

Stripe Integration

Version 20.2.0



Stripe Integration

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1. Summary

The Stripe LINK Cartridge facilitates integration between a Commerce Cloud Storefront and Stripe Payment Services; including Stripe Elements, Sources, Webhooks, and Alternate Payment methods. Usage of Sources via Stripe.js, ability to create charges, and optional integration with Stripe's Relay service for embedded eCommerce solutions on social channels.

Contracting with Stripe is required for live, production deployment of the cartridge. Though the cartridge can be installed and tested using a freely available Stripe test account at <https://dashboard.stripe.com>. Please contact your Stripe Implementation Consultant for help with taking your Stripe account live.

The integration encompasses the deployment of several cartridges and modification of storefront code

2. Component Overview

Functional Overview

Stripe Elements and Sources

Stripe Elements modifies the default Commerce Cloud Credit Card collection and processing by using Stripe.js, a JavaScript library, to securely tokenize credit card data. Payments are then processed using the tokenized data, not the raw credit card information.

During checkout, the cartridge will create a source for any new cards or alternate payment methods entered by customers. This data is transformed into a Stripe Source. At the point of purchase, the stored, tokenized data is used to generate a Stripe Charge. Registered Customers can manage (add, delete) reusable payment methods in their storefront-connected Stripe Account for re-use in subsequent storefront purchases.

Use Cases

Stripe.js Sources

When customers enter credit card or other payment information on the storefront, the information is tokenized via Stripe.js in a client (browser)-to-Stripe interactions. Unmasked credit card data is therefore never sent to the Commerce Cloud servers.

Stripe Charges

System will create a Stripe Charge (authorize or capture, based on Business Manager configuration) from a successfully created and submitted Basket. All Stripe Charges are created against a Stripe payment Source.

AVS Auto-Fail Transactions

Site administrators can select a variety of AVS statuses for which an Order should be auto-failed. If the Stripe Charge returns any of the selected statuses for either `address_line1_check` or `address_zip_check` the Order will be auto-failed and the Stripe Charge reversed. Note that these settings can also be managed on the Stripe Dashboard.

Supported payment methods:

- *ACH Credit Transfer*
- *Alipay*
- *Apple Pay*
- *Bancontact*
- *Cards (Visa, Mastercard, American Express, Discover, Diners Club, JCB)*
- *EPS*
- *Giropay*
- *Google Pay*
- *iDeal*
- *Przelewy24*
- *SEPA Direct Debit*
- *Sofort*

Limitations, Constraints

Stripe offers a number of standard services that are not supported by the cartridge. These include support for Subscriptions, Plans, and Coupons.

The included RELAY OCAPI configurations are included as examples only. A RELAY implementation will require additional configuration and testing along with the Stripe team.

Compatibility

Available since Commerce Cloud Platform Release 16.8, Site Genesis 103.0.0

The cartridge is available for installations on storefronts that support both Controller and SFRA SiteGenesis implemenations.

Privacy, Payment

No unmasked credit card data is stored within Commerce Cloud. The cartridge tokenizes all payment data via direct client-to-Stripe communications and obscures any sensitive credit card data before it arrives on the Commerce Cloud servers. Similarly, all credit card data that is retrieved by Commerce Cloud from the Stripe servers is also masked and/or tokenized.

3. Implementation Guide

Setup of Business Manager

The Stripe LINK Cartridge contains several cartridges that are required for full functionality. Additionally, *Controller and SFRA support is broken out into two separate cartridges, thereby facilitating the installation and use of one or the other models.*

Import all three cartridges into UX studio and associate them with a Server Connection.

Site Cartridge Assignment

1. Navigate to Administration > Sites > Manage Sites
2. Click on the Site Name for the Storefront Site that will add Stripe Functionality
3. Select the "Settings" tab
4. For SFRA "app_stripe_sfra:int_stripe_sfra:int_stripe_core" needs to be added to the cartridge path
5. Repeat steps 2 – 4 for each Storefront Site where Stripe will be implemented

Business Manager Cartridge Assignment

1. Navigate to Administration > Sites > Manage Sites - Click on the Business Manager Site > "Manage the Business Manager site." Link
2. Add "int_stripe" to the Cartridges: path

Metadata import

1. Navigate to Administration > Site Development > Site Import & Export
2. Zip the stripe_site_template folder and import it.
3. Navigate to Merchant Tools > Ordering > Import & Export and import stripe_payment_methods.xml
4. Repeat steps 3 for each Storefront Site where Stripe will be implemented

Add New Payment Processors

There are two payment processors used in the Stripe cartridge. "STRIPE_CREDIT" is used for credit card handling while "STRIPE" is used for the asynchronous payment model (Bank transfers, GiroPay, etc).

