happen.

Time provided in minutes. Ex: A provided time of 0.2 minutes corresponds to 12 seconds between the initial card authorisation and the capture.

It’s recommended to avoid setting the auto capture time to 0, in order to avoid collision between the authorisation confirmation and the capture confirmation.

* + **Enable MADA Payment Cards**

Enable payments with mada cards in the middle east.

* + **Checkout MADA Bins**

This preference is used to store the mada cards bin in json format for Appla Pay and Cards.

1. **CKO [5] APM Settings**

The Checkout.com Alternative Payment Methods settings.

This section is used to enable the APM payment methods that you want to add on your store.

1. **CKO [6] Google Pay Settings**

The Checkout.com Google Pay payment method settings.

For google pay setup follow the guide of google pay on checkout.com, the link is :- https://www.checkout.com/docs/payments/payment-methods/wallets/google-pay

The Checkout.com Google Pay payment method settings.

⦁ **Enable Google Pay**

Enable the google pay on your site.

⦁ **Environment**

Should the Google Pay option run in test or production mode.

⦁ **Google Pay merchant ID**

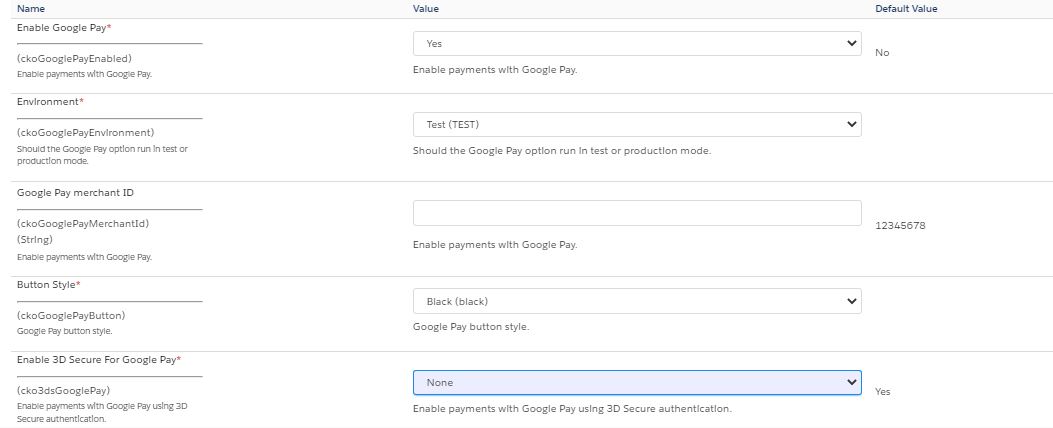
Enable payments with Google Pay.

⦁ **Button Style**

This preference is to decide the google pay button color.

⦁ **Enable 3D Secure For Google Pay**

Enable payments with Google Pay using 3D Secure authentication.



1. **CKO [7] Apple Pay Settings**

For apple pay setup follow the guide of apple pay on checkout.com, the link is :-https://www.checkout.com/docs/payments/payment-methods/wallets/apple-pay

The Checkout.com Apple Pay payment method settings.

⦁ **Enable Apple Pay**

Enable the Apple pay on your site.

