Klarna Payments

Version 19.1.5



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1. Summary

This cartridge enables a Commerce Cloud store to use the Klarna Payments service.

The developer has to install the cartridge and integrate it into the online store following the instructions from this document. Merchant teams are required also to configure the cartridge with the valid merchant credentials and site configurations in Commerce Cloud Business Manager to enable Klarna payments methods in the checkout. It is a requirement that Merchant sign a contract for integration support and production go-live with Klarna.

Klarna offers a test environment, so the integration can be tested before switching to the Klarna production environment. Based on the contract, Klarna shall provide assistance with integration and testing prior to sign-off for go-live.

The integration consists of an archive, which contains the following contents:

- Cartridge called 'int_klarna_payments', and optionally either "int_klarna_payments_pipelines" or "int_klarna_payments_controllers" depending on which architecture is to be employed.
- A site-template archive containing new attributes and settings
- This document
- The integration is based on the Site Genesis demo store provided by Commerce Cloud.

2. Component Overview

2.1 Functional Overview

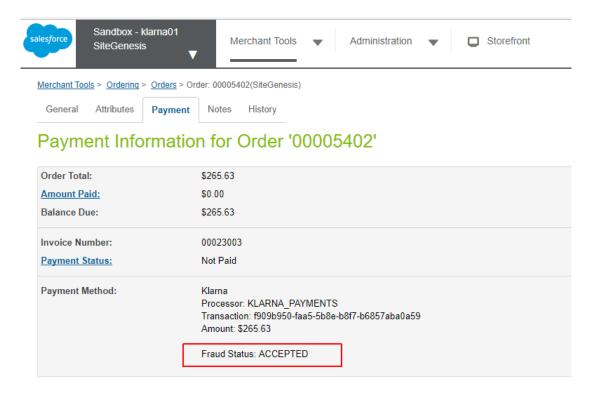
Klarna payment can be integrated via the Klarna Payment REST API and the JavaScript SDK on the storefront. Klarna Payment enables consumers to choose from the different payment method products offered by Klarna. Multiple Klarna products are available within the categories Pay Now, Pay Later and Pay Over Time. The cartridge integration displays payment options via a widget (iframe) added inline on the billing page, referred to as Klarna widget or just "the widget". The widget with information about the payment method is displayed to the customer when the individual clicks on the Klarna payment method.

Customers can authorize the payment after reviewing the payment method terms and clicking Place Order button. The Klarna order is confirmed once order is placed and customer re-directed to the confirmation page.

Klarna Payment integration sent customer browser to the location returned in redirect_url as Klarna needs to interact with customer's browser as first party before redirecting to the confirmation page on the store. This ensures a faster checkout experience for returning customers, as the customers device is recognized.

Orders successfully placed with Klarna return a Fraud Status: APPROVED and displayed in Business manager (BM). Klarna orders with Fraud Status PENDING, updates are sent to the notification_url on the merchant Commerce Cloud site within 4-24 hours. The updated Fraud status depends on the fraud screening, (e.g. FRAUD_RISK_ACCEPTED, FRAUD_RISK_REJECTED, FRAUD_RISK_STOPPED) returns a Fraud Status and displayed in BM. The push notification is repeatedly sent until (up-to 24 hours, every 10 mins) the POST request is acknowledged with a 200 response.

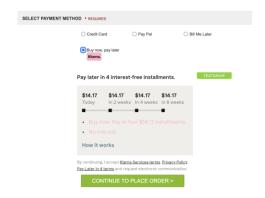
In case order is ACCEPTED, order creation in SCC proceeds as usual, in case of REJECTED status, order is failed and in case of PENDING status the 'two phase ordering' approach is used, where the order is first created but only 'placed' after notification for ACCEPTED status is asynchronously received. If neither ACCEPTED, nor REJECTED status is received the order will stay in status 'created' until an action is taken by the merchant. Klarna payment status is saved in a custom attribute with id kpFraudStatus in the PaymentTransaction system object, and can be seen in BM on the order details Payment tab as below:

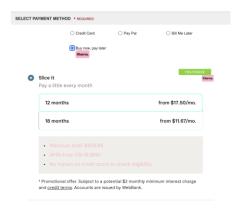


2.2 Use Cases

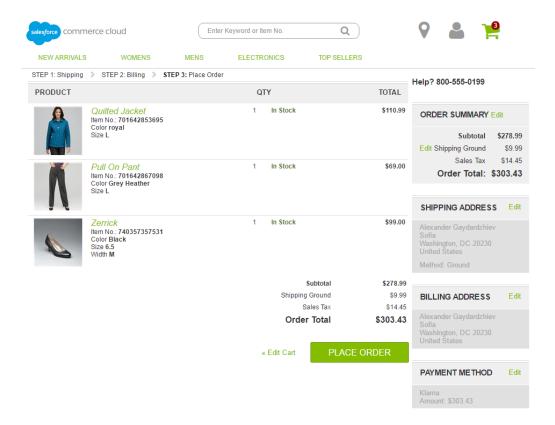
1. Create an order in SCC using Klarna Payments as a payment method though Klarna Payments widget on the billing page. All the SCC OOTB checkout functionality remains in place, such as but not limited to: cart updates during checkout, checkout with applied coupon(s) code(s), checkout with applied product level promotion, checkout with applied order level promotion, checkout with applied shipping level promotion, checkout with applied order level promotion with bonus product.

Select 'Klarna' as the payment method on Billing page of checkout process and click the 'CONTINUE TO PLACE ORDER' button:

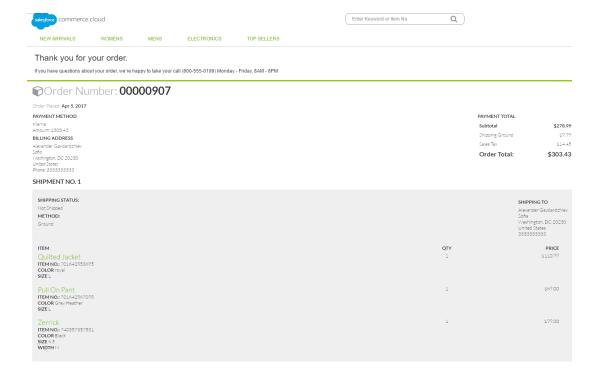




You will see the Order Confirmation page with payment method Klarna and can press the 'PLACE ORDER' button:



The customer's browser is sent to the redirect_url and immediately thereafter shown the Commerce cloud Order Confirmation page



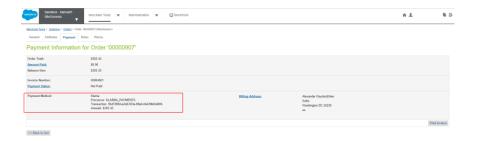
The newly created order can be the inspected in BM



Klarna Payments order id can be inspected in the Attributes tab of the order

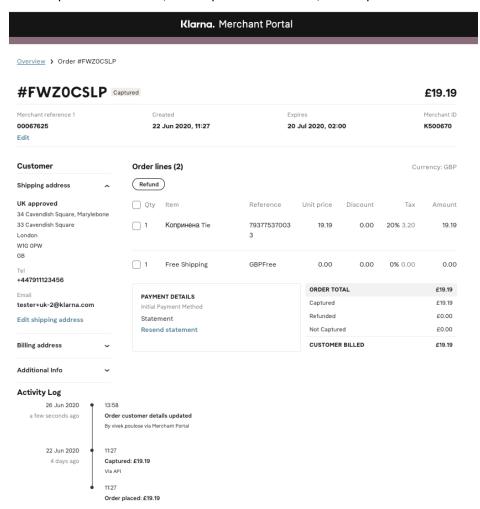


Payment method details can be inspected on the Payment tab of the order, and it should be Klarna



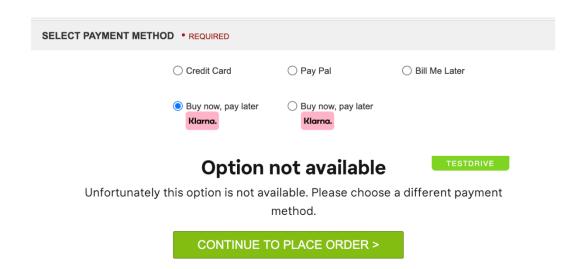
Order can be further inspected in Klarna Merchant Portal:

EU: eu.portal.klarna.com, US: us.portal.klarna.com, OC: us.portal.klarna.com



2. Refuse Klarna Payments as a payment method

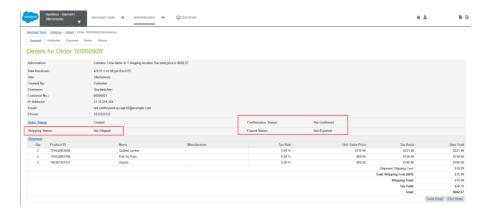
Upon selecting 'Klarna' as the payment method on Billing page of checkout process and based on the information provided Klarna Payments can be refused as a payment method.



