



# Klarna

## Integration Guide

Version 6.2.3

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## Document history

Date	Name	Change
29.03.2018	Peter Posse	AnnualSalary removed
08.12.2017	Peter Posse	New parameters bdAddrAddition, sdAddrAddition and ... added
18.07.2017	Peter Posse	ShippingDate modified
01.06.2017	Peter Posse	ShippingData added for capture.aspx
04.10.2016	Peter Posse	First version based on Paygate Manual 6.10

# ABOUT KLARNA

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## General information about Klarna

With Klarna a merchant can provide a full invoice and hire purchase service. 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 debtor management. As merchant you get a payment guarantee; your customers gain financial flexibility with Klarna, as they can choose between invoice purchase and hire purchase. In the case of purchase by instalment merchants can also specify the instalment amounts.

Rate payment at the online shop motivates customers to order higher 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.

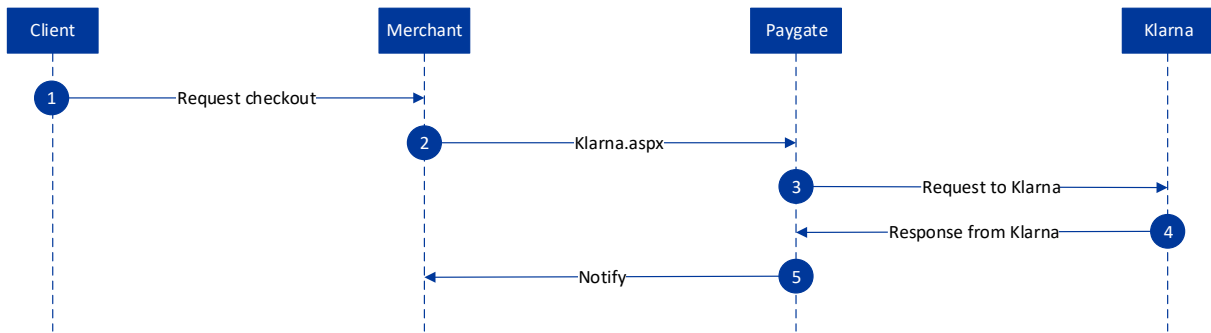
Klarna already offers invoice purchase and hire purchase in six European countries: Germany, the Netherlands, Denmark, Sweden, Finland and Norway.

The Klarna logo is displayed in a large, bold, black sans-serif font.

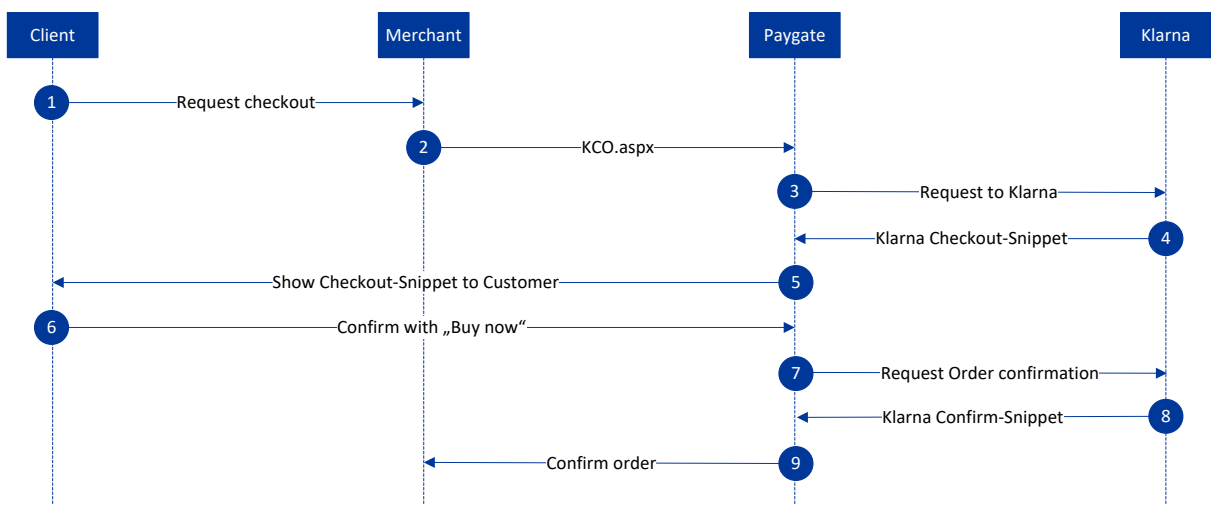
Paygate can handle purchase on account and financing from Klarna. Merchants benefit from a payment guarantee and short payment due dates in several European countries (DE, NL, DK, FI, SE, NO). Klarna Checkout simplifies the checkout process for all terminals. The customer only needs to supply email address and post code during the payment process. Klarna manages the credit check and assumes the risk in case of non-payment. Following completion of the purchase, which by default is a purchase on account, payment can alternatively be made by credit card, direct debit or direct transfer.

