



Klarna Payments

Integration Guide

Version 6.2.1

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Document history

Date	Name	Change
12/04/2019	Peter Posse	First version

ABOUT KLARNA PAYMENTS

General information about Klarna Payments

Klarna offers three different payment methods within the new Klarna KP API via Computop: Invoice and hire purchase (Pay Later & Pay over time) as well as Sofort + secured direct debit (Pay Now). Merchants pass on all the invoice data during the order to the service provider, who then takes over the complete billing and debtor management. That than takes over the complete billing and downstream debtor management. As merchant you get a payment guarantee; no matter what payment method the customer chooses. Thereby your customers get financial flexibility with Klarna, as they can choose themselves between invoice purchase and hire purchase. In the case of purchase by instalment merchants can also specify the instalment amounts and dates of repayment. Merchants can use the billing solution also for their B2B commerce.

Rate payment at the online shop motivates your customers to order high value baskets. This also increases your turnover. Klarna guarantees online consents in seconds for purchases by instalment during the order process. A PostIdent-process is not necessary. Klarna transfers the invoice amount to the merchant and bears the non-payment risk themselves. As merchant you benefit from rapidly available liquidity.

All three payment methods with restrictions of secured direct debit are available in the following countries with their respective domestic currency: Danmark (DKK), Germany (EUR), Finland (EUR), United Kingdom (GBP), Netherlands (EUR), Norway (NOK), Austria (EUR), Sweden (SEK) and USA (USD).

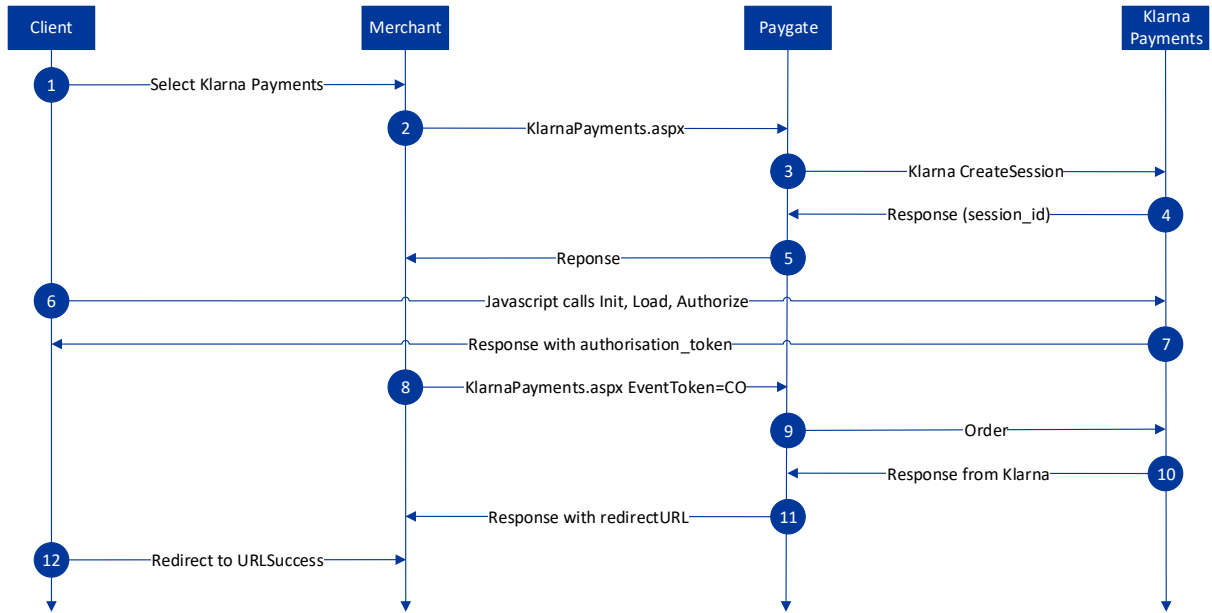
Klarna.

Paygate can handle purchase on account and financing from Klarna. Merchants benefit from a payment guarantee and short payment due dates.

As third possibility Klarna integrated the payment with Sofort transfer and secured direct debit.

Further information can be found on Klarna's website (<https://www.klarna.de>).