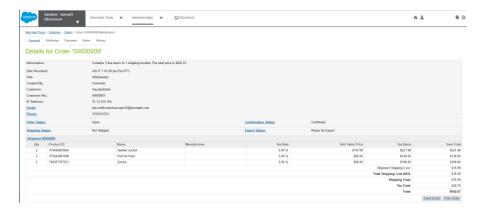
- 3. Klarna Payments not available if Klarna API is not available, Klarna is not presented as a payment option
- 4. Order accepted after review Instead of immediately accepting the order, it may happen that Klarna flags this transaction for additional review and accept it later on. The order is then created in the SCC system:



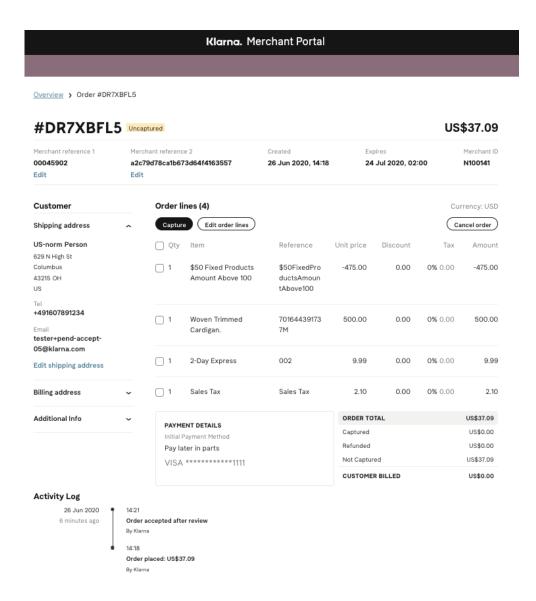
This order is marked with EXPORT_STATUS_NOTEXPORTED, confirmation status NOTCONFIRMED and NOTPAID.



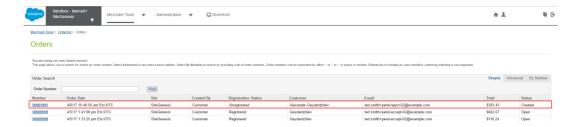
Upon receiving approval from Klarna the order is placed:



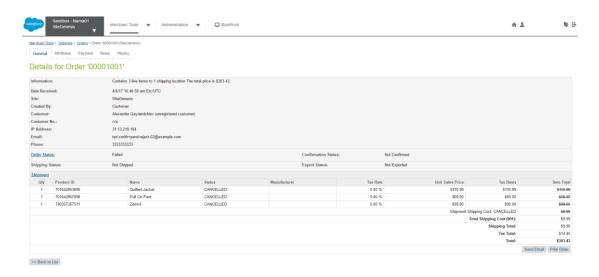
In Klarna's Merchant Portal (Orders) the order is marked as accepted after review:



5. Order rejected after review - Instead of immediately accepting the order, it may happen that Klarna flags this transaction for additional review and reject it later on. The order is then created in the SCC system:



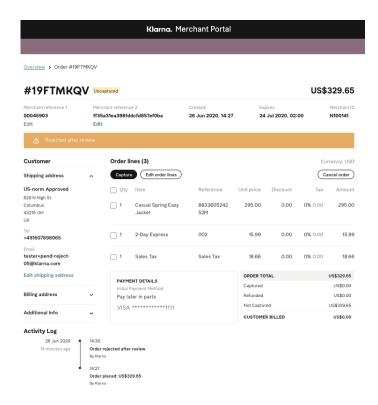
This order is marked with EXPORT_STATUS_NOTEXPORTED, confirmation status NOTCONFIRMED and NOTPAID.



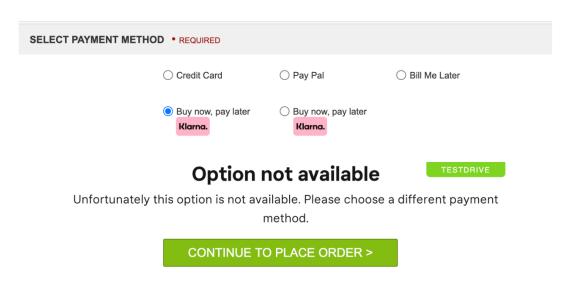
Upon receiving rejection from Klarna the order is failed:



In Klarna's Orders system the order is marked as rejected after review:



6. Klarna Payment option not available for the current purchase – the customer is presented with an appropriate message when attempt to choose Klarna is made.

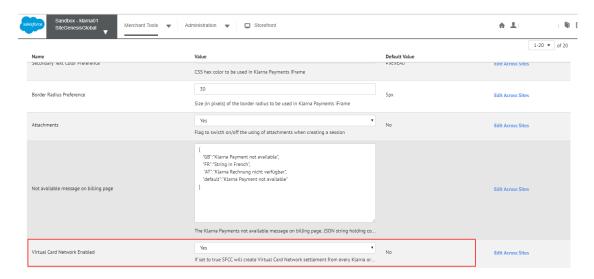


7. Gift Certificate / Klarna Payments split payment

Use Klarna Payments in combination with OOTB Site Genesis Gift Certificate functionality. When a gift certificate(s) is(are) redeemed in the checkout flow and remaining order amount is paid with Klarna Payments an order line item(s) 'Gift Certificate' is added to the Klarna Order reducing the amount owned with the gift certificate Payment Instrument(s).

8. Virtual Card settlements as an alternative to standard order management

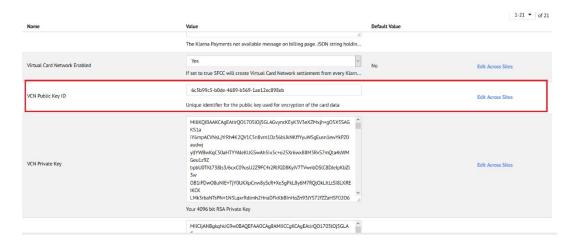
The virtual card solution can be enabled through the site preference as shown below:



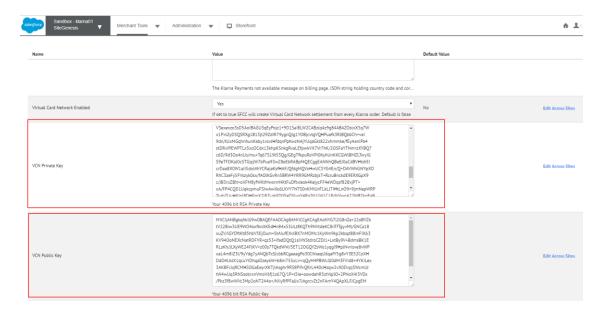
This option is disabled by default. However, if standard order management is not a reasonable option for a Klarna integration, instead Klarna's virtual card solution (MCS), can be enabled. When a customer places an order, the order is first booked in SFCC. If the order has a fraud_status of PENDING, action is not taken on the order until receiving Klarna's push notification that the fraud_status has changed to FRAUD_RISK_ACCEPTED. Once an order has been accepted by Klarna, the merchant platform creates a virtual card settlement, per the merchant card services (MCS) API.

Once a settlement has been created, the merchant platform can authorize the virtual card until the Klarna order is valid. Then, once the order has been fulfilled, the card funds should be captured. (For delays in capture, or other special use cases, please speak with the Klarna key account manager in advance) While Klarna is the original payment method of the order, the order will be settled with a credit card instead of direct bank account transfer. You can find more information here around other use cases. To utilize virtual card integration option the merchant should:

- Enable VCN option in Site Preferences as shown above
- Enter the VCN Public Key ID. Unique UUIDv4 value, which is different for playground testing and Production (live site)



- Generate a 4096-bit RSA key pair. Set the custom preference 'vcnPublicKey' with the value of the public key without the header and footer lines (begin and end public key) and the custom preference 'vcnPrivateKey' with the value of the private key without the header and footer lines (begin and end private key). As shown below:



How to generate a 4096-bit RSA key pair:

In order to generate an RSA keypair with a 4096-bit private key you can use the following openssl command:

openssl genpkey -algorithm RSA -out private_key.pem -pkeyopt rsa_keygen_bits:4096

In order to extract the public key from an RSA keypair, you can use the following openssl command:

openssl rsa -pubout -in private_key.pem -out public_key.pem

In the folder where you have executed the above commands two new files will be created - public_key.pem and private_key.pem.