⦁ **Environment**

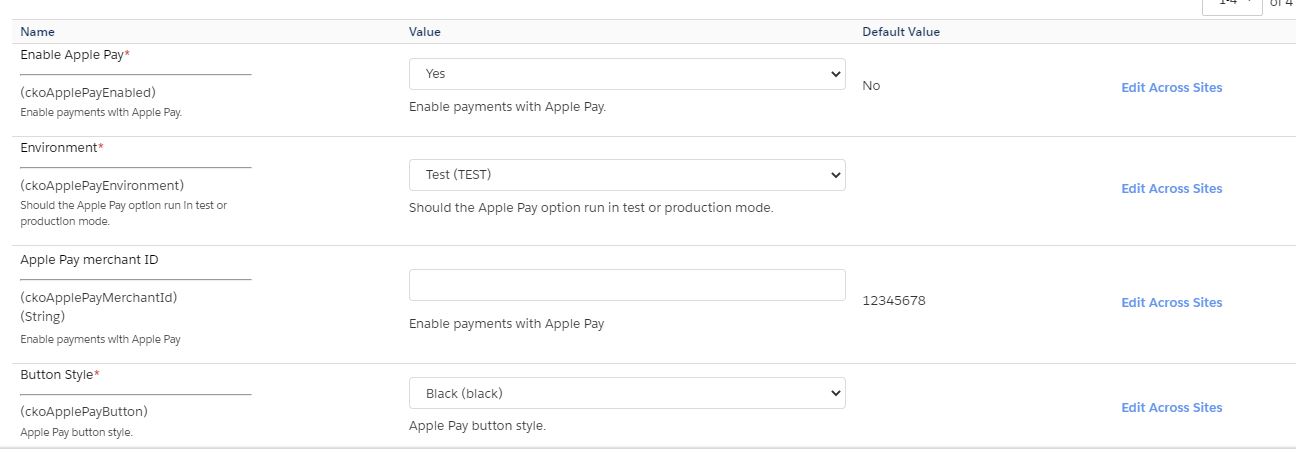
Should the Apple Pay option run in test or production mode.

⦁ **Apple Pay merchant ID**

Enable payments with Apple Pay.

⦁ **Button Style**

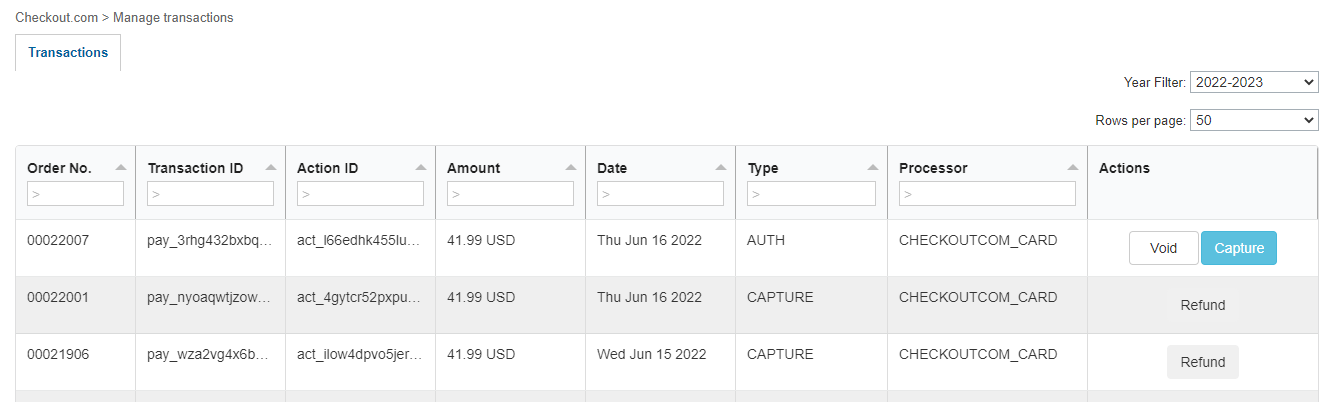
This preference is to decide the apple pay button color.



* 1. **Business Manager Module Functionality**

Once enabled, the Checkout.com integration will add a new functionality to your Sales- force Commerce Cloud store.

The Checkout.com Card, Apple Pay, Google Pay and Alternative Payment methods transactions will show in the “Checkout.com Transactions” Section.



By this module, we have the ability to void, capture and refund the transactions. We can also do the partial refunds on the basis of the payment method that we use. If the payment method provide the partial refunds then we can do that.

Also partial capture functionality of the transactions are provide by the NAS platform.

1. **Known Issues**

No known issues at this time.

1. **Release History**

| **Version** | **DATE** | **Changes** |
| --- | --- | --- |
| 18.1.0 | 19 March 2018 | Initial |
| 19.1.0 | 28 June 2019 | Documentation Update |