Process flow charts



Process flow Klarna Payments

PAYGATE INTERFACE

Definitions

Data formats:

Format	Description
a	alphabetical
as	alphabetical with special characters
n	numeric
an	alphanumeric
ans	alphanumeric with special characters
ns	numeric with special characters
bool	boolean expression (true or false)
3	fixed length with 3 digits/characters
..3	variable length with maximum 3 digits/characters
enum	enumeration of allowed values
dtm	ISODateTime (YYYY-MM-DDThh:mm:ss)

Abbreviations:

Abbreviation	Description
CND	condition
M	mandatory
O	optional
C	conditional

Notice: Please note that the names of parameters can be returned in upper or lower case.

Create Klarna Session

Before Klarna widgets can be loaded a Klarna session must be created. In order to start a Klarna session via server-to-server communication, please go to the following URL:

<https://www.computop-paygate.com/KlarnaPayments.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
TransID	ans..64	M	TransactionID which should be unique for each payment
RefNr	ans..30	O	Unique reference number
Amount	n..12	M	Total amount of the order in the smallest currency unit including taxes and all rebates (e.g. EUR Cent). The amount may not be negative. Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
TaxAmount	n..12	M	Gross amount of value added tax in the smallest currency unit (e.g. EUR Cent). The amount may not be negative. Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
Currency	a3	M	Currency, three characters DIN / ISO 4217, only DKK, EUR, NOK, SEK, GBP and USD permitted
bdCountryCode	a2	M	Country code for the invoicing address, 2 characters according to ISO 3166-1. Presently allowed are Germany <DE>, Austria <AT>, Netherlands <NL>, Denmark <DK>, Sweden <SE>, Norway <NO>, Finland <FI>, Great Britain <GB> and USA <US>.
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
IPAddr	ans..15	M	IP address of the client in the format IPv4 or IPv6
Account	ans..12	O	With Computop it is possible to store details for several Klarna merchant accounts (username and password). Account allows you to control which account data to use. The value of this parameter must be agreed with Computop support.
ArticleList	ans..2048	M	Complete article list of the order. This parameter must be created in JSON format. The individual parameters in JSON format are following: name = Product name (mandatory) quantity = item quantity. The value may not be negative. (mandatory) unit_price = unit price inclusive taxes but without rebates. (mandatory) total_amount = total amount of iarticles inclusive taxes and rebates. (mandatory) image_url = URL for an image that can be embedded later in agreement with Klarna. (max. 1024 characters) merchant_data = "pass-through parameter" (max. 255 characters). Merchant must agree with Klarna what will be transmitted here. product_identifiers.brand = product brand product_identifiers.category_path = path of product category. As separator '>' has to be used. product_identifiers.global_trade_item_number = article number (e.g. EAN, ISBN or UPC). product_identifiers.manufacturer_part_number = manufacturer's number product_url = URL to product image

			<p>quantity_unit = unit of quantity (e.g. kg) reference = article number (e.g. SKU) tax_rate = tax rate as percentage (e.g. 25%). The value may not be negative. total_discount_amount = total amount of rebate. The value may not be negative. total_tax_amount = total amount of taxes. The value may be negative, if type is 'discount'. type = type of item position. Possible entries are <physical>, <discount>, <shipping_fee>, <sales_tax>, <digital>, <gift_card>, <store_credit>, <surcharge></p> <p>Example:</p> <pre> { "order_lines": [{ "image_url": "https://www.exampleobjects.com/logo.png", "merchant_data": "", "name": "Battery Power Pack", "product_identifiers": { "brand": "Intel", "category_path": "Electronics Store > Computers & Tablets > Desktops", "global_trade_item_number": "735858293167", "manufacturer_part_number": "BOXNUC5CPYH" }, "product_url": "https://www.estore.com/products/f2a8d7e34", "quantity": 1, "quantity_unit": "kg", "reference": "19-402-USA", "tax_rate": 0, "total_amount": 1000, "total_discount_amount": 0, "total_tax_amount": 0, "type": "physical", "unit_price": 1000 }] } </pre> <p>Afterwards the article list created in JSON format must be Base64 encoded.</p>
EnhancedData	ans..2048	O	<p>Additional customer and order information for Klarna risk management. Merchant must agree with Klarna which data will be transmitted here. This parameter must be created in JSON format.</p> <p>Example:</p> <pre> { "marketplace_seller_info": [{ "product_category": "Women's Fashion", "product_name": "Women Sweatshirt" }] } </pre> <p>Afterwards the additional information created in JSON format must be Base64 encoded.</p>
Layout	ans..2048	O	<p>Layout parameters for Klarna widgets. This parameter must be created in JSON format.</p> <p>Example:</p> <pre> { "options": { "color_border": "#FF9900", "color_border_selected": "#FF9900", "color_button": "#FF9900", "color_button_text": "#FF9900", "color_checkbox": "#FF9900", "color_checkbox_checkmark": "#FF9900", "color_details": "#FF9900", "color_header": "#FF9900", "color_link": "#FF9900", "color_text": "#FF9900", "color_text_secondary": "#FF9900", "radius_border": "5px" } } </pre> <p>Afterwards the layout parameters created in JSON format must be Base64 encoded.</p>