The contents of the files should look something like:

public_key.pem

-----BEGIN PUBLIC KEY-----

MIICIJANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEAoNYG7l2G8nZa+22oBYZk tV228lw3UE9WO4oxfknJtKEdHn84x55ULt8KQTh9NVtdeKC8nTfTgyvMt/GNCa18 xuZV/IGYDftKt85hbV5EjOum+StAIufEXvIBX7nMOMc1KyWm9kp2kbqd88mFIX63 KV94OoNEXcNatRDFYR+qz53+ifadDQtQ1slVNStdroCZDJ1+LxtBy9V+BdmsBK1E RLsKh/JLXyWE24FJKV+z00s7TQkdWW/5ET12OGQYZsWo1yqgi9HplNvrisve8vWP xaL4m8iZ3l/9yYdg7yANQbTxSJcbbRCgaaagPo30CNxeqU6qafY5g8vY3E52CoXH DdO4UslX1qcuYlDhqaDzey6W+b8m755xLi+rqQyM4PBWL0J0dM3FVid8+4YKILex 3AKBFciqRCMHSOGaEeyrXKTjlAsghr9RS8PifvQRrL440cHzqw2vX0DvpjSWcmUJ tW4wUq5RNSsobrxnVmoV6fj1z67Q/1P+l5le+oowdahR5ztVqJlO+2PNoX4I5VDs /Pkz3f8wWVc3Mp2oNT244o+/NliyRfPFaJJx7JAgrcvZt2nFAmY4QApXLFJCpgEM wYucE4AH4gJKsh3KZbxRERrrO72bL2rxvWqBp/0h7DcMsV9sQs4Bvxxll6CF506F ThzmclaKLBAyd5LALiXiPfkCAwEAAQ==

----END PUBLIC KEY----

private_key.pem

----BEGIN PRIVATE KEY----

MIIJQQIBADANBgkqhkiG9w0BAQEFAASCCSswggknAgEAAoICAQCg1gbuXYbydlr7 bagFhmS1XbbyXDdQT1Y7ijF+Scm0oR0efzjHnlQu3wpBOH01W114oLydN9ODK8y3 8Y0JrXzG5IX+UZgN+0q3zmFtXkSM66b5K0Ai58Re+UFfucw4xzUrJab2SnaRup3z yYUhfrcpX3g6g0Rdw1q1EMVhH6rPnf6J9p0NC1DWyVU1K12ugJkMnX4vG0HL1X4F 2awErUREuwqH8ktfJYTbgUkpX7PTSztNCR1Zb/kRPXY4ZBhmxajXKqCL0emU2+uK y97y9Y/FovibyJncj/3Jh2DvIA1BtPFIlxttEKBppqA+jfQl3F6pTqpp9jmDy9jc TnYKhccN07hSyVfWpy5ggOGpoPN7Lpb5vybvnnEuL6upDIzg8FYvQnR0zcVWJ3z7 hgogt7HcAoEVyKpElwdl4ZoR7KtcpOOUCyCGv1FLw+J+9BGsvjjRwfOrDa9fQO+m NJZyZQm1bjBSrlE1KyhuvGdWahXp+PXPrtD/U/6Xkh76ijB1qFHnO1WomU77Y82h fgjlUOz8+TPd/zBZVzcynag1Pbjij780iLJF88VoknHskCCty9m3acUCZjhAClcs UkKmAQzBi5wTgAfiAkqyHcplvFERGus7vZsvavG9aoGn/SHsNwyxX2xCzgG/HEiX olXnToVOHOZyVoosEDJ3ksAuJeI9+QIDAQABAoICACRkaUsUNI22RB3yEPu3DiCP pO6v+QAeA4gTW+GUdqR9dCZLaSCZ7bhxVVOuoX4qPzslO6hjUmOyzG6upFgVPk+P HNQfyEUZoC148Eib9OziAXUN2URMpv1KbwVm+BO814X8zguai7uru0PHTG1oy677 4Ct1OknxAxxHQDIaxT6XJFo5SA4EinUfNz2Bo3/xry/QjxW/mCK0GwDd4PNp9TGM FPTv2SgdSDOWzGQIOH5N3owuzMpI8NV6z74wv+i5Ptv41Dzu8WhyXpiYSsk00SRK HPC68j2bAzTPghp5aSZ9976SGm2SPonJXyboXdiHbI/osdyqDxeIT3iB9GmrHX/i kHPGJCh7fRZvqj39Hc+lxYjabwW3rDeDIPB7ab9z1KLF4z1D6AZOKCPyTaDRdQ1Q eDi7LwDmk7NHEPrmF/nlcguQdqblbmFO2zEs0TOe6y4uBMndRsbQprTNSMUdBkrA INaYVSTQ1Z0Y/8DZDpGcyS1OnJv74F15uDjKN6/ov991mZ1JrZ+V2sdS3EDUlmvP 6thQKwI7Ln6h+ApHtWUG1NmvQe5gJE0qAeJ9b45clUzIRUwhVmEp8NoIJh0kAjaN d4lk7xy9ZRDUY5yekPeYrJPShjsHAyEoktJIjRufl2UUq3uxNjjICoQcOVGfNDIS YTTPwpu1pmC0C+rh2fgBAoIBAQDRultRArvtc2JKhVOUyZk88zd9kvrl6fNiyKmi HgiWf7qkTPD9xhOQWDw3iwRFQAD+YkgV5MCBO8wp8oO8GEsOCI+XZWExOcPT0Vfj PZHiQrTFnlfG/+fAO14xLf3j3ED4YQXdHOKI3xoLknQx/EydLoctxgkkpgWLrsA7 DwdSAg1/0sBvaHY27ogAfdimHdaKZ5OAe4a9k1qP3xVZBuOe8Sd65unBavUJLDuv ikeNmkSVgW1sm55/729JIr63USHF76It+vE1cdZ+vKg5vYotsQgPzvNBmUO/E8Gj zMXQRfqfvEDINXEX0rCupTkw1G6AGTwQc/NPzyr/LTpLe6UBAoIBAQDEUjTiG11V hf7WjdG3gctRlr+mYapQHgXdVLx2QSaqUYid+0QXK11YfJlsRB6nwa+OED83RfP0

IIFqxpzudSLPmoDuIBT7DI5c/aleyKs/siUusP8QVDXk6OAR84XSytC35sIRV7pE VMuBL91jfkQ0Lf/PreslK/kl6Yvwwp4qrHK6/f9TgciHclYtf+/oti4ky6GJgfmP fmuCqjxmUKbXXFPd5RbL2THGOowilb8zDLjf3RlbjlQFqogAk6H9hp2V0VZLiJHp UWM3z3zxDWeDaqJ08sHuk/rA9QpsVTu8IGTQsxdj8JwluN1Q+YZiOuPiSENBqPzT V3exexzo3sD5AoIBAGU3qEyPojz1+9D1SaI8LW2CABzlq4z9g84ABAZOslxX5q7W x1PinZyDSQSRXg1B13jt29ZdIR79ygnQlg1YOBjcvtgVQHPuafk3RlBQbbCh+val 9dn/tUxMGqhnhunKaby1rovJHfdqnPpKwzNAjYUqaGkJ822xhmmke/fEyAanIPa4 stDRvIPEWPTLx5xcOCdx13khpKSnkgRvaLEfpwkVX7Vr7hK/2OSFaYTNmrzXYBQ7 c6D/9d3Oo4nLb/mu+Tq67S19t53Qg/GEgTfkpuRoVPi0KyhUnKKCGWIBMZLTwyIG S9eTFDKoJ0cSTGipjW7bPua93wZ8eEbRABpf4QECggEANNhQBeEJ0aCdBVHtdrEI crDaa8X0W1aJi5dol4hYCRajaKsfHAF/QfdgMQVxHwUC5YG4En/Q+DAVWhGWYpXD RhC3zeFy5FVszyk0sx/fAOlKGvRn5BRW4YRR9GMRzbjsT+RcruBnckdE9ERXGpX9 c/JB3rxZBIt+oIiFM8yfWKtMwsrmNKtFuDftvJeok4KejycFF4eWDqsf828xjPT+ xA/FP4CQD1UqkcpmuFSIwAwXo6LXVY7NTS0nKMiUnTLkLlTIHtLnO9+9jmNapWRP Tc+hZUuHKlpI8DHFmX2j87LgkFD05eD5lynY4RgZtU1W1C1RdVYwoA72WB7knEaB uQKCAQAH9s67P/7fFX9dfEans3PHU4nGjD8dJ8eoNQ6DhBMydZpGWI5ZUeEBZDRk OcBOeRs5BOcS43Em9kETpzawyCwxmnwzl+CzoPzMQcTw9tXomF9HG6RJ9XBdJfGA ALAwCd4bASxmFM6guSP5GKnZ9aY3tR3tWWDfr7f9z8wOewzzpPclwRh009fPe4TC NXoEm1MELJVeUieDSLKZgjgCw8WHGqLltONpA0/fwSM2glcxETVV7qx3aPuJzCVh LQZoBLQk3UMKsWDdpzeBdiERe66NAgVk92Xe7SY9EY2vymaq761i1x1vlprT27qp 240LDJawgM0IraKmdCvWjofWSaOU

----END PRIVATE KEY----

- Finally, you need to send the generated key_id/public key in JWK format to Klarna prior to testing/go-live. It will be used to encrypt the virtual card pan and csc on Klarna side when settlement request is made. After confirmation from Klarna that the key has been successfully added to your merchant profile you would be able to use virtual card-based settlement option for Klarna payment methods.