If using Stripe credit cards, Navigate to Merchant Tools > Ordering > Payment Processors and click the "New" button. In the new window set the ID attribute to value "STRIPE_CREDIT" and click "Apply".

If using APM methods, again, click the "New" button. In the new window set the ID attribute to value "STRIPE_APM" and click "Apply". This payment method is for the non-credit card (APM methods)

Update Payment Methods

Navigate to Merchant Tools > Ordering > Payment Methods, click on the CREDIT_CARD payment method and select the STRIPE_CREDIT payment processor in dropdown under the CREDIT_CARD Details section

If using APM payment methods and/or the Payment Request Button then enable the desired payment methods as well: The STRIPE_APM_METHODS will provide the ability to include all of the supported Stripe methods. See <https://stripe.com/payments/payment-methods-guide>

To utilize the Stripe Payment Request Button, enable the "STRIPE_PAYMENT_REQUEST_BTN" payment method. See <https://stripe.com/docs/stripe-js/elements/payment-request-button>

Configuration

Update the Merchant Tools > Site Preferences > Custom Site Preferences > Stripe Configurations with Site specific values.

1. Stripe Secret API Key a. Can be obtained through the Stripe Dashboard (<https://dashboard.stripe.com/account/apikeys>)
2. Stripe Publishable API Key a. Find along with Stripe Secret API Key
3. Is this SFRA installation. Set to yes if the current site is using the Storefront Reference Architecture (SFRA)
4. Capture Funds on Stripe Charge a. Default value: true (Yes) b. Set to false (No) to instead Authorize Stripe Charges
5. Stripe Card Element CSS Style a. Enter the CSS styling that the Card element button should inherit to fit within the overall storefront styles. Style Configuration for Stripe Elements e.g, `{"base": {"fontFamily": "Arial, sans-serif", "fontSize": "14px", "color": "#C1C7CD"}, "invalid": {"color": "red" } }`
6. Stripe API URL - <https://js.stripe.com/v3/>
7. Stripe Payment Request Button Style a. For the payment request button, select the limited CSS styling that the button should display with. See <https://stripe.com/docs/stripe-js/elements/payment-requestbutton#styling-the-element>
8. ApplePay Verification String i. Enter the Apple verification string provided from the Stripe dashboard. ii. This is a one time enablement. The Stripe console will proxy the Apple Pay for Web verification String upon setup. This will need to be configured into the sandbox if the Payment Request Button will be used as a form of payment on the storefront.
9. Country Code (Stripe Payment Request Button) - Country Code e.g, US. This will be the default country code for the Payment Request Button. Customization may be needed on a multi country single site in order to dynamically pass the country code rather than the site preference (if needed). <https://stripe.com/docs/stripe-js/elements/payment-requestbutton#create-payment-request-instance>
10. Stripe Webhook Signing Secret i. Enter the webhook signing secret provided by the stripe dashboard. Stripe will sign webhook calls and pass a validation to SFCC. SFCC will validate the contents of the message via this key.
11. Stripe allowed Webhook Statuses i. Configure the allowed statuses for Webhooks to respond to (this need not be changed unless additional customizations are being made).

12. Allowed APM Methods a. Update this field, per site locale, to indicate which alternate payment methods are enabled for each locale. Enumeration of allowed Payment Methods from the Stripe API. See more here: <https://stripe.com/docs/sources> { "default": ["p24", "eps", "sepa_debit", "ideal", "sofort", "bitcoin", "alipay", "bancontact", "giropay"], "en_UK": ["p24", "eps"], "de_AT": ["sofort", "ideal"] }

Stripe Dashboard

In the Stripe Dashboard (<https://dashboard.stripe.com/test/webhooks>) enable webhooks, point it to `stripe-webhook` controller and subscribe to these events:

- review.opened
- review.closed
- charge.succeeded
- charge.failed
- source.canceled
- source.failed
- source.chargeable