URLConfirm	ans..256	M	Final URL for order confirmation to which Klarna forwards the customer after the order is successfully created within the Klarna system
URLNotify	ans..256	O	Complete URL which Paygate calls up in order to notify the shop about the payment result. The URL may be called up only via port 443 It may not contain parameters: Use the UserData parameter instead. Processing of PENDING transactions must be activated at Computop as well as Klarna. URLNotify can also be stored with Computop.
PayType	enum	M	Customer selected Klarna payment method. Possible entries are Pay immediately (pay_now), Pay later (pay_later) und Pay in installments (pay_over_time).
Personal details of customer			
DateOfBirth	dtm	O	Date of birth in the format YYYY-MM-DD
Gender	a..15	O	Gender <female> for female, <male> for male
Title	a..12	O	Salutation
SocialSecurityNumber	a..5	O	Private individuals: The last four or five digits of the social security number. Not in DE, AT and NL. Obligatory field in SE, FI, DK with 4-digit value (NNNN). Obligatory field in NO with 5-digit value (NNNN).
PersonID	ans..15	O	National identity number. Is necessary for example for a visa to entry the USA. For that purpose the serial number on the upper right side of the identity card may be used.
LegalForm	ans..50	O	Type of company. Following values are possible: <ul style="list-style-type: none"> - LIMITED_COMPANY - PUBLIC_LIMITED_COMPANY - ENTREPRENEURIAL_COMPANY - LIMITED_PARTNERSHIP_LIMITED_COMPANY - LIMITED_PARTNERSHIP - GENERAL_PARTNERSHIP - REGISTERED_SOLE_TRADER - SOLE_TRADER - CIVIL_LAW_PARTNERSHIP - PUBLIC_INSTITUTION - OTHER
CompanyID	ans..15	O	For companies: Register of Companies number
CompanyOrPerson	a2	O	Indication whether it is e company or a person. <C> for companies, <P> for persons
VatID	ans..15	O	VAT identification number

Parameters for creating a session with Klarna Payments

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ans..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	AUTHORIZE_REQUEST or FAILED

Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support
AccessToken	ans..64	O	Client token from Klarna. In order to be able to subsequently show the Klarna widgets, the Klarna JavaScript-API must be initialized with this token.
PayType	enum	O	Klarna payment method selected by the customer. Possible entries are Pay immediately (pay_now), Pay later (pay_later) and Pay in installments (pay_over_time). The returned value determines which widgets are allowed to be loaded.

Response parameters for creating a session with Klarna Payments

Show Klarna widgets

Klarna uses widgets in order to show customers the possible payment methods. The available payment methods for selecting depend on the previously selected category (see Create Klarna Session, PayType). The widget integration is done with the AccessToken (see Create Klarna Session, AccessToken) and the Klarna JavaScript SDK. How to integrate and initialise the Klarna JavaScript SDK and how to load the widgets is described on Klarna webpage:

<https://developers.klarna.com/documentation/klarna-payments/integration-guide/present-klarna-widget/>

Create order with Klarna

In order to create the order within Klarna system via a server-to-server connection, please use the following URL:

