



AfterPay

Integration Guide

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Document history

Date	Name	Change
23.04.2018	Peter Posse	New parameters BillingAddress, ShippingAddress and JSON object Address added
05.10.2017	Peter Posse	First version

ABOUT AFTERPAY

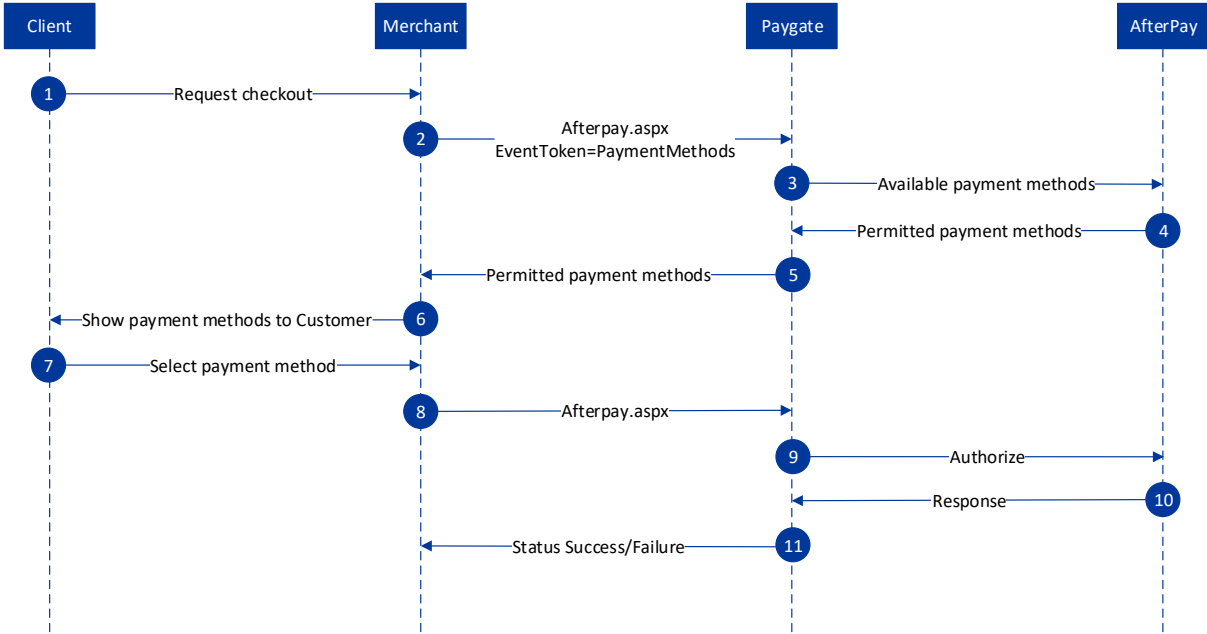
General information about AfterPay



AfterPay offers purchase on account after delivery. Buyers can pay for articles in four simple instalments, without having to provide any additional information during the ordering process. There is no risk of fraud or payment default for the merchant. After a credit check, AfterPay assumes the entire end customer payment default risk for each transaction.

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

Process flow chart



AfterPay 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.

Query about available payment types (two-stage authorisation)

AfterPay differentiates between one-stage and two-stage authorisation. One-stage authorisation is designed for merchants who only use the normal method of payment by invoice in their checkout. Two-stage authorisation permits, for a specific shopping basket, a query of the available payment types and a request for further information.

In order To process two-stage authorisation with AfterPay via server-to-server communication, please go to the following URL:

<https://www.computop-paygate.com/afterpay.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	ns..30	O	Unique reference number
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, three digits DIN / ISO 4217
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
EventToken	a..19	M	The two-stage process is triggered by the transfer of "PAYMENTMETHODS".
bdCompanyOrPerson	a..7	O	Customer category „Company“ „Person“ (default value)
SocialSecurityNumber	ans..16	O	Social security number for bdCompanyOrPerson = "Person" Registration number for bdCompanyOrPerson = "Company" Valid for AddrCountryCode = "FI", "SE" or "NO"
AddrCountryCode	a2	M	Country code „NO“, „SE“, „FI“, „DK“, „DE“, „AT“, „CH“, „NL“, „BE“
AddrZip	ans..10	O	Postcode
AddrStreet	ans..80	O	Street name or packstation
AddrStreetNr	a..50	O	Street number or packstation number
AddrStreetNr2	ans..10	O	Street number addition
AddrCity	ans..100	O	City
FirstName	ans..50	O	First name
LastName	ans..50	O	Last name
CustomerID	ans..20	O	Unique customer number
Salutation	a..4	O	Salutation: „Mr“ „Mrs“ „Miss“ Valid for AddrCountryCode = „DE“, „DK“, „NL“, „BE“, „AT“ or „CH“
bdEmail	ans..100	O	E-mail address

Paygate interface: Query about available payment types (two-stage authorisation)

bdPhone	ns..50	O	Telephone number
bdMobileNo	ns..50	O	Mobile number
DateOfBirth	an10	O	Date of birth in the format YYYY-MM-DD Valid for AddrCountryCode = „DE“, „NL“, „DK“, „BE“ or „AT“
CustomerRisk	ans..1024	O	Risk-relevant data as JSON string in Base64 format (see JSON objects / CustomerRisk) Merchants can conduct external risk checks and send this information to AfterPay. Valid for AddrCountryCode = "DE"
Language	a2	O	Language: "NO", "SE", "FI", "DK", "EN", "DE", "NL", "FR" permitted
CompanyOrPerson	a..7	O	Customer category for delivery address: „Company“ „Person“ (default value)
sdCountryCode	a2	O	Country code of the delivery address: „NO“, „SE“, „FI“, „DK“, „DE“, „AT“, „CH“, „NL“, „BE“
sdZip	ans..10	O	Postcode in the delivery address
sdStreet	ans..80	O	Street name or packstation of the delivery address
sdStreetNr	a..50	O	Street number or packstation number of the delivery address
sdStreetNr2	ans..10	O	Street number addition of the delivery address
sdCity	ans..100	O	Town/city of the delivery address
sdFirstName	ans..50	O	First name in the delivery address
sdLastName	ans..50	O	Last name in the delivery address
sdSalutation	a..4	O	Salutation in the delivery address „Mr“ „Mrs“ „Miss“ Valid for AddrCountryCode = „DE“, „DK“, „NL“, „BE“, „AT“ or „CH“
Email	ans..100	O	E-mail address of the delivery address
Phone	ns..50	O	Phone number in the delivery address
MobileNo	ns..50	O	Mobile number of the delivery address
Order	ans..1024	M	Order information as JSON string in Base64 format. See JSON object / Order

Parameters for payments with AfterPay

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	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 www.computop.de/manual)
CodeExt	n..10	O	Error code from AfterPay, if agreed with Computop Support
ErrorText	ans..1024	O	Error text from AfterPay, if agreed with Computop Support
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
AllowedPayMethods	ans..1024	O	Permissible payment methods as JSON string in the Base64 format (see JSON objects / AllowedPayMethods)
BillingAddress	ans..1024	O	If necessary corrected billing address as JSON string in the Base64 format (see JSON objects / Address)
ShippingAddresses	ans..1024	O	If necessary corrected shipping address as JSON string in the Base64 format (see JSON objects / Address)

Result parameters for AfterPay

The second stage involves the transfer of the payment type and, if relevant, further information relating to the payment type. The transfer of the customer and order data is no longer necessary as it has already been transferred in the first stage.

The second stage is triggered by using the following URL:

<https://www.computop-paygate.com/afterpay.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	ns..30	O	Unique reference number
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, three digits DIN / ISO 4217
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
PayType	a..19	M	Payment method: "Invoice" for Invoice "Account" for flexible payment plan "Installment" for payment by instalment "ConsolidatedInvoice" for consolidated invoice
BIC	ans..11	O	Bank Identifier Code (valid for AddrCountryCode = "DE")
IBAN	ans..34	O	International Bank Account Number (valid for AddrCountryCode = "DE")
ProductNr	n..8	C	Profile number Obligatory for PayType = "Account" or "Installment"
InvoiceDate	an10	O	Date of invoice in the format YYYY-MM-DD.