TEST DATA

Edit webhook endpoint

Endpoint URL

`https://stripe01-tech-prtnr-na05-dw.demandware.net/on/demandware.store/Sites-SiteG`

Events to send

Select events... Clear

- charge.su
- Charge 13 events
- charge.succeeded**
- charge.failed
- source.canceled

7 events

Cancel Edit endpoint

TEST DATA

https://stripe01-tech-prtnr-na05-dw.demandware.net/on/demandware.stor... [Send test webhook...](#) [Disable...](#) [Delete...](#)

Status: **Enabled** Mode: Test

Webhook details [Update details...](#)

URL: https://stripe01-tech-prtnr-na05-dw.demandware.net/on/demandware.store/Sites-SiteGenesis-Site/default/Stripe-WebHook

Event types:

- review.opened
- review.closed
- charge.succeeded
- charge.failed
- source.canceled
- source.failed
- source.chargeable

Signing secret [Learn more about webhook signing](#)

[Click to reveal](#) [Roll secret...](#)

Then copy the signing secret to the 'Stripe Webhook Signing Secret' preference.

Make sure that this value is set to your Stripe account country code:

Country Code (Stripe Payment Request Button)

For ApplePay to work, the file RedirectURL.js must be changed with this code:

```
if (URLRedirectMgr.getRedirectOrigin() === '/.well-known/apple-developer-merchantid-domain-association') { // Intercept the incoming path request
  res.render('stripe/util/apple');
  return next();
}
```

```
link_stripe > cartridges > app_stripe_sfra > cartridge > controllers > JS RedirectURL.js > ...
5 server.extend(page);
6
7 server.replace('Start', function (req, res, next) {
8   var URLRedirectMgr = require('dw/web/URLRedirectMgr');
9
10   // Stripe changes BEGIN
11   if (URLRedirectMgr.getRedirectOrigin() === '/.well-known/apple-developer-merchantid-domain-association') { // Intercept the incoming path request
12     res.render('stripe/util/apple');
13     return next();
14   }
15   // Stripe changes END
16
17   var redirect = URLRedirectMgr.redirect;
18   var location = redirect ? redirect.location : null;
19   var redirectStatus = redirect ? redirect.getStatus() : null;
20
21   if (!location) {
22     res.setStatusCode(404);
23     res.render('error/notFound');
24   } else {
25     if (redirectStatus) {
26       res.setRedirectStatus(redirectStatus);
27     }
28     res.redirect(location);
29   }
30
31   return next();
32 });
```

Then go to https://dashboard.stripe.com/account/apple_pay and click on 'Add new domain' button. Enter the domain and download the verification file:

1 Provide the domain where the file will be hosted

Input the top-level domain (e.g. stripe.com) or sub-domain (e.g. shop.stripe.com) that you wish to enable Apple Pay for.

2 ↓ Download verification file...

Copy the contents of the file to 'ApplePay Verification String' custom preference:



Then click on the 'Add' button:

3 Host the verification file

You'll need to host the verification file you downloaded above at your domain in the following location:

`https://example.com/.well-known/apple-developer-merchantid-domain-association`

CancelAdd

Custom Code

The base LINK Cartridge code contains support for all credit cards supported by Stripe. Note that the list of allowed cards on the storefront is still limited by the Credit/Debit Cards list in Business Manager (Merchant Tools > Ordering > Payment Methods > Credit/Debit Cards).

Make the following updates to the Storefront Code. Examples provided are based on SFRA version 4.4. Below are the customizations made to SFRA code.

There are a lot of controller endpoints that are appends instead of replaces. Those will not get covered as they should work without doing anything.

Controllers

Controller updates are only required for replaced endpoints as you may have already replaced that endpoint in your integration. Simply use the changes that are made to the base cartridge and add them to your already replaced controller. If you haven't extended/replaced these endpoints you don't need to do anything.