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

## Process flow charts



Process flow Klarna



Process flow Klarna Checkout

# PAYGATE INTERFACE

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## 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-DDDhh:mm:ss)

Abbreviations:

Abbreviation	Description
CND	condition
M	mandatory
O	optional
C	conditional

**Notice:** The names of parameters can be returned in upper or lower case.

## Klarna invoice and hire purchase

This chapter describes how to reserve a Klarna payment. Following successful reservation you can capture Klarna payments in the case of delivery or if necessary credit them. Additionally you can partly activate Klarna reservations and in this way set the date of payment for the customer.

In order to execute a Klarna payment via server-to-server communication, please go to the following URL:

<https://www.computop-paygate.com/Klarna.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
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>Amount</b>	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).
<b>Currency</b>	a3	M	Currency, three characters DIN / ISO 4217, only DKK, EUR, NOK, SEK permitted
<b>URLNotify</b>	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 <b>UserData</b> parameter instead.
<b>OrderDesc</b>	ans..768	M	<b>Obligatory parameters, invoice data</b> in angle brackets: Quantity, article no., title, price, article flag. Discount and VAT are indicated as percentages. A data record with quantity, title, price etc. is to be specified for each article. Discount is deducted from the price. Fields are separated by “;” and invoice items by “+”. Prices are transferred in the smallest currency unit without a decimal point: <qty>;<artno>; <title>; <price>; <vat>;<discount>;<ArticleFlag> +  <b>Example:</b> 25;12345;Ball-point pen;890;19;1.5;0 + 1;11223;Shipping costs;490;19;0;8  <b>Values and effect of the &lt;ArticleFlag&gt;:</b> <0> no flag, <1> quantity in 1/1000, <2> quantity in 1/100, <4> quantity in 1/10, <8> article is a shipping charge, <16> article is a handling charge, <32> price includes VAT. In order to report several ArticleFlags to Klarna, you have to transmit the sum of the individual ArticleFlags.
<b>Reference</b>	ans..60	OC	Optional for private entities, mandatory for companies, e.g. contact for purchasing. Messages and important information can be given to the customers on the invoice via this parameter.
<b>RefNr</b>	ans..30	O	Unique reference number for accounting
<b>OrderId1</b>	ans..	O	Appears as a reference in the merchant's account file and on the customer's invoice
<b>OrderID2</b>	ans..	O	Appears as a reference in the merchant's account file
<b>Phone</b>	n..20	OC	Purchaser's telephone number. Mandatory if parameter MobileNr is not transmitted
<b>Account</b>	ans..12	O	With Computop it is possible to store details for several Klarna accounts (Estore-ID and Shared Secret). <b>Account</b> allows you to control which account data to use. If the parameter is not transferred, the standard saved account data is used.
<b>Invoicing address</b>			
<b>bdFirstName</b>	ans..30	OC	Obligatory for private persons: First name of the customer Companies: May not be transferred!
<b>bdLastName</b>	ans..30	OC	Obligatory for private persons: Last name Companies: Name of the company
<b>bdAddrAddition</b>	ans..80	O	Delivery instructions (c/o) in the invoicing address
<b>bdStreet</b>	a..32	M	Street name in the invoicing address
<b>bdStreetNr</b>	ans..5	MC	Street number in the invoicing address. Optional if parameter bdCountryCode has the value DEU or NLD. Otherwise you can transmit street and street number together within the parameter bdStreet.
<b>bdZip</b>	n..5	M	Postcode in the invoicing address

