



# **paydirekt**

Integration Guide

Version 6.2.3

As of: 29.03.2018

# Table of Contents

<b>About paydirekt</b> .....	<b>4</b>
General information about paydirekt .....	4
Process flow chart.....	4
<b>Paygate interface</b> .....	<b>5</b>
Definitions .....	5
Calling the paydirekt interface .....	6
Capture .....	9
Credit with reference.....	10
Call of Paygate interface for reversals.....	11
<b>Batch processing via the interface</b> .....	<b>13</b>

## Document history

Date	Name	Change
29.03.2018	Peter Posse	ShoppingBasketAmount changed to optional
20.09.2017	Peter Posse	Parameters OverCapture and for delivery information added
31.03.2017	Peter Posse	ShoppingBasketCategory extended
04.10.2016	Peter Posse	First version based on Paygate Manual 6.10

# ABOUT PAYDIREKT

## General information about paydirekt

Paydirekt is a new online payment service for all German banks and savings banks and is as trustworthy as your own bank. At the heart of paydirekt is the trusted giro account through which the entire processing takes place.

The buyer registers for paydirekt via their own bank's online system. Each payment is authorised by the buyer's own bank and immediately posted to the giro account. Buyer authentication is via an adaptive authentication process. Each payment also requires an age verification.

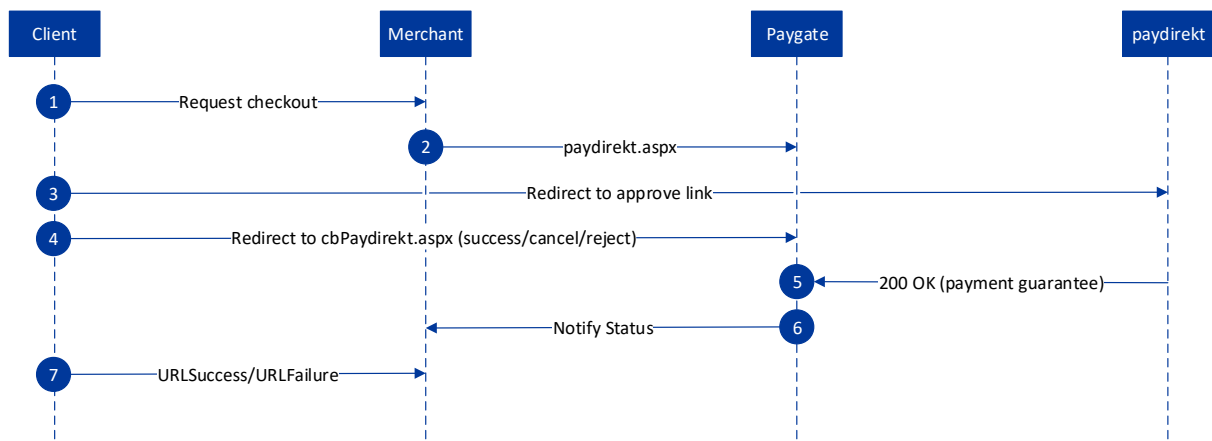
The benefits for the merchant are simple connection of paydirekt to the shop system, highly secure transactions due to the processing of participating banks and savings banks and their credit rating, payment guarantee as soon as the posting is activated after positive payment confirmation and easy handling of returns and complaints.



paydirekt allows online purchases to be paid simply and directly from your giro account. Merchants benefit from this alternative to existing online payment processes which correspond to the stringent requirements of the German credit sector.

Further information can be found on the website of paydirekt (<https://www.paydirekt.de>).

## Process flow chart



paydirekt process flow

# 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-DDDhh: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.

## Calling the paydirekt interface

A payment by paydirekt is divided into two steps, where first of all a payment for an order is initialised before you capture it separately on dispatching the goods. The subsequent transactions then take place via a server-to-server connection. Hence, you can capture these payments or issue a credit in the event of a goods return.