Controller: CheckoutServices.js

app_stripe_sfra/cartridge/controllers/CheckoutServices.js

Remove the payment instrument validation in the 'SubmitPayment' endpoint

```
161 // if there is no selected payment option and balance is greater than zero
162 if (!paymentMethodID && currentBasket.totalGrossPrice.value > 0) {
163     var noPaymentMethod = {};
164
165     noPaymentMethod[billingData.paymentMethod.htmlName] =
166         Resource.msg('error.no.selected.payment.method', 'payment', null);
167
168     delete billingData.paymentInformation;
169
170     res.json({
171         form: billingForm,
172         fieldErrors: [noPaymentMethod],
173         serverErrors: [],
174         error: true
175     });
176     return;
177 }
178
179 // Stripe changes BEGIN
180 // // Validate payment instrument
181 // var creditCardPaymentMethod = PaymentMgr.getPaymentMethod(PaymentInstrument.METHOD_CREDIT_CARD);
182 // var paymentCard = PaymentMgr.getPaymentCard(billingData.paymentInformation.cardType.value);
183
184 // var applicablePaymentCards = creditCardPaymentMethod.getApplicablePaymentCards(
185 //     req.currentCustomer.raw,
186 //     req.geolocation.countryCode,
187 //     null
188 // );
189
190 // if (!applicablePaymentCards.contains(paymentCard)) {
191 //     // Invalid Payment Instrument
192 //     var invalidPaymentMethod = Resource.msg('error.payment.not.valid', 'checkout', null);
193 //     delete billingData.paymentInformation;
194 //     res.json({
195 //         form: billingForm,
196 //         fieldErrors: [],
197 //         serverErrors: [invalidPaymentMethod],
198 //         error: true
199 //     });
200 //     return;
201 // }
202 // Stripe changes END
203
```

Update 'PlaceOrder' as below:

Replace the order creation block:

```

    // Re-calculate the payments.
    var calculatedPaymentTransactionTotal =
COHelpers.calculatePaymentTransaction(currentBasket);
    if (calculatedPaymentTransactionTotal.error) {
        res.json({
            error: true,
            errorMessage: Resource.msg('error.technical', 'checkout', null)
        });
        return next();
    }
}

```

With this:

```

const stripeCheckoutHelper = require('int_stripe_core').getCheckoutHelper();
var order = stripeCheckoutHelper.createOrder(currentBasket);

```

```

395 // Re-calculate the payments.
396 var calculatedPaymentTransactionTotal = COHelpers.calculatePaymentTransaction(currentBasket);
397 if (calculatedPaymentTransactionTotal.error) {
398     res.json({
399         error: true,
400         errorMessage: Resource.msg('error.technical', 'checkout', null)
401     });
402     return next();
403 }
404
405 // Stripe changes BEGIN
406 const stripeCheckoutHelper = require('int_stripe_core').getCheckoutHelper();
407 var order = stripeCheckoutHelper.createOrder(currentBasket);
408 // Stripe changes END
409
410 if (!order) {
411     res.json({
412         error: true,
413         errorMessage: Resource.msg('error.technical', 'checkout', null)
414     });
415     return next();
416 }

```

Replace the order placement down below too:

```

var placeOrderResult = COHelpers.placeOrder(order, fraudDetectionStatus);

```

Replace everything after this line with:

```

var isAPMOrder = stripeCheckoutHelper.isAPMOrder(order);
if (!isAPMOrder) {
    var stripePaymentInstrument =
stripeCheckoutHelper.getStripePaymentInstrument(order);

    if (stripePaymentInstrument &&
order.custom.stripeIsPaymentIntentInReview) {
        res.json({
            error: false,
            orderID: order.orderNo,
            orderToken: order.orderToken,
            continueUrl: URLUtils.url('Order-Confirm').toString()
        });

        return next();
    }
}

```

```

    }
    // Places the order
    var placeOrderResult = COHelpers.placeOrder(order,
fraudDetectionStatus);
    if (placeOrderResult.error) {
        stripeCheckoutHelper.refundCharge(order);
        res.json({
            error: true,
            errorMessage: Resource.msg('error.technical', 'checkout', null)
        });
        return next();
    }

    COHelpers.sendConfirmationEmail(order, req.locale.id);

    // Reset usingMultiShip after successful order placement
    req.session.privacyCache.set('usingMultiShipping', false);

    // TODO: Exposing a direct route to an Order, without at least encoding
the orderID
    // is a serious PII violation. It enables looking up every customers
orders, one at a
    // time.
    res.json({
        error: false,
        orderID: order.orderNo,
        orderToken: order.orderToken,
        continueUrl: URLUtils.url('Order-Confirm').toString()
    });

    return next();
}
res.json({
    error: false,
    orderID: order.orderNo,
    orderToken: order.orderToken,
    continueUrl: URLUtils.url('Order-Confirm').toString()
});

return next();