Note:

The recommend RSA keypair size of 4096 bits. This key pair must be associated with a unique key_id (UUIDv4). The public key must be shared in JWK format with Klarna contact. Note that for production and playground, the <u>Key_id and corresponding keypair combination shared are different</u> and must be <u>configured prior to testing/go-live</u> with the agreed virtual card product

- Authorize the virtual credit card

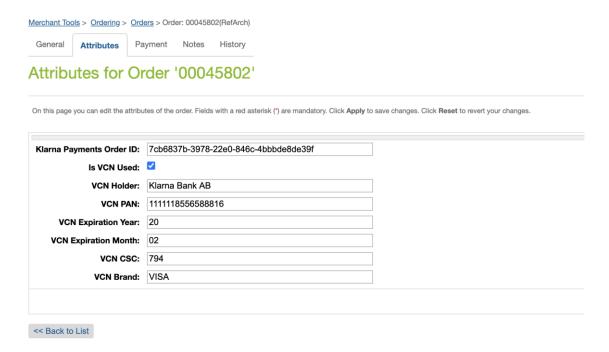
The virtual credit card details are stored as order level custom attributes, and can be accessed through the Order object as follows:

- Order.custom.kpVCNBrand virtual credit card brand;
- Order.custom.kpVCNCSC virtual credit card csc;
- Order.custom.kpVCNExpirationMonth virtual credit card expiration month;

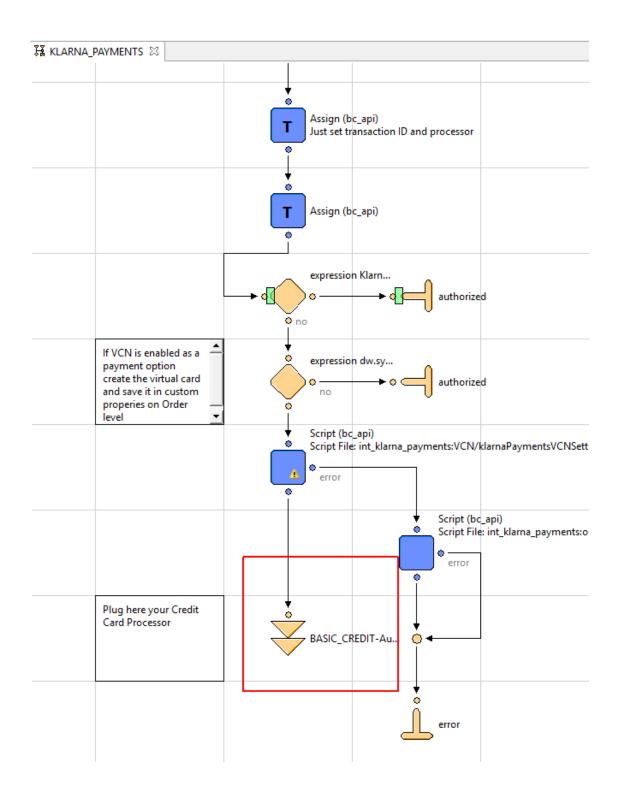
- Order.custom.kpVCNExpirationYear virtual credit card expiration month;
- Order.custom.kpVCNHolder virtual credit card holder;
- Order.custom.kpVCNPAN virtual credit card number;
- Order.custom.kplsVCN Boolean property indicating whether VCN is used.

Note: Please review the details in the order export XML prior to go-live. This is to ensure that card details are fetched from the correct custom attribute fields in your Orders XML file for post purchase order processing.

These attributes can be inspected in the BM order details in the attributes tab as shown below:

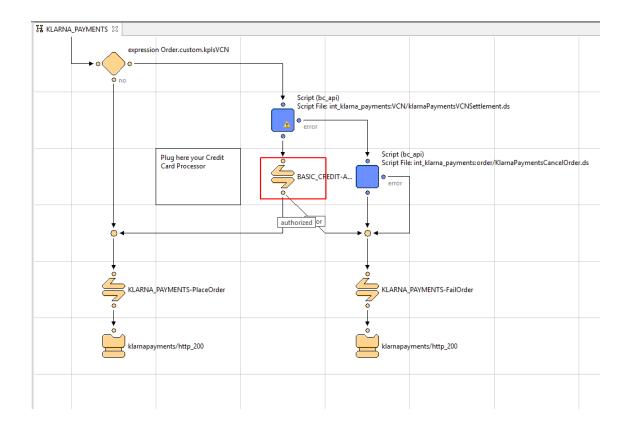


It is up to the merchant to use the credit card details as described above to authorize the virtual credit card. As an example, authorization is done with calling BASIC_CREDIT-Authorize as below (pipeline version):



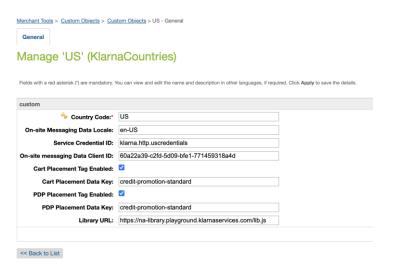
You need to add your own logic in KLARNA_PAYMENTS-Authorize in the place of BASIC_CREDIT-Authorize call node.

You would also need to add your own card authorization login in the place of BASIC_CREDIT-Authorize call node in the KLARNA_PAYMENTS-Notification pipeline as shown below:



9. Configure On-Site Messaging

Klarna On-Site Messaging (OSM) is configured per-site per-locale via the **KlarnaCountries** custom object. To configure the OSM settings for a locale, you must visit "*Merchant Tools – Custom Object Editor*" and search for **KlarnaCountries** custom object. Provide a valid locale for the OSM tag based on the country being configured. The OSM Data Client ID and Data keys required are available in Klarna Merchant Portal – On-site Messaging App



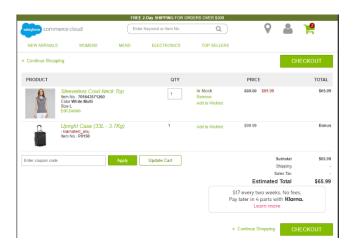
To enable Placement tag for the Cart Page, the "Cart Placement Data Key" must be filled with Data Key value and the "Cart Placement Tag Enabled" must be checked

To enable Placement tag for the PDP Page, the "PDP Placement Data Key" must be filled with Data Key value and the "PDP Placement Tag Enabled" must be checked

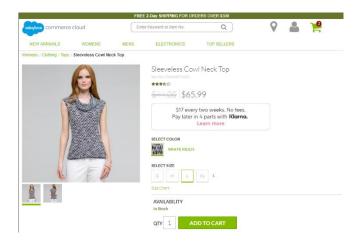
In Library URL, please input the full URL to the On-Site Messaging JavaScript Library.

In On-site messaging Data Client ID, please input the On-Site Messaging Data client ID value

On-site messaging Data locale, please input the valid On-Site Messaging Data locale



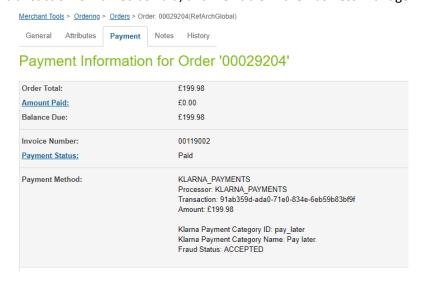
Klarna On-Site Messaging Enabled on Cart Page



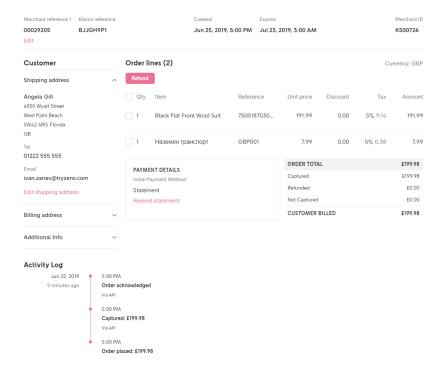
Klarna On-Site Messaging Enabled on PDP Page

For more information regarding customizations and best practices, please refer to the Klarna Developer: https://developers.klarna.com/documentation/on-site-messaging/customization/

When the preference is enabled (disabled by default), a full amount capture is attempted prior to acknowledging the order with Klarna. If the capture is successful, the SFCC order's payment transaction is marked as Paid, and viewable in the Business Manager.