In order to process a payment with paydirekt via a Paygate form, go to the following URL:

<https://www.computop-paygate.com/paydirekt.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 This parameter is to be passed in plain language.
<b>TransID</b>	ans..20	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ns..30	O	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 digits DIN / ISO 4217
<b>OrderDesc</b>	ans..768	O	Description of purchased goods, unit prices etc.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>URLSuccess</b>	ans..256	M	Complete URL which calls up Paygate if payment has been successful. The URL may be called up only via port 443 This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter <b>UserData</b> .
<b>URLFailure</b>	ans..256	M	Complete URL which calls up Paygate if payment has been unsuccessful. The URL may be called up only via port 443 This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter <b>UserData</b> .
<b>Response</b>	a7	O	Status response sent by Paygate to <b>URLSuccess</b> and <b>URLFailure</b> , should be encrypted. For this purpose, transmit <b>Response=encrypt</b> parameter.
<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>ReqID</b>	ans..32	O	To avoid double payments, enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction is submitted again with the same <b>ReqID</b> , Paygate will not carry out the payment, but will just return the status of the original transaction.
<b>Capture</b>	an..6	O	Determines the type and time of capture. <b>AUTO</b> : capturing immediately after authorisation (default value). <b>MANUAL</b> : capturing made by the merchant. <b>&lt;Number&gt;</b> : Delay in hours until the capture (whole number; 1 to 696).
<b>ShopApiKey</b>	ans..64	M	API key of the shop with paydirekt
<b>shAmount</b>	n..12	O	Shipping costs in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).

<b>ShoppingBasketAmount</b>	n..12	O	Value of ordered goods without shipping costs in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>ArticleList</b>	ans..1024	O	Article list with description of items and prices: <Quantity>;<Name>;<EAN>;<Price> <;> separates the fields of an article data set <+> separates the article data sets quantity: ordered quantity of the article Name: designation of the article EAN: international article number (EAN or GTIN), (if not known, submit as empty string "") Price: unit price of the article incl. taxes; amount in the smallest currency unit (e.g. EUR Cent)
<b>Email</b>	ans..100	O	Email address of the customer
<b>MinAge</b>	n..3	O	minimum age in years
<b>ShoppingBasketCategory</b>	a..8	O	Categorizes the shopping basket: „DIGITAL“ for shopping baskets with solely digital goods „PHYSICL“ for shopping baskets with solely physical goods „MIXED“ for shopping baskets with digital and physical goods "ANONYMOUS_DONATION": The shopping basket is solely an anonymous donation "AUTHORITIES_PAYMENT": The shopping basket is solely an authority payment
<b>sdFirstName</b>	ans..50	C	First name in the delivery address Mandatory, if ShoppingBasketCategory <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdLastName</b>	ans..50	C	Surname in the delivery address Mandatory, if ShoppingBasketCategory <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdCompany</b>	ans..100	O	Company name in the delivery address
<b>sdAddressAddition</b>	ans..30	O	Address addition in the delivery address
<b>sdStreet</b>	ans..100	O	Street name in the delivery address
<b>sdStreetNr</b>	ans..8	O	Street number in the delivery address
<b>sdZip</b>	n..5	C	Postcode in the delivery address Mandatory, if ShoppingBasketCategory <> „DIGITAL“ and <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdCity</b>	ans..100	C	Town/city in the delivery address Mandatory, if ShoppingBasketCategory <> „DIGITAL“ and <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdCountryCode</b>	an2	C	Country code in the delivery address Mandatory, if ShoppingBasketCategory <> „DIGITAL“ and <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdEmail</b>	ans..100	C	Email address of the receiver mandatory, if ShoppingBasketCategory = „DIGITAL“
<b>Note</b>	ans..37	O	Text that will be displayed as reason for payment to the customer
<b>CustomerID</b>	ans..64	O	Customer number
<b>OverCapture</b>	bool	O	Flag for Overcapture checkouts. Standard is false. With an Overcapture checkout the sum of captures may exceed the goods value of the order up to 10%. Overcapture is allowed only for checkouts of the type ORDER. OverCapture can be used only by merchants that are activated for this feature at paydirekt and Computop as well.

<b>DeliveryMethod</b>	ans..12	O	Delivery place: STANDARD, PACKSTATION or STORE_PICKUP. The standard value is STANDARD. STANDARD: Goods are delivered to an ordinary postal address. PACKSTATION: Goods are delivered to a Packstation. STORE_PICKUP: Goods are picked up in a branch office. For Express checkouts this field has always the value STANDARD and will not be updated according to the selected delivery option.
<b>DeliveryDate</b>	dtm	O	Expected shipment date in the format YYYY-MM-DD
<b>ParcelService</b>	ans..16	O	Parcel service
<b>TrackingNumber</b>	ans..64	O	Shipment number
<b>Plain</b>	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned unencrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Parameters for payments with paydirekt