```

```

428 var fraudDetectionStatus = hooksHelper('app.fraud.detection', 'fraudDetection', currentBasket, require('*/cartridge/scripts/hooks/fraudDetection').fraudDetection);
429 if (fraudDetectionStatus.status === 'fail') {
430   Transaction.wrap(function () { OrderMgr.failOrder(order); });
431
432   // fraud detection failed
433   req.session.privacyCache.set('fraudDetectionStatus', true);
434
435   res.json({
436     error: true,
437     cartError: true,
438     redirectUrl: URLUtils.url('Error-ErrorCode', 'err', fraudDetectionStatus.errorCode).toString(),
439     errorMessage: Resource.msg('error.technical', 'checkout', null)
440   });
441
442   return next();
443 }
444
445 // Stripe changes BEGIM
446 var isAPMOrder = stripeCheckoutHelper.isAPMOrder(order);
447 if (!isAPMOrder) {
448   var stripePaymentInstrument = stripeCheckoutHelper.getStripePaymentInstrument(order);
449
450   if (stripePaymentInstrument && order.custom.stripeIsPaymentIntentInReview) {
451     res.json({
452       error: false,
453       orderId: order.orderNo,
454       orderToken: order.orderToken,
455       continueUrl: URLUtils.url('Order-Confirm').toString()
456     });
457
458     return next();
459   }
460
461   // Places the order
462   var placeOrderResult = COHelpers.placeOrder(order, fraudDetectionStatus);
463   if (placeOrderResult.error) {
464     stripeCheckoutHelper.refundCharge(order);
465     res.json({
466       error: true,
467       errorMessage: Resource.msg('error.technical', 'checkout', null)
468     });
469     return next();
470   }
471
472   COHelpers.sendConfirmationEmail(order, req.locale.id);
473
474   // Reset usingMultiship after successful Order placement
475   req.session.privacyCache.set('usingMultishipping', false);
476
477   // TODO: Exposing a direct route to an Order, without at least encoding the orderId
478   // is a serious PII violation. It enables looking up every customers orders, one at a
479   // time.
480   res.json({
481     error: false,
482     orderId: order.orderNo,
483     orderToken: order.orderToken,
484     continueUrl: URLUtils.url('Order-Confirm').toString()
485   });
486
487   return next();
488 }

```

Controller: PaymentInstruments.js

app_stripe_sfra/cartridge/controllers/PaymentInstruments.js

Replace the DeletePayment endpoint with this code

```

server.replace('DeletePayment', function (req, res, next) {
  var stripeHelper = require('int_stripe_core').getStripeHelper();
  var wallet = stripeHelper.getStripeWallet(customer);
  var UUID = req.querystring.UUID;
  wallet.removePaymentInstrument({ custom: { stripeId: UUID } });

  res.json({ UUID: UUID });
  next();
});

```

```

15 server.replace('DeletePayment', function (req, res, next) {
16   var stripeHelper = require('int_stripe_core').getStripeHelper();
17   var wallet = stripeHelper.getStripeWallet(customer);
18   var UUID = req.querystring.UUID;
19   wallet.removePaymentInstrument({ custom: { stripeId: UUID } });
20
21   res.json({ UUID: UUID });
22   next();
23 });

```

Controller: RedirectURL.js

app_stripe_sfra/cartridge/controllers/RedirectURL.js

In the function start add the following code:

```
if (URLRedirectMgr.getRedirectOrigin() === '/.well-known/apple-developer-merchantid-domain-association') { // Intercept the incoming path request
  res.render('stripe/util/apple');
  return next();
}
```

```
7 server.replace('Start', function (req, res, next) {
8   var URLRedirectMgr = require('dw/web/URLRedirectMgr');
9
10  // Stripe changes BEGIN
11  if (URLRedirectMgr.getRedirectOrigin() === '/.well-known/apple-developer-merchantid-domain-association') { // Intercept the incoming path request
12    res.render('stripe/util/apple');
13    return next();
14  }
15  // Stripe changes END
16
17  var redirect = URLRedirectMgr.redirect;
18  var location = redirect ? redirect.location : null;
19  var redirectStatus = redirect ? redirect.getStatus() : null;
20
21  if (!location) {
22    res.setStatusCode(404);
23    res.render('error/notFound');
24  } else {
25    if (redirectStatus) {
26      res.setRedirectStatus(redirectStatus);
27    }
28    res.redirect(location);
29  }
30
31  return next();
32 });
```

External Interfaces

Stripe functionality relies heavily on external calls to the Stripe services. All external interfaces use the Service Framework to communicate with the Stripe API.

