



Payment Cartridge Integration

link_checkoutcom / Version 21.1.0



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1. Summary

[Checkout.com](https://www.checkout.com) is a software platform that has integrated 100% of the value chain to create payment infrastructures that truly make a difference. Checkout.com is authorised and regulated by the Financial Conduct Authority under the Electronic Money Regulations 2011 (reference number 900816) to issue electronic money and provide payment services.

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

This implementation guide describes how to integrate the Checkout.com payment cartridge into SCC reference application, Site Genesis. 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 a single folder named **int_checkoutcom**. This integration has been designed using Javascript Controllers and doesn't contain any deprecated 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 for more information.

2. Component Overview

2.1. Functional Overview

The Checkout.com cartridge for Salesforce Commerce Cloud (SCC) 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 SCC checkout process
- Central administration directly in the SCC 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 SCC 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 corresponding transaction is available in the order details in Business Manager.

2.2. 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.

2.3. Limitations, Constraints

1. The Checkout.com cartridge integration doesn't support multi-shipping and subscriptions in SiteGenesis.
2. The Checkout.com credit card form is not compatible with the default Site Genesis credit card form. The default Site Genesis should be disabled when the Checkout.-com credit card form is enabled.

2.4. Compatibility

Available since Demandware 18.3

Compatible with Demandware 16.2 and above

Cartridge developed in SiteGenesis 103.1.9

2.5. 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.

3. Implementation Guide

3.1. Setup

The Checkout.com integration is contained in the storefront cartridge **int_checkout-com**. This single cartridge contains all the payment processor integration functionalities. The integration is compatible with storefronts based on Javascript Controllers, as well as

storefronts based on pipelines.

The **int_checkoutcom** cartridge folder contains the following files:

CONTROLLERS & PROCESSORS

- controllers/CKOMain.js
- controllers/CKOKlarna.js
- controllers/CKOSepa.js
- scripts/payment/processor/CHECKOUTCOM_APM.js
- scripts/payment/processor/CHECKOUTCOM_APPLE_PAY.js
- scripts/payment/processor/CHECKOUTCOM_CARD.js
- scripts/payment/processor/CHECKOUTCOM_GOOGLE_PAY.js

FORMS

- forms/default/alternativePaymentForm.xml
- forms/default/applePayForm.xml
- forms/default/cardPaymentForm.xml
- forms/default/googlePayForm.xml
- forms/default/sepaForm.xml

HELPERS

- scripts/helpers/apmHelper.js
- scripts/helpers/applePayHelper.js
- scripts/helpers/cardHelper.js
- scripts/helpers/ckoHelper.js
- scripts/helpers/googlePayHelper.js

STATIC FILES

- static/default/css/apm.css

- static/default/css/applepay.css
- static/default/css/googlepay.css
- static/default/js/apm.js
- static/default/js/applepay.js
- static/default/js/cardPayment.js
- static/default/js/checkoutcom.js
- static/default/js/cleave.js
- static/default/js/googlepay.js

TEMPLATE FILES

- templates/custom/ajax/output.isml
- templates/custom/common/response/3DSecure.isml
- templates/custom/common/response/failed.isml
- templates/mandate/OrderMandate.isml
- templates/redirects/3DSecure.isml
- templates/redirects/apm.isml
- templates/redirects/failed.isml
- templates/redirects/sepaMandate.isml
- templates/walletPayments/applePayForm.isml
- templates/walletPayments/googlePayForm.isml
- templates/ckoPayments.isml
- templates/sepaform.isml

MISCELLANEOUS

- int_checkoutcom.properties
- scripts/hooks.json
- scripts/config/ckoApmConfig.js

- scripts/config/ckoApmFilterConfig.js
- scripts/config/ckoCurrencyConfig.js

The single **int_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.

3.2. Configuration

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

1. Download the int_checkoutcom cartridge from the LINK Marketplace.
2. Upload int_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**

In your target sites's settings, add **int_checkoutcom** to the cartridge path.

```
int_checkoutcom:sitegenesis_storefront_controllers:sitegenesis_storefront_core
```

```
int_checkoutcom:sitegenesis_storefront_controllers:sitegenesis_storefront_core:plugin_apple_pay;
```

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

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

Site Import & Export

This page allows you to export the current configuration of your organization including all of its sites. To download an archive, just click its file name.