<b>bdCity</b>	a..32	M	Town/city in the invoicing address
<b>bdCountryCode</b>	a3	M	Country code for the invoicing address, 3 characters according to ISO 3166-1. Germany, Austria, the Netherlands, Denmark, Sweden, Norway and Finland are currently permitted.
<b>Delivery address</b>			
<b>sdFirstName</b>	ans..30	C	Obligatory for private persons: First name of the customer Companies: May not be transferred!
<b>sdLastName</b>	ans..30	C	Obligatory for private persons: Last name Companies: Name of the company
<b>sdAddrAddition</b>	ans..80	O	Delivery instructions (c/o) in the delivery address
<b>sdStreet</b>	a..32	M	Street name in the delivery address
<b>sdStreetNr</b>	ans..5	M	Street number in the delivery address. Optional if parameter sdCountryCode has the value DEU or NLD. Otherwise you can transmit street and street number together within the parameter sdStreet.
<b>sdZip</b>	n..5	M	Postcode in the delivery address
<b>sdCity</b>	a..32	M	Town/city in the delivery address
<b>sdCountryCode</b>	a3	M	Country code for the delivery address, 3 characters according to ISO 3166-1. Germany, Austria, the Netherlands, Denmark, Sweden, Norway and Finland are currently permitted.
<b>Email</b>	ans..80	M	Email address of the customer
<b>MobileNr</b>	n..20	OC	Customer's mobile telephone number. Mandatory if parameter Phone is not transmitted
<b>DateOfBirth</b>	ans10	C	Private persons: Date of birth in the format YYYY-MM-DD Optional if SocialSecurityNumber is transmitted completely. Companies: May not be transferred!
<b>Gender</b>	a1	C	Private persons: Gender: <f> for female, <m> for male. Obligatory parameter if bdCountryCode has the value DEU, AUT or NLD. Optional if SocialSecurityNumber is transmitted completely. Companies: May not be transferred!
<b>SocialSecurityNumber</b>	ans..11	MC	Private persons: Part 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 (nnnnn). Can also be transferred in full – 10 or 11 characters – in the following formats. In this case it is not necessary to include the parameters DateOfBirth and Gender. SE: YYMMDD-NNNN FI: DDMMYY-NNNN DK: DDMMYYNNNN NO: DDMMYYNNNNN Companies: Register of Companies number
<b>IPAddr</b>	ans15	M	Customer's IP address in IPv4 or IPv6 format
<b>CompanyOrPerson</b>	a1	M	<F> for companies, <P> for persons
<b>KlarnaAction</b>	n..	M	Action code specifies purchase on invoice or hire purchase. <-1> is purchase on invoice. Values for hire purchase depend on running times and monthly instalments, which were agreed upon between Klarna and the merchant.
<b>InvoiceFlag</b>	ans..4	M	Invoice flag: <0> no flag (default), <2> test invoice, <4> dispatch by post, <8> dispatch by e-mail, <16> partial activation of the invoice, <512> telephone transaction, <1024> pin dispatch to customers
<b>EnhancedData</b>	ans..1024	O	Additional customer and order information for Klarna risk management. Which data are submitted here has to be agreed between Klarna and the merchant. This parameter has to be submitted in JSON format. Example:



			<pre> {   "SimpleHistory",   [     {       "UniqueAccountIdentifier",       "23185099"     },     {       "AccountRegistrationDate",       "2017-07-09 21:49:33"     },     {       "ShoppedBefore",       "Yes"     }   ] } </pre>
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Afterwards the additional information in JSON format must be Base64 encoded.

Customer history			
<b>PayType</b>	ans..30	O	Payment method: Credit card, Direct banking, Other invoicing not Klarna, SMS, other payment option
<b>NumberPaidPurchases</b>	n..12	O	Number of successful purchases
<b>TotalAmount</b>	n..12	O	Total amount of successful purchases
<b>DateOfLastPaidPurchase</b>	ans..16	O	Date and time of the last successful purchase
<b>DateOfFirstPaidPurchase</b>	ans..16	O	Date and time of the first successful purchase
<b>HttpReferrer</b>	ans..256	O	Website visited by the customer before the purchase
<b>UserAgent</b>	ans..30	O	Version of the browser used by the customer
<b>ScreenResolution</b>	ans..30	O	Resolution on customer's screen at the moment of purchase
<b>CookiesEnabled</b>	a1	O	Cookies allowed? Y/N
<b>AccountId</b>	ans..30	O	Unique name/number to identify the specific customer account
<b>RegistrationDate</b>	ans..16	O	Date and time when the customer has created the account
<b>ShoppedBefore</b>	a..5	O	already shopped: "True" or "False"
<b>DeliveryMethod</b>	a..30	O	Express, Intangible, Store, Other

Parameters for payments with Klarna

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

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!