Stripe accounts are free to create and use. Most communications with Stripe services are logged and easily accessible in the Stripe Dashboard (<http://dashboard.stripe.com>). It is highly encouraged to use the Stripe Dashboard to monitor and test your integration.

The main configuration for integration of the Stripe services can be found under **Administration > Operations > Services**

There is a different service for each external call

- stripe.http.addCard
- stripe.http.authorizePayment
- stripe.http.createCharge
- stripe.http.createCustomer
- stripe.http.deleteCard
- stripe.http.fetchCustomerCards
- stripe.http.fetchCustomerSources
- stripe.http.refundCharge
- stripe.http.retrieveCustomer
- stripe.http.service
- stripe.http.updateCard

All of these services use the same profile and the same credentials. The only thing that may be different is whether or not the communication log is enabled and the log name prefix. Here is the configuration of some of the services:

stripe.http.addCard[?]

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="stripe.http.addCard"/>
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="Stripe"/>
Communication Log Enabled:	<input checked="" type="checkbox"/>
Force PRD Behavior in Non-PRD Environments:	<input type="checkbox"/>
Profile:	<input type="text" value="StripeProfile"/>
Credentials:	<input type="text" value="StripeCredentials"/>

stripe.http.authorizePayment[?]

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="stripe.http.authorizePayment"/>
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="Stripe"/>
Communication Log Enabled:	<input checked="" type="checkbox"/>
Force PRD Behavior in Non-PRD Environments:	<input type="checkbox"/>
Profile:	<input type="text" value="StripeProfile"/>
Credentials:	<input type="text" value="StripeCredentials"/>

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="stripe.http.createCharge"/>
Type:	<input type="text" value="HTTP"/>
Enabled:	<input checked="" type="checkbox"/>
Service Mode:	<input type="text" value="Live"/>
Log Name Prefix:	<input type="text"/>
Communication Log Enabled:	<input type="checkbox"/>
Force PRD Behavior in Non-PRD Environments:	<input checked="" type="checkbox"/>
Profile:	<input type="text" value="StripeProfile"/>
Credentials:	<input type="text" value="StripeCredentials"/>

Firewall Requirements

No requirements

4. Testing

Once the cartridge is installed and integrated based on instructions, please try to place an order on your sandbox to test the storefront functionality.

Stripe test values can be found in the Stripe documentation (<https://stripe.com/docs/testing>). This includes a number of test Credit Cards for use in testing a wide variety of scenarios. However, the test Credit Cards only work while using your test secret and publishable API keys. Further, you cannot use real Credit Card numbers with your test API keys.

Monitoring and testing the integration against the Stripe Dashboard is highly encouraged. Aside from what Credit Card numbers can be used, Stripe functions largely the same with both test and live transactions. Once you've satisfactorily completed and tested your integration, merely change your two Stripe API keys to take your integration live.

Checkout

Step 1: Add Product into cart.

Step 2: View the cart page or expand mini cart.

Step 3: Click on "Checkout" button.

Step 4: Checkout as Guest or login to your account.

Step 5: Fill shipping address or select shipping address from saved address and select shipping method.

Step 6: Click on "Next: Payment" button.

Step 7: Fill billing address or select billing address from saved address, fill email, phone Number and select payment method as "Credit card" and enter test data from <https://stripe.com/docs/testing> or just use the card number 4242424242424242 and any CVV and expiration.

Shipping

Edit

Shipping Address:

Jotaro Kujo
Shakedown Road 1
Egypt AK 12345
9234567890

Shipping Method:

Express (2-3 Business Days) \$16.99

Payment

Billing Address

Jotaro Kujo Shakedown Road 1 Egypt AK 12345

Update AddressAdd New

*Email ⓘ

*Phone Number ⓘ

9234567890

Pay now ▶

Credit CardAlipayACH Credit Transfer

VISA 4242 4242 4242 424202 / 22 222 22222

Next: Place Order

Step 8: Click on "Next: Place Order" button.

