



**eps**

Integration Guide

Version 6.2.2

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## Document history

Date	Name	Change
13.02.2017	Peter Posse	TransactionID added
04.10.2016	Peter Posse	First version based on Paygate Manual 6.10

# ABOUT EPS

## General information about eps

In Austria Computop Paygate supports online money transfer with the Austrian Electronic Payment Standard (EPS). EPS is an established system for e-commerce payments in Austria offering a payment guarantee to the merchant. The customer can use the familiar and trusted online banking of its own credit institution, just the same as with online banking.

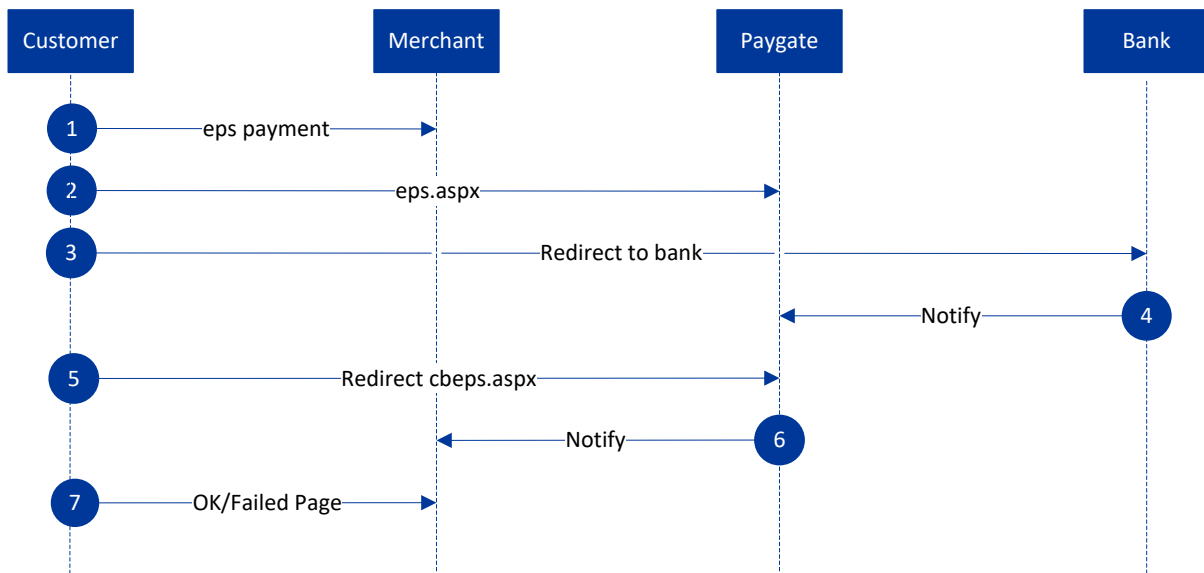
With online banking, the data disclosed in the online transfer is encrypted with SSL (Secure Sockets Layer) to prevent manipulation.



In Austria the online bank transfer with eps is very widespread in E-commerce and thus an interesting addition to the payment mix. Additionally the merchant gets a payment guarantee.

Further information can be found on the webpage of eps / STUZZA ([www.stuzza.at](http://www.stuzza.at)).

## Process flow chart



eps process flow

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

## Calling the eps interface

The eps connection with a Paygate form can be either direct or via PPRO, where the interface form and process are largely identical. With the PPRO connection there are a few added parameters which are explained separately in the table. Subsequent credits and batch transfer credits can only be made with the PPRO connection.

To make a payment in Austria with eps online transfer via a Paygate form, go to the following URL:

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

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

**Notice:** An eps connection via iFrame is not possible due to eps regulations and will be prevented technically.

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..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ns..30	M	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 Only EUR is permissible.
<b>OptionDate</b>	ans10	OC	Not with PPRO: desired payment execution date in the format YYYY-MM-DD
<b>OrderDesc</b>	ans..768	M	Intended use on statement of account (max 35 digits) With PPRO: Description of purchased goods, unit prices etc.
<b>OrderDesc2</b>	ans..384	C	Not with PPRO: Number and description of purchased products, individual prices, comma-separated list, no special characters allowed
<b>AccOwner</b>	ans..50	OC	Obligatory for PPRO: Name of account holder
<b>IBAN</b>	ans..34	OC	Obligatory for PPRO: International Bank Account Number for SEPA
<b>BIC</b>	ans..11	OC	Obligatory for PPRO: Bank Identifier Code for SEPA
<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>SellingPoint</b>	ans..50	C	Only with PPRO: Selling point
<b>Service</b>	ans..50	C	Only with PPRO: products or service sold
<b>Channel</b>	ans..64	OC	Only with PPRO: configuration channel of the PPRO contract (account and ContractID are stored in the system). If it exists, it may overwrite channels stored in the system
<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 un-encrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Parameters for online transfers with eps

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..64	M	Merchant transaction number, which must be unique
<b>Status</b>	a..50	M	OK, AUTHORIZED (URLSuccess) or FAILED (URLFailure). with PPRO also AUTHORIZE_REQUEST
<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	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>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>AccOwner</b>	ans..50	M	Name of account holder
<b>IBAN</b>	ans..34	OC	Obligatory for PPRO: International Bank Account Number for SEPA
<b>BIC</b>	ans..11	OC	Obligatory for PPRO: Bank Identifier Code for SEPA
<b>PaymentPurpose</b>	ans..26	C	Only with PPRO: Purpose of payment
<b>PaymentGuarantee</b>	a..12	C	Only with PPRO: NONE= no payment guarantee, VALIDATED= customer account valid, but no payment guarantee, FULL= payment guarantee Notice: This parameter is only returned if the Status=OK.
<b>ErrorText</b>	ans..128	C	Only with PPRO: Detailed PPRO error message. Notice: Is returned only if Status=FAILED. Use is possible only in agreement with Computop support.
<b>TransactionID</b>	an..20	O	Only with PPRO: Unique transaction number from PPRO

<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 un-encrypted 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 eps

## Credit with reference

Credits (refunds) are possible via a Server-to-Server connection. Eps credits are only allowed with the PPRO connection. Paygate permits only credits for eps that reference on a capture previously made via Paygate. 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>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<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

Parameters for credits of eps payments

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	C	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, 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>ErrorText</b>	ans..128	O	Detailed PPRO error message Notice: Is returned only if Status=FAILED. Use is possible only in agreement with Computop support.
<b>TransactionID</b>	an..20	O	Only with PPRO: Unique transaction number from PPRO

Result parameters for credits of eps 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 with the data set (**Record**) for executing an eps credit and which information can be found within the response file about the payment status.

**Notice:** Please note that Batch processing for eps is possible only via PPRO connection.

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

Action	Version	Description
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)

Description of the possible batch versions

The structure for an eps credit within a Batch file to be submitted is the following:

```
HEAD,<MerchantID>,<Date>,<Version>
EPS,Credit,<PayID>,<TransID>,( <RefNr> ),<Amount>,<Currency>
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, EPS for direct eps
Action	a..20	M	The parameter Action defines the type of transaction: Credit
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 the following way:

```
HEAD,<MerchantID>,<Date>,<Version>
EPS,Credit,<PayID>,<TransID>,( <RefNr> ),<Amount>,<Currency>,<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: Credit
<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