			Only for PayType = "ConsolidatedInvoice"
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Parameters for AfterPay

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	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 www.computop.de/manual)
CodeExt	n..10	O	Error code from AfterPay, if agreed with Computop Support
ErrorText	ans..1024	O	Error text from AfterPay, if agreed with Computop Support
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
AllowedPayMethods	ans..1024	O	Permissible payment methods as JSON string in the Base64 format (see JSON objects / AllowedPayMethods)

Result parameters for AfterPay

Calling the interface for one-stage authorisation

To process one-stage authorisation with AfterPay, go to the following URL:

<https://www.computop-paygate.com/afterpay.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	ns..30	O	Unique reference number
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, three digits DIN / ISO 4217

MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
PayType	a..19	M	Payment method: "Invoice" for Invoice "Account" for flexible payment plan "Installment" for payment by instalment "ConsolidatedInvoice" for consolidated invoice
BIC	ans..11	O	Bank Identifier Code (valid for AddrCountryCode = "DE")
IBAN	ans..34	O	International Bank Account Number (valid for AddrCountryCode = "DE")
ProductNr	n..8	C	Profile number Obligatory for PayType = "Account" or "Installment"
InvoiceDate	an10	O	Date of invoice in the format YYYY-MM-DD. Only for PayType = "ConsolidatedInvoice"
bdCompanyOrPerson	a..7	O	Customer category „Company“ „Person“ (default value)
SocialSecurityNumber	ans..16	O	Social security number for bdCompanyOrPerson = "Person" Registration number for bdCompanyOrPerson = "Company" Valid for AddrCountryCode = "FI", "SE" or "NO"
AddrCountryCode	a2	M	Country code „NO“, „SE“, „FI“, „DK“, „DE“, „AT“, „CH“, „NL“, „BE“
AddrZip	ans..10	O	Postcode
AddrStreet	ans..80	O	Street name or packstation
AddrStreetNr	a..50	O	Street number or packstation number
AddrStreetNr2	ans..10	O	Street number addition
AddrCity	ans..100	O	City
FirstName	ans..50	O	First name
LastName	ans..50	O	Last name
CustomerID	ans..20	O	Unique customer number
Salutation	a..4	O	Salutation: „Mr“ „Mrs“ „Miss“ Valid for AddrCountryCode = „DE“, „DK“, „NL“, „BE“, „AT“ or „CH“
bdEmail	ans..100	O	E-mail address
bdPhone	ns..50	O	Telephone number
bdMobileNo	ns..50	O	Mobile number
DateOfBirth	an10	O	Date of birth in the format YYYY-MM-DD Valid for AddrCountryCode = „DE“, „NL“, „DK“, „BE“ or „AT“
CustomerRisk	ans..1024	O	Risk-relevant data as JSON string in Base64 format (see JSON objects / CustomerRisk) Merchants can conduct external risk checks and send this information to AfterPay. Valid for AddrCountryCode = "DE"
Language	a2	O	Language: "NO", "SE", "FI", "DK", "EN", "DE", "NL", "FR" permitted
CompanyOrPerson	a..7	O	Customer category for delivery address: „Company“ „Person“ (default value)
sdCountryCode	a2	O	Country code of the delivery address: „NO“, „SE“, „FI“, „DK“, „DE“, „AT“, „CH“, „NL“, „BE“

sdZip	ans..10	O	Postcode in the delivery address
sdStreet	ans..80	O	Street name or packstation of the delivery address
sdStreetNr	a..50	O	Street number or packstation number of the delivery address
sdStreetNr2	ans..10	O	Street number addition of the delivery address
sdCity	ans..100	O	Town/city of the delivery address
sdFirstName	ans..50	O	First name in the delivery address
sdLastName	ans..50	O	Last name in the delivery address
sdSalutation	a..4	O	Salutation in the delivery address „Mr“ „Mrs“ „Miss“ Valid for AddrCountryCode = „DE“, „DK“, „NL“, „BE“, „AT“ or „CH“
Email	ans..100	O	E-mail address of the delivery address
Phone	ns..50	O	Phone number in the delivery address
MobileNo	ns..50	O	Mobile number of the delivery address
Order	ans..1024	M	Order information as JSON string in Base64 format. See JSON object / Order