The order will be marked as "Captured" in the Klarna's Merchant Dashboard.



If the capture is unsuccessful, an error will be logged in the custom error log.

2.3 Limitations, Constraints

The merchant will need a configured Klarna Payments account/MID for playground and production. Note: The later requires a contract with Klarna

The merchant can style the Klarna Payments widget (skin), to make it matching the look and feel of their store. The list with the graphic elements that can be customized, through site preferences is as follows:

- "color_details" (site preference kpColorDetails): "#C0FFEE"
- "color_button" (site preference kpColorButton): "#C0FFEE"
- "color button text" (site preference kpColorButtonText): "#COFFEE"
- "color_checkbox" (site preference kpColorCheckbox): "#C0FFEE"
- "color_checkbox_checkmark" (site preference kpCheckboxCheckmark): "#C0FFEE"
- "color header"(site preference kpColorHeader): "#C0FFEE"
- "color_link"(site preference kpColorLink): "#C0FFEE"
- "color_border"(site preference kpColorBorder): "#C0FFEE"
- "color_border_selected"(site preference kpBorderSelected): "#C0FFEE"
- "color text"(site preference kpColorText): "#C0FFEE"
- "color_text_secondary"(site preference kpColorTextSecondary): "#C0FFEE"
- "radius_border"(site preference kpRadiusBorder): "0px"

Successful payment authorizations (Klarna Payments status APPROVED) lead to a 'Paid' order payment status and 'Ready for Export' export status

Refused and pending payment authorizations (Klarna Payments statuses REJECTED and PENDING) lead to a 'Not Paid' order payment status, and 'Not Exported' export status

Cancels and refunds lead to a 'Not Paid' order payment status (even if the status was 'Paid' before), and 'Not Exported' export status

The cartridge makes use of the Klarna Payments JSON REST API and a JavaScript SDK.

2.4 Compatibility

Compatible with Commerce Cloud 18.1.0 and SiteGenesis 105.0.0

2.5 Privacy, Payment Data

- The cartridge is compliant with GDPR recommendation and follows the best practice mentioned <u>here</u> and implementation follows practice mentioned <u>here</u>
- 2. EMD (Extra Merchant Data): The cartridge supports sending additional information on the customer's past purchase history when turned on in custom preferences: Attachements(kpAttachments). The type of data that can be send as an attachment is mentioned here. EMD is required for certain types of merchant order and inclusion of EMD is (e.g.customer_account_info: past purchase with merchant store) generally beneficial to improve acceptance rates. EMD is included as part of Authorization step in Commerce Cloud checkout. The data send to Klarna is customizable through a hook. An example hook contents are provided in int_klarna_payments/scripts/EMD/KlarnaPaymentsBuildEMD_hooks.js. The merchant can customize the contents of the BuildEMD function. Current Basket or Order object can be accessed thorough args. LineItemCtnr. This script should return a JSON string to be used as a value for the body sub-field of the attachment field as described here. If the example KlarnaPaymentsBuildEMD_hooks.js file is used unchanged the data send to Klarna is by the following schema:

```
"$schema": "http://json-schema.org/draft-03/schema#",
"id": "http://klarna.com/v2/emd#",

"description": "Extended Merchant Data Payload Schema",
"type": "object",

"properties": {

    "customer_account_info": {

    "type": "array",

    "items": {
```

{

```
"type": "object",
                           "properties": {
                                   "unique_account_identifier": {
                                   "type": "string",
                                   "maxLength": 24
                                   },
                                   "account_registration_date": {
                                   "description": "ISO 8601 e.g. 2012-11-24T15:00",
                                   "type": "string",
                                   "format": "date-time",
                                   "pattern": "^[0-9][0-9][0-9]-[0-1][0-9]-[0-3][0-9]T[0-2][0-
9]:[0-5][0-9](:[0-5][0-9]){0,1}Z{0,1}$"
                                   },
                                   "account_last_modified": {
                                   "description": "ISO 8601 e.g. 2012-11-24T15:00",
                                   "type": "string",
                                   "format": "date-time",
                                   "pattern": "^[0-9][0-9][0-9]-[0-1][0-9]-[0-3][0-9]T[0-2][0-
9]:[0-5][0-9](:[0-5][0-9]){0,1}Z{0,1}$"
                                   }
                           }
                   }
           },
           "payment_history_full": {
                   "type": "array",
                   "items": {
                           "type": "object",
```

```
"additionalProperties": false,
                           "properties": {
                                   "unique_account_identifier": {
                                           "type": "string"
                                   },
                                   "payment_option": {
                                           "type": "string",
                                           "enum": ["card", "direct banking", "non klarna credit",
"sms", "other"]
                                   },
                                   "number_paid_purchases": {
                                           "type": "integer"
                                   },
                                   "total_amount_paid_purchases": {
                                           "type": "number"
                                   },
                                   "date_of_last_paid_purchase": {
                                   "description": "ISO 8601 e.g. 2012-11-24T15:00",
                                   "type": "string",
                                   "format": "date-time",
                                   "pattern": "^[0-9][0-9][0-9]-[0-1][0-9]-[0-3][0-9]T[0-2][0-
9]:[0-5][0-9](:[0-5][0-9]){0,1}Z{0,1}$"
                                   "date_of_first_paid_purchase": {
                                   "description": "ISO 8601 e.g. 2012-11-24T15:00",
                                   "type": "string",
                                   "format": "date-time",
```

```
"pattern": "^[0-9][0-9][0-9]-[0-1][0-9]-[0-3][0-9]T[0-2][0-
9]:[0-5][0-9](:[0-5][0-9]){0,1}Z{0,1}$"
                                 }
                         }
                  }
          }
   }
}
Example data:
   "extra_merchant_data": {
          "content_type": "application/vnd.klarna.internal.emd-v2+json",
          "body": {
                  "customer_account_info": [{
                         "unique_account_identifier": "5509d9f7c8720c0e4575154b",
                         "account_registration_date": "2015-03-18T20:03:03Z",
                         "account_last_modified": "2015-03-18T20:03:03Z"
                  }],
                  "purchase history full": [{
                         "unique_account_identifier": "5509d9f7c8720c0e4575154b",
                         "payment option": "card",
                         "number_paid_purchases": "23",
                         "total_amount_paid_purchases": "140023",
                         "date_of_last_paid_purchase": "2015-03-18T20:03:03Z",
                         "date_of_first_paid_purchase": "2015-03-18T20:03:03Z"
                  }]
          }
  }
}
```

3. PCI-DSS compliance

The virtual card (MCS) solution enables settlements using individual virtual card issued against a Klarna order. To be compliant with PCI-DSS requirements, merchant must ensure the data is securely maintained and transmitted as part of their operation in their live shop environment. This maybe be done in consultation with your payment service provider/acquirer and completed prior to go-live.

3. Implementation Guide

To setup and implement Klarna Payments Salesforce Commerce Cloud Cartridge, the following steps must be followed:

3.1 Setup

Klarna Payments integration has three cartridges:

- int_klarna_payments which implements the core storefront functionality;
- int_klarna_payments_pipelines which implements the storefront functionality with pipeline based approach;
- int_klarna_payments_controllers which implements the storefront functionality with controllers based approach;

3.1.1 int_klarna_payments

The int klarna payments cartridge has the following components:

Cartridge name

• int_klarna_payments

Scripts

- /checkout
 - SetPendingOrderStatus.ds
- /common
 - KlarnaPaymentsApiContext.js
 - KlarnaPaymentsHttpService.ds
- /EMD
 - KlarnaPaymentsBuildEMD_hooks.js
- /locale
 - KlarnaPaymentsGetCountryFromLocale.ds
 - KlarnaPaymentsGetLocale.ds
- /order
 - KlarnaPaymentsAcknowledgeOrder.ds
 - KlarnaPaymentsCancelOrder.ds
 - KlarnaPaymentsCreateOrder.ds
 - KlarnaPaymentsOrderModel.js
 - KlarnaPaymentsOrderRequestBuilder.js
- /session
 - KlarnaPaymentsCreateSession.ds
 - KlarnaPaymentsSessionModel.js
 - KlarnaPaymentsSessionRequestBuilder.js
 - klarnaPaymentsUpdateSession.ds
- /util
 - Builder.js
 - KlarnaPaymentsConstants.js
- /VCN
 - klarnaPaymentsVCNSettlement.ds
- $\bullet\ create Klarna Payment Instrument. ds$
- hooks.json
- klarnaRemovePreviousPI.ds