Step 9: You should see the confirmation page

Thank you for your order.

You will receive an email confirmation shortly at jojo@gmail.com

Save My Information

* Password

* Confirm Password

Create Account

Receipt

Order Number: 00060002
Order Date: 1/27/20

Shipping Address:
Jotaro Kujo
Shakedown Road 1
Egypt, AK 12345
9234567890

Shipping Method:
Express (2-3 Business Days) **\$16.99**

Billing Address:
Jotaro Kujo
Shakedown Road 1
Egypt, AK 12345
jojo@gmail.com
9234567890

Payment:
Credit Visa
*****4242
Ending 2/2022

Checkout using the Payment Request Button

Step 0: Make sure you have at least one saved address and one credit card in your browser (Chrome)

Step 1: Add Product into cart.

Step 2: View the cart page or expand mini cart.

Step 3: Click on "Checkout" button.

Step 4: Checkout as Guest or login to your account.

Step 5: Fill shipping address or select shipping address from saved address and select shipping method.

Step 6: Click on "Next: Payment" button.

Step 7: Click on "Pay now >" button


Payment


Billing Address

Jotaro Kujo Shakedown Road 2 Morioh AL 12345


Update Address

Add New

*Email 

*Phone Number 


9234567890

Pay now 

Credit Card

Alipay


ACH Credit Transfer

 Card number


MM / YY CVC

Step 8: A similar dialog should appear fill in the payment information and click the "Pay" button.

Review your payment

Order summary	Order Total	USD	\$93.43	▶
Payment	Visa ••••4242 test test			▶
Contact info	Jotaro 6666666 jotaro@gmail.com			▶

You can manage cards and addresses in [Settings](#).

 chrome


Pay

Cancel

Step 9: Enter any CVC code and click confirm

← Enter the CVC for Visa ••••4242

Once you confirm, your card details will be shared with this site.

 777

Confirm

Step 10: After clicking confirm you should be redirected to the last page of the checkout. Click the "Place Order" and you should see the confirmation page

Payment [Edit](#)

Billing Address:
jotaro@gmail.com jotaro@gmail.com
Shaketown Road
Morioh AL 12345
jotaro@gmail.com
1234567899

Payment:
Credit Visa
*****4242
Ending 12/2020

Place Order

Step 11: The confirmation page should be visible

Thank you for your order.

You will receive an email confirmation shortly at jotaro@gmail.com

Save My Information

* Password

* Confirm Password

Create Account

Receipt

Order Number: 00060901

Order Date: 1/28/20

Shipping Address:

Jotaro Kujo

2 Wylcotts

Moseley Road

Worcester, AK 12345

3333333333

Shipping Method:

Express (2-3 Business Days) **\$16.99**

Billing Address:

jotaro@gmail.com jotaro@gmail.com

Shaketown Road

Morioh, AL 12345

jotaro@gmail.com

1234567899

Payment:

Credit Visa

*****4242

Ending 12/2020

5. Operations, Maintenance

Data Storage

The Stripe LINK cartridge extends Commerce Cloud to store several data points.

Customer Profile: Stripe Customer ID, used to retrieve information about the customer's record in your Stripe account.

1. stripeCustomerID(string) - Store Stripe customer ID

Order/Basket Custom attributes

1. stripePaymentIntentID(String) – Store payment intent ID.
2. stripeIsPaymentIntentInReview(Boolean) - Store payment intent in review

Payment Transaction custom attributes

1. stripeChargeID(string) - Store charge id
2. stripeChargeOutcomeData(text) - Store charge outcome data
3. stripeClientSecret(string) - Store client secret
4. stripeJsonData(text) - Store webhook JSON data
5. stripeOrderNumber(number) - Store order number
6. stripeSourceCanCharge(boolean) - Store if Stripe source can be charged
7. stripeSourceID(string) - Store Stripe source ID

Payment Transaction custom attributes

1. stripeChargeId(string) - Store charge ID
2. stripeCardID(string) - Store card ID
3. stripeCustomerID(string) - Store customer ID
4. stripeDefaultCard(boolean) - Store Stripe default card
5. stripeClientSecret(string) - Store client secret
6. stripePRUsed(boolean) - Store payment request button used
7. stripeSavePaymentInstrument(boolean) - Store save payment instrument
8. stripeSourceID(string) - Store Stripe source ID

Custom Objects

In Business Manager, navigate to the Merchant Tools > Custom Objects > Custom Objects. Below custom object is there.