Import

Upload Archive:

☒ Local ☐ Remote

Choose File no file selected

Select	Name ▲	Location	File Size	Last Modified
<input type="radio"/>	SiteGenesis Demo Site			

Export

Provide a name for the export archive, select the units you want to export, and click **Export**. By default, export files are saved in the local export directory and are accessible to the current instance only. If the file needs to be shared by multiple instances (e.g., Production, Sandbox, Development) save it in the global export directory using the respective check box. Fields with a red asterisk (*) are mandatory.

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 settings, 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 Development > 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.

3.3. Custom Code

In order to show the Checkout.com payment option on the billing page, the template / **app_storefront_core/cartridge/templates/default/checkout/billing/payment-methods.isml** has to be modified accordingly.

Add the following code snippet to the paymentmethods.isml template file:

```

<iscomment>

    Checkout.com – Integration example
    Add this code to your paymentmethods.isml file
    -----

</iscomment>
<isif condition="${dw.system.Site.getCurrent().getCustomPreferenceValue("ckoEnabled"))}">

    <isinclude template="ckoPayments" />

<iselse>
    <iscomment>
        Site Genesis – Default Credit card block
        Add the default Site Genesis credit card form code here.
        -----
    ---
    </iscomment>
</isif>

```

The code above will display the Checkout.com credit card form if enabled in the custom preferences, and display the default Site Genesis credit card form if not.

If your site is also using the default Site Genesis credit card form, please place the code of the form (found in the core paymentmethods.isml template file) after the **<iselse>** block as shown above.

Please note that the Checkout.com credit card form is not compatible with the default Site Genesis credit card form. Please disable the default credit card form if using the Checkout.com credit card form and vice versa.

3.4. External Interfaces

The Checkout.com service endpoints are the external interface that this integration connects 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](#).

3.5. Firewall Requirements

There are no specific firewall requirements.

3.6. 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

4. Operations, Maintenance

4.1. Data Storage

No custom objects are created by this cartridge.

4.2. Availability

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

4.3. Support

For questions regarding an account, contact your Checkout.com account manager or send an email to support@checkout.com . You can also contact us directly by phone: +44 207 323 388.

5. User Guide

5.1. Roles, Responsibilities

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

5.2. Business Manager

The configuration parameters of the Checkout.com cartridge are available in Merchant Tools > Site Preferences > Custom Preferences.

You will find 2 groups of configuration screens. **Checkout.com Account** and **Checkout.com Global**.

1. Checkout.com Sandbox and Live API account keys

Instance Type
Sandbox

Search by IDs...

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Name	Value	Default Value
Public key*	<input type="text" value="pk_test_4789efbe-aadc-43f9-b2f8-5f6e65bbec20"/> Public key provided by Checkout.com	Edit Across Sites
Private key*	<input type="text" value="sk_test_d6f8e865-3ba2-4ec7-91cc-ae6798e004aa"/> Private key provided by Checkout.com	Edit Across Sites
Private shared key*	<input type="text" value="86585c4d-efad-4941-809e-1570626b0bfd"/> Private shared key provided by Checkout.com	Edit Across Sites

On this screen, you will have to provide a **Public Key**, a **Private Key** and a **Private Shared Key**. These elements are necessary, no matter if you are in production or in test mode. 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.

2. Checkout.com Global Settings

This screen contains the other configuration parameters for your Checkout.com payment integration. Not all parameters on this screen are compulsory and should be double checked:

Name	Value	Default Value
Enable*	<input type="button" value="Yes"/> If set to yes, the Checkout.com payment form will be enabled and the default credit card form disabled.	Yes Edit Across Sites
Mode*	<input type="button" value="Sandbox (sandbox)"/> Should the Checkout.com payment method should run in sandbox or live mode.	Edit Across Sites
Billing Descriptor Line1	<input type="text"/> Your SFCC Shop Billing Descriptor For Invoice (Max-25 characters)	Sfcc Shop Edit Across Sites
Billing Descriptor Line2	<input type="text"/> Your SFCC Shop Billing Descriptor For Invoice (Max-30 characters)	Sfcc City Edit Across Sites
Business Name*	<input type="text" value="Test Shop"/> Your SFCC Shop Name (Max-20 characters)	Sfcc Shop Edit Across Sites
Business AddressLine1*	<input type="text" value="248"/> Your SFCC Shop Business AddressLine1 (Max-20 characters)	Sfcc Shop Edit Across Sites
Business AddressLine2	<input type="text" value="ilkeston road"/> Your SFCC Shop Business AddressLine1 (Max-20 characters)	Sfcc Shop Edit Across Sites
Business City*	<input type="text" value="nottingham"/> Your SFCC Shop Business City (Max-20 characters)	Sfcc Shop Edit Across Sites
Business Country*	<input type="text" value="United Kingdom"/> Your SFCC Shop Business Country (Max-20 characters)	Sfcc Shop Edit Across Sites
3D Secure*	<input type="button" value="Yes"/> If set to yes, 3D Secure verification will be enabled for all transactions.	No Edit Across Sites