Static

- /default
 - •
- klarna-payments.js

Templates

- /default
 - klarnapayments
 - http_200.isml
 - modules.isml
 - paymentmethodshelper.isml
 - shippingaddresshelper.isml
 - klarnapaymentblock.isml
 - klarnapaymentscategories.isml
- /resources
 - klarnapaymentsresources.isml

3.1.2 int_klarna_payments_pipelines

The int_klarna_payments_pipelines cartridge has the following components:

Cartridge name

• int_klarna_payments_pipelines

Pipelines

• KLARNA_PAYMENTS.xml

3.1.3 int_klarna_payments_controllers

The int_klarna_payments_controllers cartridge has the following components:

Cartridge name

• int_klarna_payments_controllers

Controllers

• KLARNA PAYMENTS.js

Scripts

hooks.json

Other

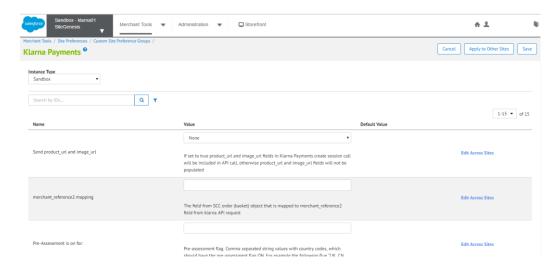
• package.json

If the base cartridges are named differently the variables shown above need to be renamed to the correct paths based on the individual integration.

3.2.1 Metadata Import

Go to 'metadata' folder, review and edit, if needed, the site-template contents. (Site template is prepared to setup SiteGenesis and RefArch sites - you may want to change that to your actual sites and delete the ones that are not needed). Zip the directory and you'll have 'site-template.zip' installation package. Import it through BM Administration > Site Development > Site Import & Export section.

The following configuration items will be added after you import 'site-template.zip' archive:



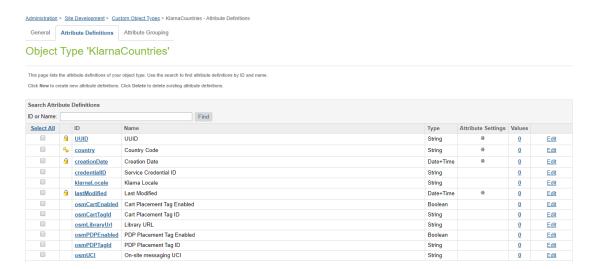
See full list below.

Besides configuration parameters, the following order attributes will be added:



Custom Object Definition:

After importing metadata there will be a site specific custom object to store Klarna countries:



Note: The same custom object is used by Klarna Checkout

The cartridge is selecting the object based on the request locale. E.g. site with locale "de_DE" will use the "DE" custom object. Even if you have locales that are not supported by Klarna Payments we recommend to make a corresponding entry in the custom object for that locale (you can use one of the other endpoints). Thus, on the billing page of the unsupported locale you will have the Klarna Payments widget showing an appropriate message

3.2.2 Cartridge Path

If using the controller based integration, cartridge path should be setup as such under Sites / Manage Sites /

app_storefront_controllers:app_storefront_core:int_klarna_payments_controllers:int_klarn
a_payments

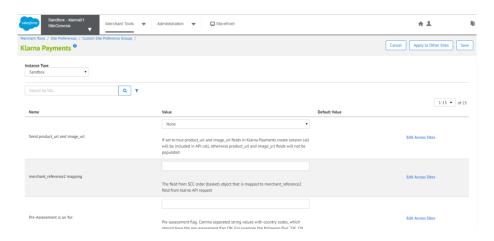


If using pipelines, the cartridge path should be similar to:

app_storefront_pipelines:app_storefront_core:int_klarna_payments_pipelines:int_klarna_p ayments



Also, there is a page in Business Manager where you have to configure Klarna Payments cartridge, you can find it in Site Preferences > Custom Preferences > Klarna_Payments:



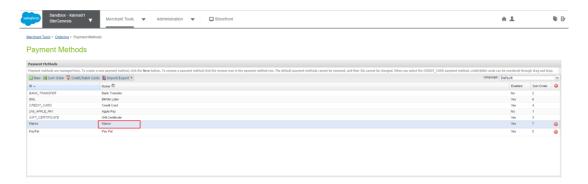
Parameter Name	Attribute ID	Description
Auto-capture	kpAutoCapture	If enabled, a full capture will be attempted automatically prior to order acknowledge. If disabled, the merchant needs to manually capture the order amount from merchant OMS or via Klarna Merchant Portal. Auto-capture is
		possible for orders when virtual card solution is not enabled.
Send product_url and image_url	sendProductAndImageURLs	If set to true product_url and image_url fields in Klarna Payments create session call will be included in API call, otherwise product_url and image_url fields will not be populated.
Merchant Reference 2 Mapping	merchant_reference2_mapping	The field from SCC order (basket) object that is mapped to merchant_reference2 field from klarna API request. Has to be one of the class attributes of SCC LineItemCtnr. Note that for complex data structures result may not always be as expected.

Border Color	kpColorBorder	CSS hex color to be used in
Preference	kpcolor Border	
	kmColorDordorColoctod	Klarna Payments iFrame CSS hex color to be used in
Border Selected Color Preference	kpColorBorderSelected	
	lan ColomBritton	Klarna Payments iFrame
Button Color	kpColorButton	CSS hex color to be used in
Preference	L.C.L. B. H T	Klarna Payments iFrame
Button Text Color	kpColorButtonText	CSS hex color to be used in
Preference		Klarna Payments iFrame
Checkbox Color	kpColorCheckbox	CSS hex color to be used in
Preference		Klarna Payments iFrame
Checkbox	kpColorCheckboxCheckmark	CSS hex color to be used in
Checkmark Color		Klarna Payments iFrame
Preference		
Details Color	kpColorDetails	CSS hex color to be used in
Preference		Klarna Payments iFrame
Header Color	kpColorHeader	CSS hex color to be used in
Preference		Klarna Payments iFrame
Link Color	kpColorLink	CSS hex color to be used in
Preference		Klarna Payments iFrame
Text Color	kpColorText	CSS hex color to be used in
Preference		Klarna Payments iFrame
Secondary Text	kpColorTextSecondary	CSS hex color to be used in
Color Preference		Klarna Payments iFrame
Border Radius	kpRadiusBorder	Size (in pixels) of the border
Preference		radius to be used in Klarna
		Payments iFrame
Attachments	kpAttachments	Flag to swicth on/off the using of
		attachments when creating a
		session. Default is OFF.
Not available	kpNotAvailableMessage	The Klarna Payment not available
message on billing		message on billing page. JSON
page		string holding country code and
, •		corresponding message string.
		For example:
		{
		"GB":"Klarna Payment not
		available",
		"default":"Klarna Payment not
		available"
		}
Virtual Card	kpVCNEnabled	If set to true SFCC will create
Network Enabled		Virtual Card Network settlement
		from every Klarna order. Default
		is false
VCN Public Key ID	kpVCNkeyId	Unique identifier for the public
		key used for encryption of the
		card data
VCN Private Key	vcnPrivateKey	Your VCN 4096 bit RSA Private
	,	Key
VCN Public Key	vcnPublicKey	Your VCN 4096 bit RSA Public Key
23.11 23.10 1107	,	To a to the top of the top to the they

Here is the description of the Site Preferences fields which have to be configured:

3.2.4 Klarna Payments Logo and Payment Option Name

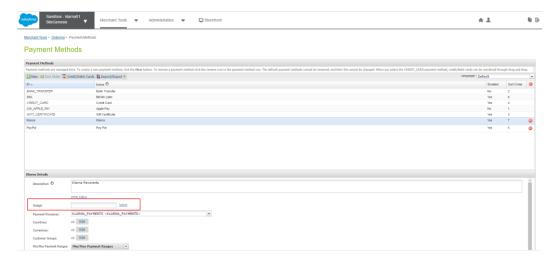
Payment option name can be changed in BM Merchant Tools > Ordering > Payment Methods as shown below.



Payment option name can be localized for the specific country and language through the language dropdown menu on the right, as shown below:



Logo can be changed from BM Merchant Tools > Ordering > Payment Methods. Enter the file name with the logo in the image field on payment method details view (see screenshot below)



After the metadata import you should have Klarna service ready in Administration > Operations > Services like so:



You need to configure Klarna Payments services credentials. Go to Credentials tab as shown below:



You need to edit the existing credentials or create new ones using the credentials provided to you by Klarna and the API URL for the specific location, see for example below:



The Klarna Payments API is accessible through a few different URLS. There are different URLs for testing and for making live purchases as well as different URLs for depending on if you are based in Europe or in the U.S.