Parameters for payments with AfterPay

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	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 www.computop.de/manual)
CodeExt	n..10	O	Error code from AfterPay, if agreed with Computop Support
ErrorText	ans..1024	O	Error text from AfterPay, if agreed with Computop Support
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
BillingAddress	ans..1024	O	If necessary corrected billing address as JSON string in the Base64 format (see JSON objects / Address)
ShippingAddresses	ans..1024	O	If necessary corrected shipping address as JSON string in the Base64 format (see JSON objects / Address)

Result parameters for AfterPay

Capture

Captures are possible via a Server-to-Server connection. To carry out a Capture for AfterPay 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 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
RefNr	ns..30	O	Merchant's unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
OrderDesc	ans..768	O	Description of purchased goods, unit prices, merchant's comment etc.
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
Order	ans..1024	C	Mandatory for partial capture or if order information have changed with the same total amount. Order information as JSON string in Base64 format. (see JSON objects / OrderSummary)
InvoiceNr	ans..30	O	In considered only if Order is also transferred. Invoice number that is displayed within AfterPay portal. An order can contain more than one invoice.
ShippingData	ans..1024	O	In considered only if Order is also transferred. Shipping information as JSON string in Base64 format. (see JSON objects / ShippingData)

Parameters for AfterPay captures

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
Status	a..50	M	OK, CAPTURE_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 www.computop.de/manual)
RefNr	ns..30	M	Merchant's unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
InvoiceNumber	ans..30	O	Booking number: generated by merchant or, if not available, by AfterPay. Is necessary for partial credits.
CodeExt	n..10	O	Error code from AfterPay, if agreed with Computop Support
ErrorText	ans..128	O	Error message from AfterPay, if agreed with Computop Support

Result parameters for AfterPay captures

Credit with reference

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
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 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
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
OrderDesc	ans..768	O	Description of refunded goods, unit prices, merchant's comment etc.
RefNr	ns..30	O	Reference number (e.g. invoice number) which must be unique for each return shipment
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
Order	ans..1024	C	Mandatory for partial credits Order information as JSON string in Base64 format. (see JSON objects / RefundOrder)
InvoiceNr	ans..30	C	Is considered only if Order is also transferred, but then it is mandatory. Invoice number that should be credited. That is the invoice number which is contained in the capture response.
RefundType	enum	O	Type or credit: Possible values are "Refund" and "Return" Is necessary only for a full credit.

Parameters for credits of AfterPay 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
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 www.computop.de/manual)
RefNr	ns..30	M	Merchant's unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
CodeExt	n..10	O	Error code from AfterPay, if agreed with Computop Support
ErrorText	ans..128	O	Error message from AfterPay, if agreed with Computop Support

Result parameters for credits of AfterPay payments

Call of Paygate interface for reversals

Reversals are possible via a Server-to-Server connection. In order to reverse an AfterPay 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
MerchantID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment to be reverted
TransID	ans..64	M	TransactionID which should be unique for each payment
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
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop



Order	ans..1024	C	Mandatory for partial reversals Order information as JSON string in Base64 format. (see JSON objects / OrderSummary)
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Parameters for reversals of AfterPay 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
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
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 www.computop.de/manual)
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
CodeExt	n..10	O	Error code from AfterPay, if agreed with Computop Support
ErrorText	ans..128	O	Error message from AfterPay, if agreed with Computop Support

Result parameters for reversals of AfterPay 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 an AfterPay payment and information can be found within the response file about the payment status.

Notice: Please note that partial captures, partial credits and partial reversals for AfterPay are not possible with batch.