- **Enable**

Enables the Checkout.com credit card form. This credit card form is not compatible with the default Site Genesis credit card form. Please disable the default Site Genesis credit card form when enabling the Checkout.com credit card form.

- **Storefront core folder**

The name of the storefront core folder name. Used by the cartridge to determine a path for several assets included in the folder.

- **Storefront controller folder**

The name of the storefront controller folder name. Used by the cartridge to determine a path for several assets included in the folder.

- **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**

Should the transaction be captured immediately.

- **Auto capture time**

An integer or decimal number specifying how long after the authorization the transaction should be captured.

3. Checkout.com APM Settings

This screen contains app configuration parameters for your Checkout.com payment integration. All parameters on this screen are compulsory and should be double checked:

Example:

- **Enable iDeal**

Enables the Checkout.com iDeal alternative payment. iDeal pay form is not visible in our default payment form and must be enabled here. Please Note, this have to be set to either YES/NO.

Name	Value	Default Value	
Enable IDEAL PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Ideal Pay			
Enable BOLETO BANCARIO PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Boleto Bancario Pay			
Enable BANCANTACT PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Bancantact Pay			
Enable BENEFIT PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Benefit Pay			
Enable GIRO PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Giro Pay			
Enable EPS PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Eps Pay			
Enable SOFORT PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Sofort Pay			
Enable KNET PAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Knet Pay			
Enable QPAY*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Q Pay			

4. Checkout.com Google Pay / Apple Pay Settings

This screen contains app configuration parameters for your Checkout.com payment integration for Google / Apple Pay. All parameters on this screen are not compulsory and should be double checked:

Instance Type

Sandbox

Search by IDs...

Q

T

1-4

of 4

Name	Value	Default Value	
Enable Apple Pay*	<input type="text" value="Yes"/>	No	Edit Across Sites
Enable to accept payments from customers with Apple Pay			
Environment*	<input type="text" value="Test (TEST)"/>		Edit Across Sites
Should the Apple Pay option run in test or production mode.			
Apple Pay merchant ID	<input type="text" value="12345678"/>	12345678	Edit Across Sites
Enable to accept payments from customers with Apple Pay			
Button Style*	<input type="text" value="Black (black)"/>		Edit Across Sites
The Apple Pay option button style.			

Google Pay Settings [?](#) [Cancel](#) [Apply to Other Sites](#) [Save](#)

Instance Type
Sandbox

Search by IDs... [Q](#) [T](#)

1-4 of 4

Name	Value	Default Value	
Enable Google Pay*	No	No	Edit Across Sites
Enable to accept payments from customers with Google Pay			
Environment*	None		Edit Across Sites
Should the Google Pay option run in test or production mode.			
Google Pay merchant ID		12345678	Edit Across Sites
Enable to accept payments from customers with Google Pay			
Button Style*	None		Edit Across Sites
The Google Pay option button style.			

Example:

- **Enable Apple Pay / Enable Google Pay**

Enables the Checkout.com Apple and Apple Pay alternative payment. Apple and Google pay form is not visible in our default payment form and must be enabled here. Please Note, this have to be set to either YES/NO.

- **Environment**

The Environment must be set to Test or Production. In Test Environment payments will be sent our sandbox environment and not live. Please Note, this have to be set to either Test/Production.

- **Apple Pay Merchant ID**

Tbc...