Live environment

The API for the European production environment can be found at

https://api.klarna.com/

The API for the U.S. production environment can be found at

https://api-na.klarna.com/

The API for the Oceania production environment can be found at

https://api-oc.klarna.com/

Testing environment

The API for the European Playground/testing environment can be found at

https://api.playground.klarna.com/

The API for the U.S. Playground/testing environment can be found at

https://api-na.playground.klarna.com/

The API for the Oceania Playground/testing environment can be found at

https://api-oc.playground.klarna.com/

3.2.6 *Custom attributes*

ORDER system object has been extended with the following custom attributes:

Parameter Name	Attribute ID	Description
Klarna Payments Order ID	kpOrderID	Holding the Klarna Payments Order ID, if Klarna Payments is used for the specific order
VCN Brand	kpVCNBrand	Holding the Klarna Payments Virtual Card Network card Brand
VCN CSC	kpVCNCSC	Holding the Klarna Payments Virtual Card Network card csc (encrypted)
VCN Expiration Month	kpVCNExpirationMonth	Holding the Klarna Payments Virtual Card Network card expiration month
VCN Expiration Year	kpVCNExpirationYear	Holding the Klarna Payments Virtual Card Network card expiration year
VCN PAN	kpVCNPAN	Holding the Klarna Payments Virtual Card Network card pan (encrypted)
VCN Holder	kpVCNHolder	Holding the Klarna Payments Virtual Card Network card holder name
Is VCN Used	kplsVCN	True if VCN is used for payment of the order, otherwise false

PAYMENT TRANSACTION system object has been extended with the following custom attributes:

Parameter Name	Attribute ID		Descript	ion	
Fraud Status	kpFraudStatus	Klarna status	Payments	order	fraud

3.3 Custom Code

Integration may vary based on the customers' storefront. Site Genesis version 2 is used to demonstrate Klarna Payments integration.

3.3.1 Integration efforts

The following steps are needed to complete the integration:

- Install the cartridges
- Change and import 'site-template.zip' (system objects and custom objects)
- Do the required code changes
- Configure your merchant's Klarna Payments Account in the Klarna back office
- Configure Klarna Payments parameters in Commerce Cloud
- Test
- Create styling for Klarna Widget (optional)

These steps should not require more than a few hours.

Note that the name of your storefront site ID should match the name in the 'site-template.zip', otherwise you will get import errors.

Also, note that the payment methods 'Klarna' and the payment processors 'KLARNA_PAYMENTS' will be created or updated from the 'site-template.zip'.

3.3.2 **Templates modifications**

The following changes should be made regardless of whether a controller or a pipeline integration approach are being used.

To integrate Klarna Payments the following storefront cartridge templates should be updated:

- default/checkout/billing/billing.isml
- default/checkout/summary/summary.isml
- default/checkout/billing/paymentmethods.isml
- default/checkout/shipping/minishipments.isml
- default/components/footer_UI.isml
- default/product/producttopcontentPS.isml
- default/product/productcontent.isml
- default/checkout/cart/cart.isml

default/checkout/summary/summary.isml

Add Code:

Before </isdecorate> closing tag as shown below:

```
cform action="$(URLUtils.https('COsummary-Submit')}" method="post" class="submit-order">
cfieldset7
cfieldset7
cdv class="form-row">
cd class="back-to-cart" href="$(URLUtils.url('Cart-Show'))">
cd class="back-to-cart" href="$(Back-to-cart" href="$(URLUTIls.url('Cart-Show'))">
cd class="back-to-cart" href="$(URLUTIls.url('Cart-Show'
```

default/checkout/billing/billing.isml

Add Code:

<script><isinclude template="/resources/klarnapaymentsresources.isml"/></script>
<script type="text/javascript" src="\${URLUtils.staticURL('/js/klarnapayments.js')}"></script>
<script src=" https://x.klarnacdn.net/kp/lib/v1/api.js" async></script>

Before </isdecorate> closing tag as shown below:

default/checkout/billing/paymentmethods.isml

Add code:

<isif condition="\${paymentMethodType.value === 'Klarna'}">hide</isif>
After <div class="form-row label-inline close to line 18 as shown below:

Add Code:

<isinclude template="klarnapayments/klarnapaymentscategories.isml"/>

After </isloop> Close to line 28 as shown below:

```
| By paymentmethodsisml | By | Clegends | System | System
```

Add Code:

<iscomment>Klarna Payments
</iscomment>

<isinclude template="klarnapayments/klarnapaymentblock.isml"/>

Before </fieldset> closing tag, close to line 150 as shown below:

default/checkout/shipping/minishipments.isml

Add the following code:

<isinclude template="klarnapayments/modules.isml"/>

In the end begining of the file as shown below:

Add the following code:

<iskpaddresshelper p_address="\${shipment.shippingAddress}"/>

After <isminicheckout_address p_address="\${shipment.shippingAddress}"/> as as shown below:

```
<isif condition="${Shipments.size() > 1 && pdict.Basket.productLineItems.size() > 0}"><div class="name">${Resource.ms()}
330 310 320 333 34 35 366 37 38 39 40 411 52 43 440 450 500 570 60 61 62 63 64 65 66 67 68
                                                                                                     is="section-header">
if condition="f(shipment.giftCertificateLineItems.size() > 0)">

{Resource.msg('minishipments.shipping','checkout',null)} < span>${Resource.msg('minishipments.giftcertdelivery | span>$
                                                                                      <a href="$(editUrl)" class="section-header-note">${Resource.msg('global.edit','locale',null)}</a>
$(Resource.msg('cart.store.instorepickup','checkout',null)}
<iselseif condition="$(shipment.shippingAddress!=null is pdict.Basket.productLineItems.size() > 0)"/>
<a href="$(editUrl)" class="section-header-note">${Resource.msg('global.edit','locale',null)}</a>
                                                                                                    ${Resource.msg('minishipments.shippingaddress','checkout',null)}
                                                                                       </isif>
                                                                      </h3>
                                                                       <div class="details">
                                                                                                    Comment:
render the detail section depending on whether this is a physical shipment with products (shipped to an address) or if this is a gift certificate (send via email)
                                                                                      </iscomment>
<isif condition="${shipment.giftCertificateLineItems.size() > 0)">
<isifcondition="${ghipment.giftCertificateLineItems!" var="giftCertLI"
<idv><isprint value="${giftCertLI.recipientName}"/></dv>
<div>(cisprint value="${giftCertLI.recipientName}"/></dv>

                                                                                      <iselseif condition="$(shipment.shippingAddress != null && pdict.Basket.productLineItems.size() > 0)">
                                                                                                                                                                          ress p address="$/shipment shipp:
                                                                                             diskpaddresshelper p_address="$(shipment.shippingAddress)"/>
<isif_condition="$(!empty(shipment.shippingMethod))">
                                                                                                                   (div class="minishipments-method")

<span>{Resource.msq('order.orderdetails.shippingmethod','order',null)}</span>

<span>(span>(sprint value="$(shipment.shippingMethod.displayName)"/></span>

</dl>

                                                                     </d>
</disif>
</div>
                                                             </div>
                                               </isif>
                                </isloop>
 69 </isif>
```

default/components/footer/footer_UI.isml

```
Add Code:
```

```
<isinclude template="klarnapayments/scripts.isml"/>
```

Before <script src="\${URLUtils.staticURL('/js/app.js')}"></script> script tag as shown below:

```
27
28
28
30 <script src="${URLUtils.staticURL('/js/app.js')}"></script>
```

default/product/producttopcontentPS.isml

Add the following code:

```
<isinclude template="klarnapayments/modules.isml"/>
<iskosmpdp p_product="${psProduct}" />
```

, right under the pricing template include as shown below:

default/product/productcontent.isml

Add the following code:

, right under the pricing template include as shown below:

js/pages/product/variant.js

Add the following code:

window.KlarnaOnsiteService = window.KlarnaOnsiteService | | [];

window.KlarnaOnsiteService.push({eventName: 'refresh-placements'});

in the variation update callback, on line 35

```
callback: function () {
    if (SitePreferences.STORE_PICKUP) {
        productStoreInventory.init();
    }
    image.replaceImages();
    tooltip.init();
    window.KlarnaOnsiteService = window.KlarnaOnsiteService || [];
    window.KlarnaOnsiteService.push({eventName: 'refresh-placements'});
}
```

default/checkout/cart/cart.isml

Add the following code:

```
<isinclude template="klarnapayments/modules.isml"/>
```

```
<iskosmcart p_lineitemctnr="${pdict.Basket}" />
```