<https://www.computop-paygate.com/KlarnaPayments.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment as reference for the previous initiation
TransID	ans..64	M	TransactionID which should be unique for each payment
RefNr	ans..30	O	Unique reference number
Amount	n..12	M	Total amount of the order in the smallest currency unit including taxes and all rebates (e.g. EUR Cent). The amount may not be negative. Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217
TokenExt	ans..36	M	Authorisation token which is returned from Klarna within JavaScript Authorize-Call

EventToken	enum	M	Defines which Klarna API-Call request will be initiated. For creating a Klarna order the value CNO must be transferred.
RTF	a1	O	For repeat payments (subscriptions): I = Initial payment of a new subscription, R = Routine payment (Recurring). If this is an initial payment of a subscription the value I must be transferred.
RequestReason	a..20	O	Intended usage of „Consumer Token“. Possible value is SUBSCRIPTION .
Note	ans..50	O	Description for the purpose of token (e.g. Abo)

Parameters for creating an order with Klarna

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ns..30	M	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
TransactionID	an12	O	Reference number from Klarna system
BillingAgreementID	ans..50	O	Token-ID (Consumer Token) from Klarna which must be additionally transferred for recurring payments. The value is returned only if request was made with RTF=I .
RedirectURL	ans..256	O	The customer must be forwarded to this URL so that Klarna can place a Cookie. The customer remains unaware of this process.
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for creating an order with Klarna

Create recurring order (Abo) with Klarna

In order to create a recurring order (e.g. Abo) with Klarna, please use the following URL:

<https://www.computop-paygate.com/KlarnaPayments.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
TransID	ans..64	M	TransactionID which should be unique for each payment
RefNr	ans..30	O	Unique reference number
Amount	n..12	M	Total amount of the order in the smallest currency unit including taxes and all rebates (e.g. EUR Cent). The amount may not be negative. Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
TaxAmount	n..12	M	Gross amount of value added tax in the smallest currency unit (e.g. EUR Cent). The amount may not be negative. Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
Currency	a3	M	Currency, three characters DIN / ISO 4217, only DKK, EUR, NOK, SEK, GBP and USD permitted
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
EventToken	enum	M	Defines which Klarna API-Call request will be initiated. For creating a Klarna order the value CNO must be transferred.
BillingAgreementID	ans..50	M	Token-ID (Consumer Token) from Klarna which must be additionally transferred for recurring payments.
RTF	a1	M	For repeat payments (subscriptions): I = Initial payment of a new subscription, R = Routine payment (Recurring). For this request the value R must be transferred.
Account	ans..12	M	With Computop it is possible to store details for several Klarna accounts (username and password). Account allows you to control which account data to use. The value of this parameter must be agreed with Computop support.
ArticleList	ans..2048	M	Complete article list of the order. This parameter must be created in JSON format. The individual parameters in JSON format are following: name = Product name (mandatory) quantity = item quantity. The value may not be negative. (mandatory) unit_price = unit price inclusive taxes but without rebates. (mandatory) total_amount = total amount of iarticles inclusive taxes and rebates. (mandatory) image_url = URL for an image that can be embedded later in agreement with Klarna. (max. 1024 characters) merchant_data = "pass-through parameter" (max. 255 characters). Merchant must agree with Klarna what will be transmitted here. product_identifiers.brand = product brand product_identifiers.category_path = path of product category. As separator '>' has to be used. product_identifiers.global_trade_item_number = article number (e.g. EAN, ISBN or UPC). product_identifiers.manufacturer_part_number = manufacturer's number product_url = URL to product image quantity_unit = unit of quantity (e.g. kg) reference = article number (e.g. SKU) tax_rate = tax rate as percentage (e.g. 25%). The value may not be negative. total_discount_amount = total amount of rebate. The value may not be negative. total_tax_amount = total amount of taxes. The value may be negative, if type is 'discount'. type = type of item position. Possible entries are <physical>, <discount>, <shipping_fee>, <sales_tax>, <digital>, <gift_card>, <store_credit>, <surcharge> Example:

```

{
  "order_lines": [
    {
      "image_url": "https://www.exampleobjects.com/logo.png",
      "merchant_data": "",
      "name": "Battery Power Pack",
      "product_identifiers": {
        "brand": "Intel",
        "category_path": "Electronics Store > Computers & Tablets > Desktops",
        "global_trade_item_number": "735858293167",
        "manufacturer_part_number": "BOXNUC5CPYH"
      },
      "product_url": "https://www.estore.com/products/f2a8d7e34",
      "quantity": 1,
      "quantity_unit": "kg",
      "reference": "19-402-USA",
      "tax_rate": 0,
      "total_amount": 1000,
      "total_discount_amount": 0,
      "total_tax_amount": 0,
      "type": "physical",
      "unit_price": 1000
    }
  ]
}

```

Afterwards the article list created in JSON format must be Base64 encoded.