<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>CodeExt</b>	n..10	O	Error code from Klarna, if agreed with Computop support
<b>ErrorText</b>	ans..1024	O	Error text from Klarna, if agreed with Computop support
<b>RefNr</b>	ns..30	O	Unique reference number for accounting
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>RNo</b>	ans..255	M	Reservation number: is returned on reservation (authorisation).
<b>InvNo</b>	ans..30	M	Invoice number: is returned on activation (capture). Up to now largest InvNo was 17-digit. With following URL you can download Packing Slips from Klarna: <a href="https://online.klarna.com/packslips/{InvNo}.pdf">https://online.klarna.com/packslips/{InvNo}.pdf</a>

Result parameters for Klarna payments

You can additionally send an invoice to the end customer by email. Enter the following URL to do this:

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

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.

Parameters for Klarna email invoice

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

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>RefNr</b>	ns..30	M	Merchant's unique reference number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )

Result parameters for Klarna email invoice

## Klarna address request

With a snippet, you can request the addresses stored by Klarna. Enter the following URL to do this:

<https://www.computop-paygate.com/KlarnaAddress.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
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ans..30	O	Unique reference number of merchant (e.g. order number)
<b>Currency</b>	a3	M	Currency, 3 characters DIN / ISO 4217, presently only SEK allows (for Sweden)
<b>IPAddr</b>	ans15	M	Customer's IP address in IPv4 or IPv6 format
<b>bdCountryCode</b>	a3	M	Country code 3 characters according to ISO-3166-1. Presently only SWE is allowed (for Sweden).
<b>SocialSecurityNumber</b>	ans..11	M	Private persons: Social security number 10- or 11-digits in the following format: YYMMDD-NNNN Companies: Register of Companies number

Parameters for Klarna snippet for address request

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

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>RefNr</b>	ns..30	M	Merchant's unique reference number
<b>AddressFeature</b>	ans..	M	Returned addresses have the following structure: <b>Private persons</b> with 6 values: First name;Last name;Street & street number;Postcode;Town;Country code <b>Companies</b> with 5 values: Company name;Street & street number;Postcode;Town;Country code Individual address details are separated by a ";" and several addresses are separated by a "+".
<b>CodeExt</b>	ans..10	O	Error code from Klarna, if agreed with Computop support
<b>ErrorText</b>	ans..1024	O	Error text from Klarna, if agreed with Computop support

Response parameters for Klarna snippet for address request

## Klarna Checkout

This chapter describes how you can request a snippet for Klarna Checkout and confirm a transaction or update to a current order.

Enter the following URL in order to request the snippet for Klarna Checkout:

<https://www.computop-paygate.com/KCO.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
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>Amount</b>	n..12	M	Total gross amount in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a3	M	Currency, three characters DIN / ISO 4217, presnetly only EUR, NOK, SEK permitted
<b>RefNr</b>	ans..30	O	Unique reference number of merchant (e.g. order number)
<b>PurchaseCountryCode</b>	a2	M	Country code 2 characters according to ISO-3166-1. DE (Germany), FI (Finland), NO (Norway) and SE (Sweden) are permitted at present.
<b>IPAddr</b>	ans15	M	Customer's IP address in IPv4 or IPv6 format
<b>ArticleList</b>	ans..2048	M	<b>Article list:</b> quantity, article no., designation, unit price including VAT, tax rate, discount percentage, type Possible values for type: - physical - shipping_fee - discount VAT and discount must be transferred as follows: - 19% VAT converts to 19 - 13.57% discount converts to 13.57 Discount is deducted from the price. Fields are separated by ";" and articles by "+". Prices are transferred in the smallest currency unit without a decimal point: <b>Example:</b> 1; 12345;ball-point pen;890;19;13.57;physical + 1; SHIPPING;shipping costs;490;19;0;shipping_fee
<b>URLCheckout</b>	ans..256	M	Complete URL of the checkout page of the shop on which the customer sees the Klarna Checkout snippet
<b>URLConfirm</b>	ans..256	M	Complete URL of the order confirmation page of the shop on which the customer is returned from Klarna after completion of the purchase
<b>URLTerms</b>	ans..256	M	Complete URL of the Terms & Conditions page of the shop. <b>Notice:</b> In case of a purchase in Germany, German law stipulates that there must be a direct link to the right of cancellation in the checkout. You should make sure that the following anchor leads to the cancellation right on your Terms & Conditions page: <a name="cancellation_right">Cancellation right</a> The anchor must be called "cancellation_right".
<b>URLNotify</b>	ans..256	M	Full URL, to which a separate POST request is sent, which is actuated by clicking on "Buy now" on the Klarna Checkout Snippet. This request acts as confirmation that the merchant has received and generated the order. The request must be answered with "OK" or "NOK" in the HTTP message body. OK means the order has been received and created. NOK means the order could not be