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 / 2.x	with RefNr (valid for all versions other than 1.0)

Description of the possible batch versions

The structure for an AfterPay payment in a Batch file to be submitted is as follows:

```
HEAD,<MerchantID>,<Date>,<Version>
AFTERPAY,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
AFTERPAY,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
AFTERPAY,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, AFTERPAY for AfterPay
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

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>
AFTERPAY,Capture,<Amount>,<Currency>,<TransID>,(,<RefNr>,<PayID>,<Status>,<Code>
AFTERPAY,Credit,<Amount>,<Currency>,<TransID>,(,<RefNr>,<PayID>,<Status>,<Code>
AFTERPAY,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 www.computop.de/manual)

Description of result parameters within the record for Batch files

JSON OBJECTS

The JavaScript Object Notation, JSON for short, is a compact data format in an easy-to-read text format for the purpose of exchanging data between applications. JSON does not depend on the programming language. Parsers exist in practically all widely used languages. You can find more information about JSON via this link:

<https://wiki.selfhtml.org/wiki/JavaScript/JSON>

The next section describes JSON objects which are required for requests or returned in the response.

Notice: The JSON string can include special characters and so must also be Base64 encoded. Transfer problems may otherwise occur.

CustomerRisk

Risk-relevant data about the customer. Merchants can conduct external risk checks and send this information to AfterPay.

Parameter	Format	CND	Description
existingCustomer	bool	O	Indicates whether the customer is an existing customer of the merchant
verifiedCustomerIdentification	bool	O	Indicates whether the customer has been verified
marketingOptIn	bool	O	Indicates whether marketing material is requested
customerSince	dtm	O	Date in format YYYY-MM-DD since which the customer has existed
customerClassification	ans..32	O	Customer classification
acquisitionChannel	enum	O	Indicates the channel via which the merchant is reached. Possible values: „NotSet“, „Advertisement“, „SocialNetwork“, „Direct“, „SearchEngine“, „Other“
hasCustomerCard	bool	O	Indicates whether the customer has a loyalty card
customerCardSince	dtm	O	Date in format YYYY-MM-DD since which the loyalty card has existed
customerCardClassification	ans..32	O	Indicates the loyalty card level, e.g. "Gold Member"
profileTrackingId	ans..64	O	Unique TrackingID
ipAddress	ans..15	O	Customer's IP address
numberOfTransactions	n..5	O	Number of successful transactions already completed by the customer
customerIndividualScore	n..5	O	Individual score for the customer supplied by the merchant

Example CustomerRisk as JSON string

```
{
  "existingCustomer" : true,
  "verifiedCustomerIdentification" : "true",
  "marketingOptIn" : "false",
  "customerSince" : "2015-11-20",
  "customerClassification" : "Classification",
  "acquisitionChannel" : "SearchEngine",
  "hasCustomerCard" : true,
  "customerCardSince" : "2016-01-23",
  "customerCardClassification" : "Gold Member",
  "profileTrackingId" : "TrackingID123456",
  "ipAddress" : "201.18.14.2",
  "numberOfTransactions" : 27,
  "customerIndividualScore" : 98
}
```

Order

The order information is defined here.

Parameter	Format	CND	Description
totalGrossAmount	ans..16	O	Gross order amount. Must equal the value of all items (grossUnitPrice * quantity).
currency	enum	O	Currency: Possible values are „EUR“, „NOK“, „SEK“, „DKK“, „CHF“
items	Array	O	Array of OrderItems (see JSON objects / OrderItem)
number	ans..64	O	Unique order number
totalNetAmount	ans..16	O	Net order amount
imageUrl	ans..256	O	URL for order image. This image can be viewed on the invoice or next to the instal-ment payment in the AfterPay portal. Limited to 100-1280px.
googleAnalyticsUserId	ans..64	O	Google Analytics UserID
googleAnalyticsClientId	ans..64	O	Google Analytics ClientID
discountAmount	ans..16	O	Discount amount (only for statistical purposes)

OrderItem

The order information is defined here.

Parameter	Format	CND	Description
productId	ans..64	M	Article number
description	ans..128	M	Article description
quantity	n..8	M	Article quantity Decimal values, if agreed with Computop and AfterPay.
grossUnitPrice	ans..16	O	Gross price per article
groupId	ans..64	O	GroupID
netUnitPrice	ans..16	O	Net price per article
unitCode	ans..16	O	Unit (e.g. pieces, litres, kilograms, etc.)
vatCategory	enum	O	VAT category Possible values: "HighCategory", "LowCategory", "NullCategory", "NoCategory", "MiddleCategory", "OtherCategory"

vatPercent	n..2	O	VAT in percent
vatAmount	ans..16	O	VAT as amount
imageUrl	ans..256	O	URL for order image. This image can be viewed on the invoice or next to the instal-ment payment in the AfterPay portal. Limited to 100-1280px.
googleProductCategoryId	n..16	O	Google Product Category ID
googleProductCategory	ans..64	O	Google Product Category
merchantProductType	ans..64	O	Merchant category in addition to Google classification
lineNumber	n.3	O	The merchant can specify a line number for each article for sorting purposes
discountAmount	ans..16	O	Discount amount (only for statistical purposes)
productUrl	ans..256	O	Article URL
marketPlaceSellerId	ans..64	O	ID of a specific market place

Example of Order as JSON string