1. StripeWebhookNotifications

Custom Site Preferences: noted in detail above (section **Configuration**).

Availability

Please refer to the Stripe Service Level Agreement <https://stripe.com/legal> to determine specific up-times for the service. In case the service fails, there is no fail-over to allow transactions to proceed. Users will instead be provided with friendly error messaging

Failover/Recovery Process

If the Stripe service is unavailable the user will not be able to checkout.

The service availability can be tracked in SFCC using the Service Status.

Support

For defects or recommendations on improvements, please contact Stripe Support (<https://support.stripe.com>).

6. User Guide

Roles, Responsibilities

There are no recurring tasks required by the merchant. Once configurations and job schedules are set up, the functionality runs on demand.

Business Manager

Business Manager settings and configuration notes are described in detail in the Configurations section.

There are 2 jobs coming with the cartridge:

- Stripe - Delete Custom Objects
- Stripe - Process Webhook Notifications

Enable the job “Stripe - Process Webhook Notifications” for the desired site:

Site Assignments

☐

ID

Name

Status

☒

RefArch

RefArch

online

☒

RefArchGlobal

RefArchGlobal

online

☒

SiteGenesis

SiteGenesis

online

☒

SiteGenesisGlobal

SiteGenesisGlobal

online

☐

sitegenesisrefresh

SiteGenesisRefresh

online

☐

teststore

Test Store

online

Cancel

Assign

Stripe - Process Webhook Notifications ?

[General](#)

[Schedule and History](#)

[Resources](#)

[Job Steps](#)

[Failure](#)

[Job Parameters](#) 0

Scope: 4 Sites Assigned

[Process Webhook Notifications](#)

Storefront Functionality

Credit Card Tokenization

Stripe.js credit card tokenization requires the inclusion of JavaScript on the payment forms, both during Checkout > Billing as well as My Account > Saved Payment Instruments. Additionally, the credit card 'type' form fields are automatically detected and updated rather than requiring user selection.

Saved Credit Cards

When an authenticated customer selects a saved credit card on the Checkout > Billing page, they will see a list of their Stripe-saved payment Sources as radio buttons rather than the default SiteGenesis select options.

Payment

Billing Address

qweqwe qatgtwqatw 2 Wylcotts Worcester, AL 12355

Update Address

Add New

*Email

*Phone Number

3333333333

Pay now

Credit Card

Alipay

ACH Credit Transfer

Saved cards:

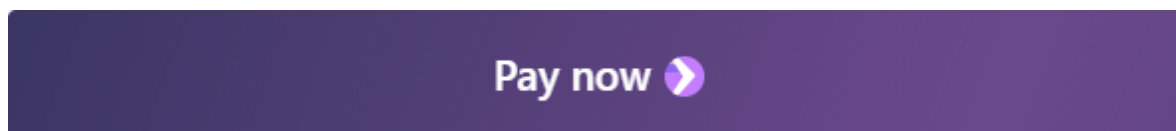
*****4242 - 10/2020 - share

*****3220 - 2/2029 - QWe qwe

Add a new card

Payment request button

When a customer has a saved address and credit card information in their browser they see the payment request button (Pay Now). The Payment Request Button Element gives you a single integration for Apple Pay, Google Pay, Microsoft Pay, and the browser standard Payment Request API.



Customers see the button above or an Apple Pay button, depending on what their device and browser combination supports. If neither option is available, they don't see the button. Supporting Apple Pay requires [additional steps](#), but compatible devices automatically support browser-saved cards, Google Pay, and Microsoft Pay.

7. Known Issues

The LINK Cartridge has no known issues.

8. Release History

Version	Date	Changes
20.2.0	2019-02-01	Update documentation to match the new Salesforce template
18.1.0	2019-04-15	Update to use Stripe elements, sources, payment request button, webhooks and asynchronous payments
16.1.0	2019-07-30	Initial release