			created. This POST request receives the same response parameters as the request for the Klarna confirmation snippet.
Invoicing address (optional)			
<b>bdSalutation</b>	a4	OC	Salutation (Germany only). Possible values "Mr" and "Ms".
<b>bdFirstName</b>	ans..30	O	First name of the customer
<b>bdLastName</b>	ans..30	O	Last name of the customer
<b>bdAddrAddition</b>	ans..50	O	Address addition (company name or c/o)
<b>bdStreet</b>	a..32	O	Street name in the invoicing address
<b>bdStreetNr</b>	ans..5	O	Street number in the invoicing address
<b>bdZip</b>	n..5	O	Postcode in the invoicing address
<b>bdCity</b>	a..32	O	Town/city in the invoicing address
<b>bdCountryCode</b>	a2	O	Country code 2 characters according to ISO-3166-1. DE (Germany), FI (Finland), NO (Norway) and SE (Sweden) are permitted at present.
<b>DateOfBirth</b>	ans10	OC	Date of birth in the format YYYY-MM-DD (Germany only)

Parameters for Klarna Checkout snippet

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

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>RefNr</b>	ns..30	M	Unique reference number for accounting
<b>Snippet</b>	a..1024	M	The Klarna Checkout snippet as HTML code, which you must integrate in a DIV. For desktops the width should be at least 750 pixels. For smartphones the width should be 100% of browser window without background or margins.

Result parameters for Klarna Checkout snippet

You can now confirm a transaction or update a current order. Enter the following URL to do this:

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

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.

<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ans..30	M	Merchant's unique reference number
<b>Amount</b>	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).
<b>Currency</b>	a3	M	Currency, three characters DIN / ISO 4217, presnetly only EUR, NOK, SEK permitted
<b>ArticleList</b>	ans..2048	O	<b>Article list:</b> (in order to update an active order) quantity, article no., designation, unit price including VAT, tax rate, discount percentage, type Possible values for type: - physical - shipping_fee - discount VAT and discount must be transferred as follows: - 19% VAT converts to 19 - 13.57% discount converts to 13.57 Discount is deducted from the price. Fields are separated by ";" and articles by "+". Prices are transferred in the smallest currency unit without a decimal point: <b>Example:</b> 1; 12345;ball-point pen;890;19;13.57;physical + 1; SHIPPING;shipping costs;490;19;0;shipping_fee

Parameters for Klarna confirmation snippet

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

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>RefNr</b>	ns..30	M	Merchant's unique reference number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>Invoicing address</b>			
<b>bdSalutation</b>	a4	M	Salutation of the customer
<b>bdFirstName</b>	ans..30	M	First name of the customer
<b>bdLastName</b>	ans..30	M	Last name of the customer
<b>bdAddrAddition</b>	ans..50	O	Address addition (company name or c/o)
<b>bdStreet</b>	a..32	M	Customer's street
<b>bdStreetNr</b>	ans..5	M	Customer's street number
<b>bdZip</b>	n..5	M	Postcode of the customer
<b>bdCity</b>	a..32	M	Customer's location
<b>bdCountryCode</b>	a2	M	Country code 2 characters according to ISO-3166-1. DE (Germany), FI (Finland), NO (Norway) and SE (Sweden) are permitted at present.
<b>bdEmail</b>	ans..80	M	Email address of the customer