Parameters for a recurring order (Abo) with Klarna Payments

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ans..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
TransactionID	an12	O	Reference number from Klarna system
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for a recurring order (Abo) with Klarna Payments

Modify invoice and delivery address

Invoice and delivery information was transferred within Klarna widget. As long as no capture is made invoice and/or delivery address can be modified subsequently. For this purpose please use the following URL:

<https://www.computop-paygate.com/KlarnaPayments.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
EventToken	enum	M	Defines which Klarna API-Call request will be initiated. For updating invoice and/or delivery address the value UCA must be transferred.
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Invoicing address			
bdTitle	a..12	O	Salutation
bdFirstName	ans..30	O	First name
bdLastName	ans..30	O	Last name
bdCompany	ans..50	O	Company
bdStreet	a..32	O	Street name and street number
bdAddrAddition	ans..50	O	Address c/o
bdZip	n..5	O	Postcode
bdCity	a..32	O	City
bdRegion	a..32	O	Region
bdCountryCode	a2	O	Country code for the invoicing address, 2 characters according to ISO 3166-1. Presently allowed are Germany <DE>, Austria <AT>, Netherlands <NL>, Denmark <DK>, Sweden <SE>, Norway <NO>, Finland <FI>, Great Britain <GB> and USA <US>.
bdEmail	ans..80	O	E-mail address
bdPhone	n..20	O	Phone number or mobile phone number
Delivery address			
sdTitle	a..12	O	Salutation
sdFirstName	ans..30	O	First name
sdLastName	ans..30	O	Last name
sdCompany	ans..50	O	Company
sdStreet	a..32	O	Street name and street number
sdAddrAddition	ans..50	O	Address c/o
sdZip	n..5	O	Postcode
sdCity	a..32	O	City
sdRegion	a..32	O	Region
sdCountryCode	a2	O	Country code for the invoicing address, 2 characters according to ISO 3166-1. Presently allowed are Germany <DE>, Austria <AT>, Netherlands <NL>, Denmark <DK>, Sweden <SE>, Norway <NO>, Finland <FI>, Great Britain <GB> and USA <US>.
sdEmail	ans..80	O	E-mail address
sdPhone	n..20	O	Phone number or mobile phone number

Parameters for address modification with Klarna Payments

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ans..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for address modification with Klarna Payments

Modify unique reference number

As long as no capture is made the unique reference number which already was sent along within parameter RefNr for creating the Klarna session can be modified subsequently. For this purpose please use the following URL:

<https://www.computop-paygate.com/KlarnaPayments.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
EventToken	enum	M	Defines which Klarna API-Call request will be initiated. For updating the unique reference number the value UMR must be transferred.
RefNr	ans..30	M	New unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for modification of reference number with Klarna Payments

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ans..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for modification of reference number with Klarna Payments

Modify order amount and article list

As long as no capture is made the order amount as well as the whole article list can be modified subsequently. For this purpose please use the following URL:

<https://www.computop-paygate.com/KlarnaPayments.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
TransID	ans..64	M	TransactionID which should be unique for each payment
RefNr	ans..30	O	Unique reference number
Amount	n..12	M	New total amount in the smallest currency unit (e.g. EUR Cent) The amount may not be negative. Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit). Notice: The new amount may not be higher than the amount transferred within the initial request.
Currency	a3	M	Currency, three characters DIN / ISO 4217, only DKK, EUR, NOK, SEK, GBP and USD permitted
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
EventToken	enum	M	Defines which Klarna API-Call request will be initiated. For modifying of order amount and article list the value UEO must be transferred.
ArticleList	ans..2048	M	New article list of the order. This parameter must be created in JSON format.