, right after the <isordertotals>:

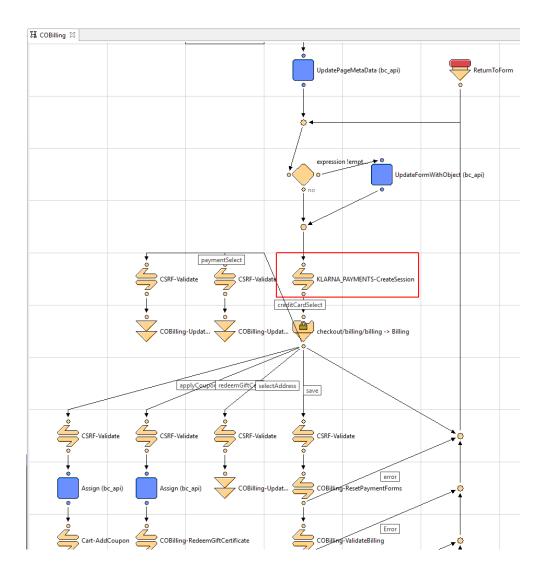
3.3.3 Pipeline modifications

If using a pipeline based SiteGenesis integration, additionally follow the instructions in this chapter. If integrating via the controller based model see next chapter.

To use Klarna Payments cartridge you will need to make the following changes in pipelines.

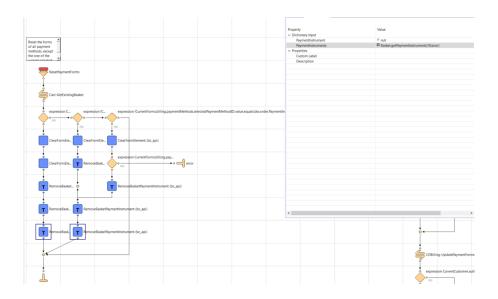
3.3.3.1 **COBilling pipeline**

Go to COBilling pipeline, Start node and add KLARNA_PAYMENTS-CreateSession call node entry point before checkout/billing/billing -> Billing interaction continue node (see screen shot below)



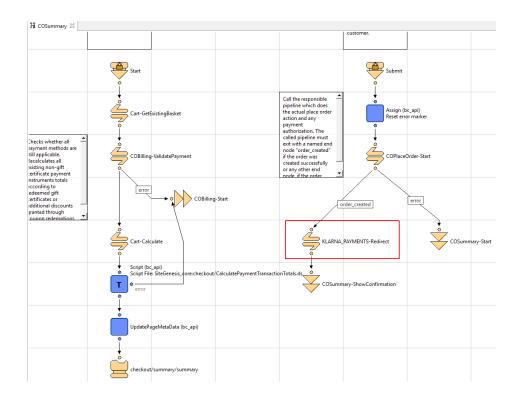
In pipeline COBilling-ResetPaymentForms, add two pipelets 'com.demandware.pipelet.basket.RemoveBasketPaymentInstrument' at the end of the pipeline.

In Dictionary Input 'PaymentInstruments', set it with value: Basket.getPaymentInstruments('Klarna').



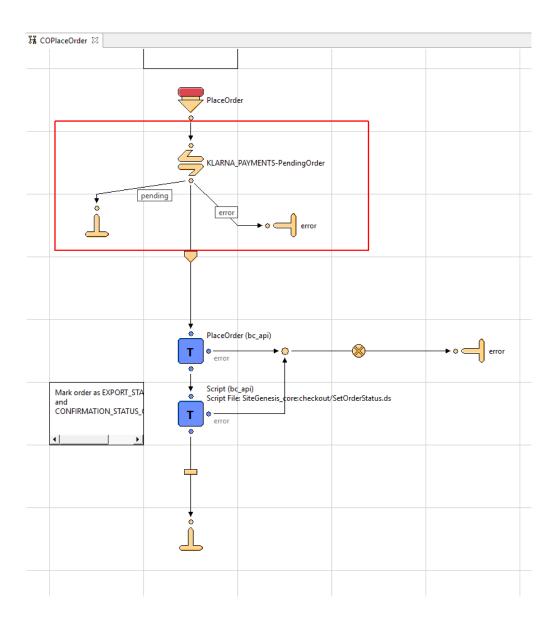
3.3.3.2 **COSummary pipeline.**

Go to COSummary pipeline, Submit node and add KLARNA_PAYMENTS-Redirect call node entry point before COSummary-ShowConfirmation jump node (see screen shot below)



3.3.3.3 **COPlaceOrder pipeline.**

Go to COPlaceOrder pipeline, PlaceOrder node and add KLARNA_PAYMENTS-PendingOrder call node entry point before PlaceOrder script node node (see screen shot below). Create 'pending' and 'error' transitions and end nodes as shown on the screenshot



3.3.4 Controller modifications

If using a controller based SiteGenesis integration, additionally follow the instructions in this chapter. If integrating via the pipeline method please see Pipeline modifications chapter above.

3.3.4.1 **COBilling controller.**

Go to COBilling controller, returnToForm method and add the following code block:

```
try
{
```

```
require('int_klarna_payments_controllers/cartridge/controllers/KLARNA_PAYMENTS.js')
.CreateSession();
} catch( e )
{
    require( 'dw/system/Logger' ).getLogger( 'COBilling.js' ).error( 'Klarna Create Session
Error: {0}', e );
}
```

after pageMeta.update (see screen shot below)

In the method resetPaymentForms(), add the command for the three conditions: cart.removePaymentInstruments(cart.getPaymentInstruments('Klarna'));

```
function resetPaymentForms() {
```

```
var cart = app.getModel('Cart').get();

var status = Transaction.wrap(function () {
    if
    (app.getForm('billing').object.paymentMethods.selectedPaymentMethodID.value.equals('PayPal')) {
        app.getForm('billing').object.paymentMethods.creditCard.clearFormElement();
        app.getForm('billing').object.paymentMethods.bml.clearFormElement();
```

cart.removePaymentInstruments(cart.getPaymentInstruments(PaymentInstrument.METHO D_CREDIT_CARD));

cart.removePaymentInstruments(cart.getPaymentInstruments(PaymentInstrument.METHO D_BML));

// remove Klarna PaymentInstrument

```
cart.removePaymentInstruments(cart.getPaymentInstruments('Klarna'));
    } else if
(app.getForm('billing').object.paymentMethods.selectedPaymentMethodID.value.equals(Pa
ymentInstrument.METHOD CREDIT CARD)) {
      app.getForm('billing').object.paymentMethods.bml.clearFormElement();
cart.removePaymentInstruments(cart.getPaymentInstruments(PaymentInstrument.METHO
D_BML));
      cart.removePaymentInstruments(cart.getPaymentInstruments('PayPal'));
      // remove Klarna PaymentInstrument
      cart.removePaymentInstruments(cart.getPaymentInstruments('Klarna'));
    } else if
(app.getForm('billing').object.paymentMethods.selectedPaymentMethodID.value.equals(Pa
ymentInstrument.METHOD BML)) {
      app.getForm('billing').object.paymentMethods.creditCard.clearFormElement();
      if (!app.getForm('billing').object.paymentMethods.bml.ssn.valid) {
        return false;
      }
cart.removePaymentInstruments(cart.getPaymentInstruments(PaymentInstrument.METHO
D_CREDIT_CARD));
      cart.removePaymentInstruments(cart.getPaymentInstruments('PayPal'));
      // remove Klarna PaymentInstrument
      cart.removePaymentInstruments(cart.getPaymentInstruments('Klarna'));
    }
    return true;
  });
  return status;
3.3.4.2
           COSummary controller.
Go to COSummary controller, submit() method and add the following code block:
try
require('int klarna payments controllers/cartridge/controllers/KLARNA PAYMENTS.js').Red
irect();
} catch( e )
require( 'dw/system/Logger' ).getLogger( 'COSummary.js' ).error( 'Klarna Redirect Error: {0}',
e );
       }
```

before showConfirmation(placeOrderResult.Order) (see screen shot below)

```
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```

3.3.4.3 OrderModel.js

Go to OrderModel.js, placeOrder method and add the following code block:

before var placeOrderStatus = OrderMgr.placeOrder(order); (see screen shot below)

4. Release History

Version	Date	Changes
17.1.0		Initial release
18.1.0		Implement payments endpoint
19.1.0		Added SFRA version.
19.1.1		Updated VCN to use the newest API version
19.1.2		Fix auto capture for the pipeline's cartridge
19.1.3		On-site Messaging updates
		OC endpoint added
19.1.4		New country locales added.
		Minor bug fixes.
		Cartridge templates and forms updated for latest SFRA.