<b>bdPhone</b>	n..20	M	Customer's phone number
<b>Delivery address or pack station</b>			
<b>sdSalutation</b>	a4	M	Salutation of the customer
<b>sdFirstName</b>	ans..30	M	First name of the customer
<b>sdLastName</b>	ans..30	M	Last name of the customer
<b>sdAddressAddition</b>	ans..50	OC	if delivery address: Address addition (company name or c/o) Mandatory, if pack station: 8-digit post number
<b>sdStreet</b>	a..32	M	Customer's street or pack station
<b>sdStreetNr</b>	ans..5	M	Customer's street number oder 3-digit number of pack station
<b>sdZip</b>	n..5	M	Postcode of the customer
<b>sdCity</b>	a..32	M	Customer's location
<b>sdCountryCode</b>	a3	M	Country code 2 characters according to ISO-3166-1. DE (Germany), FI (Finland), NO (Norway) and SE (Sweden) are permitted at present.
<b>sdEmail</b>	ans..80	M	Email address of the customer
<b>sdPhone</b>	n..20	O	Customer's phone number
<b>Additional customer data</b>			
<b>RNo</b>	ans..255	M	Reservation number: is returned on reservation (authorisation).

Result parameters for Klarna confirmation snippet

## Capture

Captures are possible via a Server-to-Server connection. To carry out a Capture for Klarna 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
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment to be captured
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>Amount</b>	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).
<b>Currency</b>	a..3	M	Currency code, three digits DIN / ISO 4217
<b>RefNr</b>	ns..30	O	Merchant's unique reference number
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>OrderDesc</b>	ans..2048	OC	Only in case of Klarna partial activation: Description of the captured articles: Quantity, article no., title, price, article flag. Indicate discount and VAT as percentages. Separate fields with ';' and invoice items with '+'. Indicate prices without comma in the smallest currency unit: <qty>;<artno>; <title>; <price>; <vat>;<discount>;<ArticleFlag> +  Example: 25;12345;Ball-point pen;890;19;1.5;0 +

			1;11223;Shipping costs;490;19;0;8  Values and effect of the <ArticleFlag>: <0> no flag, <1> quantity in 1/1000, <2> quantity in 1/100, <4> quantity in 1/10, <8> article is a shipping charge, <16> article is a handling charge, <32> price includes VAT. In order to report several ArticleFlags to Klarna, you have to transmit the sum of the individual ArticleFlags.
<b>ShippingData</b>	ans..768	O	Tracking data: TrackingNr, TrackingURL, shipping company, shipping method. The TrackingURL must be URL-encoded. For each Tracking dataset TrackingNr, TrackingURL, shipping company and shipping method must be given. Fields are separated by ";" und datasets are separated by "+": TrackingNr;TrackingURL;shipping company;shipping method+TrackingNr;TrackingURL;shipping company;shipping method Possible values for shipping method are: store_pick_up: An online order is picked up in the merchant's shop. home_delivery: Goods are sent by an external shipping company directly to the address of the customer. This can be a traceable or a non-traceable shipping. registered_box: Goods are sent to a registered packing station of the customer. Example: DHL Packing station. unregistered_box: Good are sent to an unregistered packing station. Examples: Itella smartpost, Hermes PaketShop pick_up_point: Goods are sent to a manned pick-up point by an external shipping company. External personnel hands over goods to the customer. own_delivery: Goods are sent via a merchant owned delivery service directly to the customer. Example: Deliveries of flowers and food.

Parameters for Klarna captures

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK, CAPTURE_REQUEST or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>RefNr</b>	ns..30	M	Merchant's unique reference number
<b>InvNo</b>	ans..30	M	Invoice number: is returned on activation (capture). With following URL you can download Packing Slips from Klarna: <a href="https://online.klarna.com/packslips/{InvNo}.pdf">https://online.klarna.com/packslips/{InvNo}.pdf</a>