		<p>The individual parameters in JSON format are following:</p> <p>name = Product name (mandatory)</p> <p>quantity = item quantity. The value may not be negative. (mandatory)</p> <p>unit_price = unit price inclusive taxes but without rebates. (mandatory)</p> <p>total_amount = total amount of iarticles inclusive taxes and rebates. (mandatory)</p> <p>image_url = URL for an image that can be embedded later in agreement with Klarna. (max. 1024 characters)</p> <p>merchant_data = "pass-through parameter" (max. 255 characters). Merchant must agree with Klarna what will be transmitted here.</p> <p>product_identifiers.brand = product brand</p> <p>product_identifiers.category_path = path of product category. As separator '>' has to be used.</p> <p>product_identifiers.global_trade_item_number = article number (e.g. EAN, ISBN or UPC).</p> <p>product_identifiers.manufacturer_part_number = manufacturer's number</p> <p>product_url = URL to product image</p> <p>quantity_unit = unit of quantity (e.g. kg)</p> <p>reference = article number (e.g. SKU)</p> <p>tax_rate = tax rate as percentage (e.g. 25%). The value may not be negative.</p> <p>total_discount_amount = total amount of rebate. The value may not be negative.</p> <p>total_tax_amount = total amount of taxes. The value may be negative, if type is 'discount'.</p> <p>type = type of item position. Possible entries are <physical>, <discount>, <shipping_fee>, <sales_tax>, <digital>, <gift_card>, <store_credit>, <surcharge></p> <p>Example:</p> <pre> { "order_lines": [{ "image_url": "https://www.exampleobjects.com/logo.png", "merchant_data": "", "name": "Battery Power Pack", "product_identifiers": { "brand": "Intel", "category_path": "Electronics Store > Computers & Tablets > Desktops", "global_trade_item_number": "735858293167", "manufacturer_part_number": "BOXNUC5CPYH" }, "product_url": "https://www.estore.com/products/f2a8d7e34", "quantity": 1, "quantity_unit": "kg", "reference": "19-402-USA", "tax_rate": 0, "total_amount": 1000, "total_discount_amount": 0, "total_tax_amount": 0, "type": "physical", "unit_price": 1000 }] } </pre> <p>Afterwards the article list created in JSON format must be Base64 encoded.</p>
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Parameters for modifying order amount and article list with Klarna Payments

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ans..30	O	Unique reference number

MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for modification of order amount and article list with Klarna Payments

Capture

Captures are possible via a Server-to-Server connection. To carry out a complete or partial capture for Klarna Payments via a Server-to-Server connection please use the following URL:

<https://www.computop-paygate.com/capture.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment to be captured
TransID	ans..64	M	TransactionID which should be unique for each payment
Amount	n..12	M	Amount to be captured in the smallest currency unit including taxes and rebates (e.g. EUR Cent). Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit). Notice: It depends on the amount whether a full or partial capture is made.
Currency	a..3	M	Currency code, three digits DIN / ISO 4217 Only DKK, EUR, NOK, SEK, GBP and USD allowed.
RefNr	ns..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
ShippingInfo	ans..2048	O	Delivery information (e.g. tracking data). This parameter must be created in JSON format. <pre>{ "shipping_info": [{ "shipping_company": "DHL US", "shipping_method": "Home", "tracking_number": "63456415674545679874", "tracking_uri": "http://shipping.example/findmypackage?63456415674545679874", "return_shipping_company": "DHL US", "return_tracking_number": "93456415674545679888", "return_tracking_uri": "http://shipping.example/findmypackage?93456415674545679888" }] }</pre> Afterwards the delivery information created in JSON format must be Base64 encoded.
ArticleList	ans..2048	O	Complete article list of the order. This parameter must be created in JSON format. The individual parameters in JSON format are following:

			<p>name = Product name (mandatory)</p> <p>quantity = item quantity. The value may not be negative. (mandatory)</p> <p>unit_price = unit price inclusive taxes but without rebates. (mandatory)</p> <p>total_amount = total amount of articles inclusive taxes and rebates. (mandatory)</p> <p>image_url = URL for an image that can be embedded later in agreement with Klarna. (max. 1024 characters)</p> <p>merchant_data = "pass-through parameter" (max. 255 characters). Merchant must agree with Klarna what will be transmitted here.</p> <p>product_identifiers.brand = product brand</p> <p>product_identifiers.category_path = path of product category. As separator '>' has to be used.</p> <p>product_identifiers.global_trade_item_number = article number (e.g. EAN, ISBN or UPC).</p> <p>product_identifiers.manufacturer_part_number = manufacturer's number</p> <p>product_url = URL to product image</p> <p>quantity_unit = unit of quantity (e.g. kg)</p> <p>reference = article number (e.g. SKU)</p> <p>tax_rate = tax rate as percentage (e.g. 25%). The value may not be negative.</p> <p>total_discount_amount = total amount of rebate. The value may not be negative.</p> <p>total_tax_amount = total amount of taxes. The value may be negative, if type is 'discount'.</p> <p>type = type of item position. Possible entries are <physical>, <discount>, <shipping_fee>, <sales_tax>, <digital>, <gift_card>, <store_credit>, <surcharge></p> <p>Example:</p> <pre> { "order_lines": [{ "image_url": "https://www.exampleobjects.com/logo.png", "merchant_data": "", "name": "Battery Power Pack", "product_identifiers": { "brand": "Intel", "category_path": "Electronics Store > Computers & Tablets > Desktops", "global_trade_item_number": "735858293167", "manufacturer_part_number": "BOXNUC5CPYH" }, "product_url": "https://www.esstore.com/products/f2a8d7e34", "quantity": 1, "quantity_unit": "kg", "reference": "19-402-USA", "tax_rate": 0, "total_amount": 1000, "total_discount_amount": 0, "total_tax_amount": 0, "type": "physical", "unit_price": 1000 }] } </pre> <p>Afterwards the article list created in JSON format must be Base64 encoded.</p>
CompleteType	a3	O	With this parameter during a partial capture it is possible to reverse the remaining amount simultaneously. Possible value <YES>

Parameters for captures with Klarna Payments

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ns..30	O	Unique reference number

MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
InvoiceNr	ans..30	M	Invoice/booking number from Klarna. This number is needed for example for resending the E-Mail with payment and order information.
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for captures with Klarna Payments

Resending an activated invoice

It may happen that a customer hasn't received the E-Mail with payment and order information. This request is possible only if a capture was already made. For resending this E-Mail, please use the following URL:

<https://www.computop-paygate.com/KlarnaPayments.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
EventToken	enum	M	Defines which Klarna API-Call request will be initiated. For resending the E-Mail the value RCC must be transferred.
InvoiceNr	ans..30	M	Invoice/booking number from Klarna which is returned for all captures within response parameter InvoiceNr

Parameters for resending an activated invoice with Klarna Payments

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ans..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for resending an activated invoice with Klarna Payments

Credit with reference and partial credit

Credits (refunds) are possible via a Server-to-Server connection. To carry out a partial or full credit with a reference transaction, please use the following URL:

<https://www.computop-paygate.com/credit.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment to be credited
TransID	ans..64	M	TransactionID which should be unique for each payment
Amount	n..12	M	Total amount to be credited in the smallest currency unit including taxes and rebates (e.g. EUR Cent). Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit). Notice: It depends on the amount whether a full or partial credit is made.
Currency	a..3	M	Currency code, three digits DIN / ISO 4217 Only DKK, EUR, NOK, SEK, GBP and USD allowed.
RefNr	ns..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for credits of payments with Klarna Payments

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	Merchant's transaction number
RefNr	ns..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm



Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
InvoiceNr	ans..30	M	Number of invoice/credit note from Klarna Payments
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for credits of payments with Klarna Payments

Reversal

Reversals are possible via a Server-to-Server connection. With this request merchants can reverse the total authorisation amount in case of no capture was made or can reverse the remaining authorisation amount if a partial capture was already made. For this purpose please use the following URL:

<https://www.computop-paygate.com/reverse.aspx>

Notice: For security reasons, Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment to be credited
TransID	ans..64	M	TransactionID which should be unique for each payment
Amount	n..12	M	Amount to be credited in the smallest currency unit including taxes and rebates (e.g. EUR Cent). Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit). Notice: If no capture was made the amount must equals the previously authorised amount. If a partial capture already was made the amount must equals the remaining authorised amount.
Currency	a..3	M	Currency code, three digits DIN / ISO 4217 Only DKK, EUR, NOK, SEK, GBP and USD allowed.
RefNr	ans..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for reversal of payments with Klarna Payments

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate

TransID	ans..64	M	Merchant's transaction number
RefNr	ns..30	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
Status	a..50	M	OK or FAILED
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)
CodeExt	ans..50	O	Error code from Klarna, if agreed with Computop support
ErrorText	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for reversal of payments with Klarna Payments

BATCH PROCESSING VIA THE INTERFACE

Basic information about using Batch files and about their structure can be found in the Batch Manager manual.