The following table gives the result parameters which the Paygate transmits to **URLSuccess** or **URLFailure** and **URLNotify**. If you have specified the **Response=encrypt** parameter, the following parameters are forwarded Blowfish encrypted 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..20	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK, AUTHORIZE_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>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RefNr</b>	ns..30	O	Unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>TID</b>	ans..32	O	Unique ID of this activity and all associated transactions at paydirekt. This ID exists as soon as a customer has logged in at the checkout page.
<b>Reference</b>	ans..36	M	Unique ID of this activity at paydirekt
<b>TransactionID</b>	ans36	O	Unique transaction-ID (UUID). The value is assigned by the paydirekt system.
<b>ShoppingBasket Category</b>	a..8	O	Categorizes the shopping basket: „DIGITAL“ for shopping baskets with solely digital goods „PHYSICAL“ for shopping baskets with solely physical goods „MIXED“ for shopping baskets with digital and physical goods "ANONYMOUS_DONATION": The shopping basket is solely an anonymous donation "AUTHORITIES_PAYMENT": The shopping basket is solely an authority payment
<b>sdFirstName</b>	ans..50	C	First name in the delivery address Mandatory, if ShoppingBasketCategory <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"





<b>sdLastName</b>	ans..50	C	Surname in the delivery address Mandatory, if ShoppingBasketCategory <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdCompany</b>	ans..100	O	Company name in the delivery address
<b>sdAddressAddition</b>	ans..30	O	Address addition in the delivery address
<b>sdStreet</b>	ans..100	O	Street name in the delivery address
<b>sdStreetNr</b>	ans..8	O	Street number in the delivery address
<b>sdZip</b>	n..5	C	Postcode in the delivery address Mandatory, if ShoppingBasketCategory <> „DIGITAL“ and <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdCity</b>	ans..100	C	Town/city in the delivery address Mandatory, if ShoppingBasketCategory <> „DIGITAL“ and <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdCountryCode</b>	an2	C	Country code in the delivery address Mandatory, if ShoppingBasketCategory <> „DIGITAL“ and <> "AUTHORITIES_PAYMENT" and <> "ANONYMOUS_DONATION"
<b>sdEMail</b>	ans..100	C	Email address of the receiver mandatory, if ShoppingBasketCategory = „DIGITAL“
<b>AgeAccepted</b>	a..12	O	ACCEPTED or NOT ACCEPTED
<b>Plain</b>	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned unencrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Result parameters for URLNotify, URLSuccess and URLFailure in case of paydirekt

## Capture

Captures are possible via a Server-to-Server connection. To carry out a Capture for paydirekt 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..20	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ns..30	O	Merchant reference number: here a separate reference number, e.g. an invoice number, can be transferred
<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	Description of purchased goods, unit prices, merchant's comment etc.
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>CompleteType</b>	ans..3	O	If <YES> is transferred, the possible open order of paydirekt is closed on capture.
<b>Note</b>	ans..37	O	Text that will be displayed as reason for payment to the customer

Parameters for paydirekt 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..20	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>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RefNr</b>	ns..30	O	Merchant's unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>TransactionID</b>	ans36	O	Unique transaction-ID of this capture (UUID). The value is assigned by the paydirekt system.

Result parameters for paydirekt captures

## Credit with reference

Credits (refunds) are possible via a Server-to-Server connection. Credits are possible up to 200% of the captured amount, if this is configured by Computop helpdesk within Paygate for the merchant and that payment method. 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..20	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>OrderDesc</b>	ans..768	O	Description of refunded goods, unit prices, merchant's comment etc.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RefNr</b>	ans..30	O	Reference number (e.g. invoice number) which must be unique for each return shipment
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>Note</b>	ans..37	O	Text that will be displayed as reason for payment to the customer

Parameters for credits of paydirekt 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..20	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>RefNr</b>	ns..30	O	Merchant's unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>TransactionID</b>	ans36	O	Unique transaction-ID (UUID). The value is assigned by the paydirekt system.

Result parameters for credits of paydirekt payments

## Call of Paygate interface for reversals

Reversals are possible via a Server-to-Server connection. In order to reverse a paydirekt transaction, 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 credited
<b>TransID</b>	ans..20	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

Parameters for reversals of paydirekt 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..20	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>	a..3	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> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Result parameters for reversal of paydirekt 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 paydirekt payment and which information can be found within the response file about the payment status.

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)

Description of the possible batch versions

The structure for a paydirekt payment within a Batch file to be submitted is the following:

```
HEAD,<MerchantID>,<Date>,<Version>
PAYDIREKT,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
PAYDIREKT,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
PAYDIREKT,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
<b>Type</b>	a..11	M	HEAD for Header, FOOT for Footer, PAYDIREKT for paydirekt
<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..20	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

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>
PAYDIREKT,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<Status>,<Code>
PAYDIREKT,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<Status>,<Code>
PAYDIREKT,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
<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