```
{
  "number" : "ORDER000001",
  "totalGrossAmount" : 12.40,
  "currency" : "EUR",
  "items" : [{
    "productId" : "1",
    "description" : "Tablet Black",
    "grossUnitPrice" : 4.10,
    "quantity" : 2.0
  }, {
    "productId" : "2",
    "description" : "MusicPlayer Black",
    "grossUnitPrice" : 4.20,
    "quantity" : 1.0
  }
]
}
```

AllowedPayMethods

The information about the allowed payment types is defined here in an array.

PaymentMethod

The article information is defined here.

Parameter	Format	CND	Description
type	enum	O	Available payment method Possible values: "Invoice", "Account", "Installment", "Consolidatedinvoice"
account	AccountProduct	O	Account information (see JSON objects / AccountProduct)
directDebit	DirectDebitInfo	O	Direct-Debit information (see JSON objects / DirectDebitInfo)
campaigns	Array	O	Array of campaign information (see JSON objects / CampaignInfo)
Installment	InstallmentInfo	O	Instalment payment information (see JSON objects / InstallmentInfo)

AccountProduct

The AccountProduct information is defined here.

Parameter	Format	CND	Description
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profileNo	n..32	M	Account profile number
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DirectDebitInfo

The DirectDebitInfo information is defined here.

Parameter	Format	CND	Description
Available	bool	O	Indicates whether DirectDebit is available.

CampaignInfo

The CampaignInfo information is defined here.

Parameter	Format	CND	Description
campaignNo	n..32	O	Campaign number
description	ans..128	O	Campaign description

InstallmentInfo

The InstallmentInfo information is defined here.

Parameter	Format	CND	Description
basketAmount	enum	O	Available payment method Possible values: "Invoice", "Account", "Installment", "Consolidatedinvoice"
numberOfInstallments	n..2	O	Number of instalments
installmentAmount	ans..16	O	Instalment amount for each month
firstInstallmentAmount	ans..16	O	First instalment amount
lastInstallmentAmount	ans..16	O	Final instalment amount
interestRate	ans..16	O	Interest rate
effectiveInterestRate	ans..16	O	Effective interest rate
effectiveAnnualPercentageRate	ans..16	O	Effective annual percentage
totalInterestAmount	ans..16	O	Total interest rate
startupFee	ans..16	O	Starting fee
monthlyFee	ans..16	O	Monthly fee
totalAmount	ans..16	O	Total amount
installmentProfileNumber	ans..16	O	Instalment profile number
readMore	ans..128	O	Further information about the instalment process

Example of AllowedPaymentMethods as JSON string

```
{
  "paymentMethods" : [{
    "type" : "Invoice"
  }, {
    "type" : "Invoice",
    "directDebit" : {
      "available" : true
    }
  }
]
}
```

Address

The information about corrected billing address data is defined here in an array if necessary.

Parameter	Format	CND	Description
countryCode	enum	O	Country code Possible values: "NO", "SE", "FI", "DK", "DE", "AT", "CH", "NL", "BE"
postalCode	ans..10	O	Postal code
postalPlace	ans..100	O	City
Street	ans..100	O	Street or packstation
streetNumber	ans..10	O	Street number or packstation number
streetNumberAdditional	ans..10	O	Street number addition
careOf	ans..50	O	Responsible person for dispatch of shipment

Example of Address as JSON string