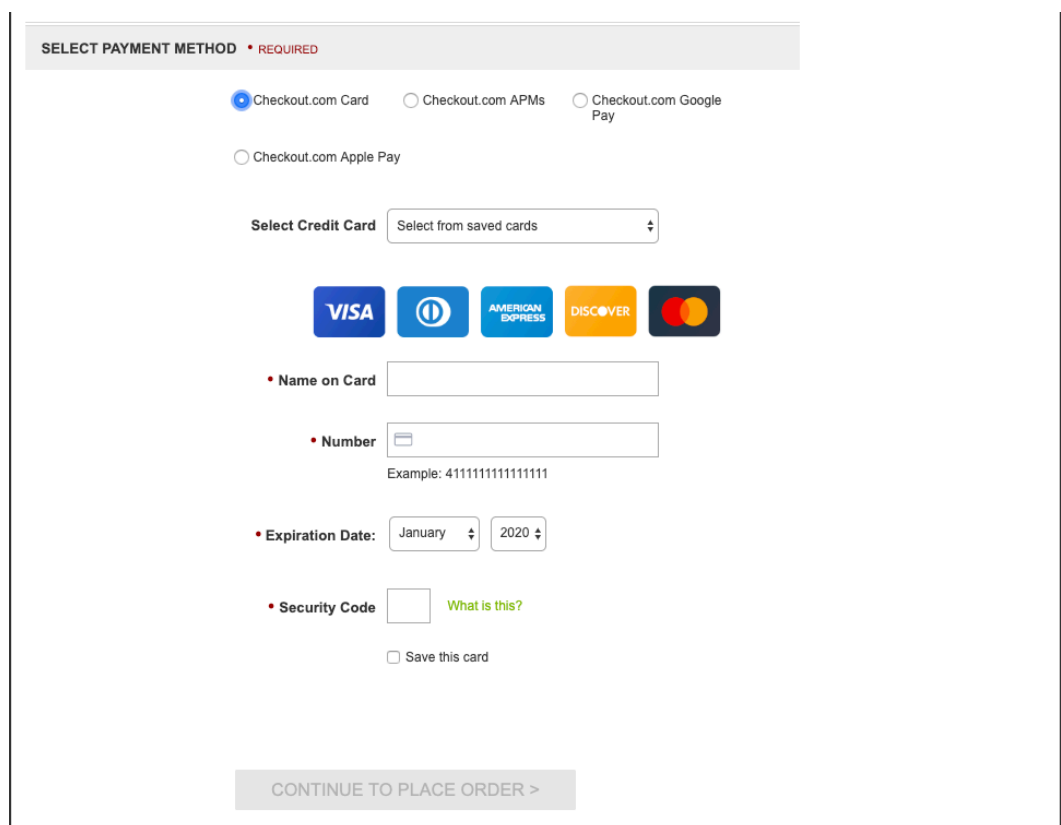
- **Button Style**

This field enable Marchant to customise the Apple Pay/Google Pay button that is displayed in the store from. Button Style must be set to Black or White.

5.3. Storefront Functionality

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

The Checkout.com Card, Apple, Google and Alternative Payment methods will show as an option on the billing page.



The screenshot displays a payment method selection interface. At the top, a header reads "SELECT PAYMENT METHOD • REQUIRED". Below this, four radio button options are presented: "Checkout.com Card" (selected), "Checkout.com APMs", "Checkout.com Google Pay", and "Checkout.com Apple Pay". Under the "Checkout.com Card" option, there is a "Select Credit Card" label and a dropdown menu currently showing "Select from saved cards". Below the dropdown are five credit card logos: VISA, American Express, DISCOVER, and Mastercard. The form then includes several required fields: "Name on Card", "Number" (with a card icon and an example number "4111111111111111"), "Expiration Date" (with month and year dropdowns), and "Security Code" (with a "What is this?" link). A checkbox for "Save this card" is located below the security code field. At the bottom of the form is a grey button labeled "CONTINUE TO PLACE ORDER >".

After having choosing and provided card, apple, google and alternative payment details, the shopper can proceed to the order review page.

Clicking on the “Place Order” button will send a charge request to the Checkout.com payment processing server, without having to redirect the shopper.

In case of successful payment, the shopper will be redirected to the order confirmation page.

Thank you for your order.

If you have questions about your order, we're happy to take your call (800-555-0199) Monday - Friday, 8AM - 8PM

 Order Number: **00006101**

Order Placed: **19 Mar 2018**

PAYMENT METHOD

Checkout.com Credit Card

DDFV

Visa

*****4242

Amount: £196.79

PAYMENT TOTAL

Subtotal **£188.80**

Shipping Ground **£7.99**

Order Total: £196.79

6. Known Issues

No known issues at this time.

7. Release History

Version	Date	Changes
18.1.0	19 March 2018	Initial release
19.1.0	28 June 2019	Documentation update