Result parameters for Klarna captures

## Credit with reference and partial credit

Credits (refunds) are possible via a Server-to-Server connection. For a Credit with reference to a capture the amount of the Credit is limited to the amount of the previous capture. To carry out a 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
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment to be credited
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>Amount</b>	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).
<b>Currency</b>	a..3	M	Currency code, three digits DIN / ISO 4217
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>OrderDesc</b>	ans..2048	OC	<p><b>Mandatory only for Klarna partial credit.</b> Description of the credited articles: Quantity, article no., title, price, VAT and discount as percentages, article flag. Separate fields with ';' and invoice items with '+'. Indicate prices without comma in the smallest currency unit: &lt;qty&gt;;&lt;artno&gt;; &lt;title&gt;; &lt;price&gt;; &lt;vat&gt;;&lt;discount&gt;;&lt;ArticleFlag&gt; +</p> <p>Example: 25;12345;Ball-point pen;890;19;1.5;0 + 1;11223;Shipping costs;490;19;0;8</p> <p>Values and effect of the &lt;ArticleFlag&gt;: &lt;0&gt; no flag, &lt;1&gt; quantity in 1/1000, &lt;2&gt; quantity in 1/100, &lt;4&gt; quantity in 1/10, &lt;8&gt; article is a shipping charge, &lt;16&gt; article is a handling charge, &lt;32&gt; price includes VAT.</p> <p>In order to report several ArticleFlags to Klarna, you have to transmit the sum of the individual ArticleFlags.</p> <p>With Klarna you can capture additional articles later by preceding them with an add.; for example: 1;22222;Notebook;100;19;0;32 + add:1;77777;Protector;100;19;0;32</p>
<b>CredNo</b>	ans..	O	Credit number. Will be set to "0" if not transmitted.
<b>InvNo</b>	ans..30	OC	<p>Invoice number which is returned for partial or total activation. Up to now largest InvNo was 17-digit.</p> <p>Obligatory for credit in reference to partial activation: After a partial activation only partial credits are possible. Therefore the invoice number (InvNo) received for partial activation has to be transferred as reference.</p>

Parameters for credits of Klarna payments

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )



<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RNo</b>	ans..255	O	Reservation number form the reservation
<b>InvNo</b>	ans..30	O	Invoice number, returned on full or partial activation (capture). Longest InvNo so far had 17 digits.

Result parameters for credits of Klarna payments

## Reversal and Updating

To cancel a transaction with Klarna or to update a previous reservation, 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
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment to be reverted
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>Amount</b>	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).
<b>Currency</b>	a..3	M	Currency code, three digits DIN / ISO 4217
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>OrderDesc</b>	ans..768	O	<b>Important for an update:</b> As a result of this the previously reserved article list is completely replaced by the attached new article list. Details about the structuring of the article list, see above when accessing Klarna.

Parameters for reversals of Klarna payments

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Amount</b>	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).
<b>Currency</b>	a3	M	Currency code, three digits DIN / ISO 4217
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!

<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
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Result parameters for reversal of 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 Klarna payment 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 <OrderDesc>. The <OrderDesc> parameter is also required if a partial credit is made on a full activation. The two parameters <OrderDesc> 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
<b>Capture</b>	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)
<b>Credit</b>	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)
<b>Reverse</b>	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 Klarna payment within a Batch file to be submitted is the following:

```
HEAD,<MerchantID>,<Date>,<Version>
KLARNA,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
KLARNA,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<OrderDesc>
KLARNA,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
KLARNA,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<OrderDesc>
KLARNA,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<OrderDesc>,<InvNo>
KLARNA,Reverse,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
FOOT,<CountRecords>,<SumAmount>
```

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

Parameter	Format	CND	Description
<b>Type</b>	a..11	M	HEAD for Header, FOOT for Footer, KLARNA for Klarna
<b>Action</b>	a..20	M	The parameter Action defines the type of transaction: Capture Credit Reverse (cancellation)
<b>Amount</b>	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).
<b>Currency</b>	a3	M	Currency code, three digits DIN / ISO 4217

<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ns..30	O	Unique reference number
<b>PayID</b>	an32	M	ID for this transaction given by Paygate
<b>OrderDesc</b>	ans..768	O	For partial activation or partial credit: As a result of this the previously reserved article list is completely replaced by the attached new article list. Details about the structuring of the article list, see above when accessing Klarna.
<b>InvNo</b>	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 the following way:

```

HEAD,<MerchantID>,<Date>,<Version>
KLARNA,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<Status>,<Code>
KLARNA,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<OrderDesc>,<InvNo>
,<Status>,<Code>
KLARNA,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<Status>,<Code>
KLARNA,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<OrderDesc>,<Status>
,<Code>
KLARNA,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<OrderDesc>,<InvNo>
,<Status>,<Code>
KLARNA,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 in):

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

Description of result parameters within the record for Batch files