```
{
  [ {
    "countryCode" : "DE",
    "postalCode" : "10405",
    "street" : "Prenzlauer Allee",
    "streetNumber" : 20
    "streetNumberAdditional" : "3. Stock",
    "postalPlace" : "Berlin",
    "addressType" : null,
    "careOf" : null
  }
]
}
```

OrderSummary

The OrderSummary information is defined here.

Parameter	Format	CND	Description
totalGrossAmount	ans..16	O	Gross order amount. Must equal the value of all items (grossUnit-Price * quantity).
currency	enum	O	Currency. Possible values are "EUR", "NOK", "SEK", "DKK", "CHF"
items	Array	O	Array of OrderItems (see JSON objects / OrderItem)
totalNetAmount	ans..16	O	Net order amount

imageUrl	ans..256	O	URL for order image. This image can be viewed on the invoice or next to the instal-ment payment in the AfterPay portal. Limited to 100-1280px.
googleAnalyticsUserId	ans..64	O	Google Analytics UserID
googleAnalyticsClientId	ans..64	O	Google Analytics ClientID
discountAmount	ans..16	O	Discount amount (only for statistical purposes)

Example of OrderSummary as JSON string

```
{
  "totalGrossAmount" : 8.30,
  "currency" : "EUR",
  "items" : [{
    "productId" : "1",
    "description" : "Tablet Black",
    "grossUnitPrice" : 4.10,
    "quantity" : 1.0
  }, {
    "productId" : "2",
    "description" : "MusicPlayer Black",
    "grossUnitPrice" : 4.20,
    "quantity" : 1.0
  }
]
```

ShippingData

The information about dispatch is defined here in an array.

Parameter	Format	CND	Description
shippingDetails	Array	M	Array of shipping information (see JSON objects / Shipping-Details)

ShippingDetails

The ShippingDetails information is defined here.

Parameter	Format	CND	Description
type	enum	M	Dispatch type: Possible values are "Shipment", "Return"
shippingCompany	ans..64	M	Shipping company
trackingId	ans..64	M	Unique TrackingID

Example of ShippingData as JSON string

```
{
  "shippingDetails" : [{
    "type" : "Shipment",
    "shippingCompany" : "DHL",
    "trackingId" : "234324234"
  }, {
    "type" : "Shipment",
    "shippingCompany" : "Hermes",
    "trackingId" : "687654"
  }
]
```

RefundOrder

The information about the articles to be credited is defined here.

Parameter	Format	CND	Description
orderItems	Array	M	Array of articles to be credited (see JSON objects / RefundOrderItem)

RefundOrderItem

The RefundOrderItem information is defined here.

Parameter	Format	CND	Description
refundType	enum	M	Credit type: Possible values are "Refund", "Return"
productId	ans..64	M	Article number
description	ans..128	M	Article description
quantity	n..8	M	Article quantity Decimal values, if agreed with Computop and AfterPay.
grossUnitPrice	ans..16	O	Gross price per article
groupId	ans..64	O	GroupID
netUnitPrice	ans..16	O	Net price per article
unitCode	ans..16	O	Unit (e.g. pieces, litres, kilograms, etc.)
vatCategory	enum	O	VAT category Possible values: "HighCategory", "LowCategory", "NullCategory", "NoCategory", "MiddleCategory", "OtherCategory"
vatPercent	n..2	O	VAT in percent
vatAmount	ans..16	O	VAT as amount
imageUrl	ans..256	O	URL for order image. This image can be viewed on the invoice or next to the instal-ment payment in the AfterPay portal. Limited to 100-1280px.
googleProductCategoryId	n..16	O	Google Product Category ID
googleProductCategory	ans..64	O	Google Product Category
merchantProductType	ans..64	O	Merchant category in addition to Google classification
lineNumber	n.3	O	The merchant can specify a line number for each article for sorting purposes
discountAmount	ans..16	O	Discount amount (only for statistical purposes)
productUrl	ans..256	O	Article URL
marketPlaceSellerId	ans..64	O	ID of a specific market place

Example of RefundOrder as JSON string

```
{
  "orderItems" : [{
    "productId" : "1",
    "description" : "Tablet Black",
    "grossUnitPrice" : 4.10,
    "quantity" : 2.0
  }, {
    "productId" : "2",
    "description" : "MusicPlayer Black",
    "grossUnitPrice" : 4.20,
    "quantity" : 1.0
  }
]
```