This section describes the parameters which must be transferred within the data set (**Record**) for executing a payment with Klarna Payments and which information can be found within the response file about the payment status.

When capturing there is a need to differentiate between complete and partial activation requests. In the case of part capturing you need also to transfer the article list with <ArticleList>. The <ArticleList> parameter is also required if a partial credit is made on a full activation. The two parameters <ArticleList> and <InvNo> are also required in the case of a partial credit on a partial activation. All additional parameters are also returned in the response file.

Following table gives an overview of all batch versions that are possible for a specific action and their specialities:

Action	Version	Description
Capture	1.0 / 2.0	Standard version without return of parameter Code
	1.x / 2.x	with RefNr (valid for all versions other than 1.0)
Credit	1.0 / 2.0	Standard version without return of parameter Code
	1.x / 2.x	with RefNr (valid for all versions other than 1.0)
Reverse	1.0 / 2.0	Standard version without return of parameter Code
	1.x / 2x.	with RefNr (valid for all versions other than 1.0)

Description of the possible batch versions

The structure for a payment with Klarna Payments within a Batch file to be submitted is the following:

```

HEAD,<MerchantID>,<Date>,<Version>
KLARNAPM,CAPTURE,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<InvNo>
KLARNAPM,CAPTURE,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<ArticleList>
KLARNAPM,CREDIT,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
KLARNAPM,CREDIT,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<ArticleList>
KLARNAPM,REVERSE,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
FOOT,<CountRecords>,<SumAmount>
    
```

The following table describes the individual fields and values used within the data set (record) in the batch file:

Parameter	Format	CND	Description
Type	a..11	M	HEAD for Header, FOOT for Footer, KLARNA for Klarna Payments
Action	a..20	M	The parameter Action defines the type of transaction: Capture Credit Reverse (cancellation)
Amount	n..12	M	Amount in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
Currency	a3	M	Currency code, three digits DIN / ISO 4217

TransID	ans..64	M	TransactionID which should be unique for each payment
RefNr	ns..30	O	Unique reference number
PayID	an32	M	ID for this transaction given by Paygate
InvNo	ans..30	O	Invoice number for a part activation or part credit. Longest InvNo so far had 17 digits.

Description of fields within the record for Batch files

The record area within the response file for Batch transactions looks as follows:

```

HEAD,<MerchantID>,<Date>,<Version>
KLARNAPM,CAPTURE,<Amount>,<Currency>,<TransID>,( <RefNr>,<PayID>,<InvNo>,<Sta-
tus>,<Code>
KLARNAPM,CAPTURE,<Amount>,<Currency>,<TransID>,( <RefNr>,<PayID>,<Arti-
cleList>,<Status>,<Code>
KLARNAPM,CREDIT,<Amount>,<Currency>,<TransID>,( <RefNr>,<PayID>,<Status>,<Code>
KLARNAPM,CREDIT,<Amount>,<Currency>,<TransID>,( <RefNr>,<PayID>,<Arti-
cleList>,<Status>,<Code>
KLARNAPM,REVERSE,<Amount>,<Currency>,<TransID>,( <RefNr>,<PayID>,<Status>,<Code>
FOOT,<CountRecords>,<SumAmount>

```

The following table describes the response parameters which the Batch Manager saves in the Record area for each transaction (standard parameters not explained here, such as <TransID> or <RefNR> and request parameters are returned unchanged and correspond to the call as specified before):

Parameter	Format	CND	Description
Action	a..20	M	The parameter Action defines the type of transaction: Capture Credit Reverse (cancellation)
PayID	an32	M	ID for this transaction given by Paygate
Status	a..50	M	OK or FAILED
Code	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from https://www.computop.com/downloads)

Description of result parameters within the record for Batch files