



Sofort via PPRO

Integration Guide

Version 6.2.3

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Document history

Date	Name	Change
01.09.2017	Peter Posse	Countries updated, spelling "Sofort"
23.02.2017	Peter Posse	TransactionID added
04.10.2016	Peter Posse	First version

ABOUT SOFORT

General information about Sofort

Sofort is a method of bank transfers and is based on online banking. A big advantage is: The customer doesn't need to register and does not need to create a virtual account, a so called wallet. As the name suggests it is an immediate bank transfer and thus a direct bank transfer. The customer selects Sofort as payment method for their online purchase and is then forwarded to the secure payment form. The bank transfer data is transferred automatically and the customer only has to select his or her bank and enter their login details for online banking. Finally he releases the bank transfer by means of an approval code. All data is send encrypted to the online banking account. The online merchant receives a real-time confirmation of the executed bank transfer. The merchant can execute and dispatch the order immediately delivering goods/services faster. There is no waiting time until the dispatch of the goods like it would be for example in the case of prepayment via bank transfer.

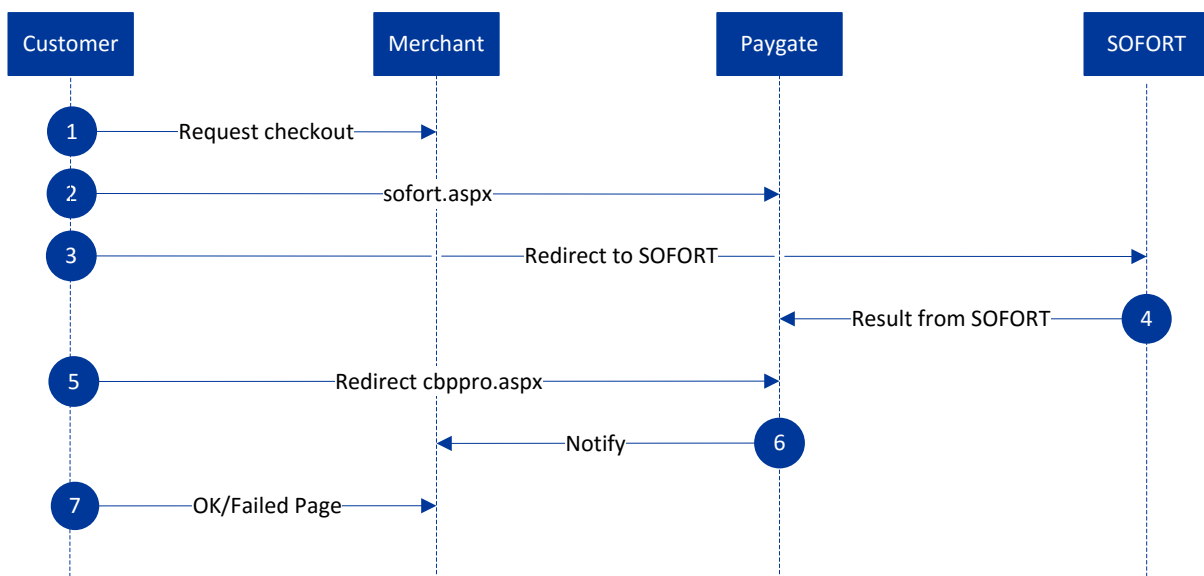
As usual with online banking, the data disclosed in Sofort are encrypted with SSL (Secure Sockets Layer).

Klarna.

The international online bank transfer with PIN/TAN from Sofort GmbH is now available in 13 countries. As part of the Klarna Group Sofort offers the integration of payment in the webshop, so that a customer is forwarded to his/her bank and can make the transfer with input of PIN and TAN.

Further information can be found on the webpage of Sofort (<https://www.sofort.com/ger-DE/verkaeufersu/e-payment-sofort-ueberweisung>).

Process flow chart



Process flow for Sofort within Paygate

PARAMETERS OF THE 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 interface

To carry out an online transfer with Sofort via PPRO, go to the following URL:

<https://www.computop-paygate.com/sofort.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	Three digits DIN / ISO 4217. Only EUR and GBP permissible.
OrderDesc	ans..384	M	Reason for payment on customer-account statement. Notice: Only the first 27 characters appear on the customer-account statement. You can view the full data in Computop Analytics.
AccOwner	as..27	M	Name of account holder
IBAN	an..34	O	IBAN of the user which appears predefined in the transfer window (only possible for DE).
BIC	an..11	O	BIC of the user which appears predefined in the transfer window
AddrCountryCode	a2	M	Two characters country code according to ISO 3166. Presently DE, AT, BE, NL, ES, CH, PL, IT permitted.
Language	a2	O	Language: de - German, en – English, fr- French, nl - Dutch, pl - Polish
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
URLSuccess	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 UserData .
URLFailure	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 UserData .
Response	a7	O	Status response sent by Paygate to URLSuccess and URLFailure , should be encrypted. For this purpose, transmit Response=encrypt parameter.
URLNotify	ans..256	M	Complete URL which Paygate calls up in order to notify the shop about the payment result. The URL may be called up only via port 443 It may not contain parameters: Use the UserData parameter instead.
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
ReqID	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 ReqID , Paygate will not carry out the payment, but will just return the status of the original transaction.
SellingPoint	ans..50	O	Selling point
Service	ans..50	O	products or service sold
Channel	ans..64	O	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

Plain	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
Custom	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 Sofort via PPRO

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
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment For example 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 AUTHORIZED (URLSuccess) as well as FAILED or AUTHORIZE_REQUEST (URLFailure)
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	O	Unique reference number
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
UserData	ans..1024	O	If specified upon call, Paygate forwards the parameter with the payment result to the shop
PaymentPurpose	ans..26	M	Purpose of payment
PaymentGuarantee	a..12	C	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.
ErrorText	ans..256	C	Detailed PPRO error message. Notice: Is returned only if Status=FAILED. Use is possible only in agreement with Computop support.
TransactionID	an..20	O	Unique transaction number from PPRO
AccOwner	as..27	O	Name of account holder
AccBank	ans..50	O	Name of the account holder's bank
IBAN	an..34	O	International Bank Account Number
BIC	an..11	O	Bank Identifier Code
Plain	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
Custom	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 Sofort via PPRO

Credit with Sofort

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 This parameter is to be passed in plain language.
PayID	an32	M	Paygate ID for the identification of a payment
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	Three digits DIN / ISO 4217.
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for credits via socket connections

The following table gives the parameters with which the Paygate responds:

Parameter	Format	CND	Description
MID	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment. Important for future reference.
XID	an32	M	ID assigned by Paygate for the payment transaction
TransID	ans..64	M	TransactionID which should be unique for each payment
Status	a..50	MC	OK or FAILED
Description	a..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
TransactionID	an..20	O	Unique transaction number from PPRO

Response parameters for credits with Sofort via socket connections

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 refund for Sofort 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
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 Sofort within a Batch file to be submitted is the following:

```
HEAD,<MerchantID>,<Date>,<Version>
SOFORT,Credit,<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
Type	a..11	M	HEAD for Header, FOOT for Footer, SOFORT for Sofort
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)
Currency	a3	M	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:

```
SOFORT,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<Status>,<Code>
```

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> correspond to the call as specified above):

Parameter	Format	CND	Description
Action	a..20	M	The parameter Action defines the type of transaction: Credit.
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