



MobilePay

Integration Guide

Version 6.2.2

As of: 13.12.2017

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Document history

Date	Name	Change
13.12.2017	Peter Posse	Changes for name, logo and design
22.12.2016	Peter Posse	First version

ABOUT MOBILEPAY

General information on MobilePay

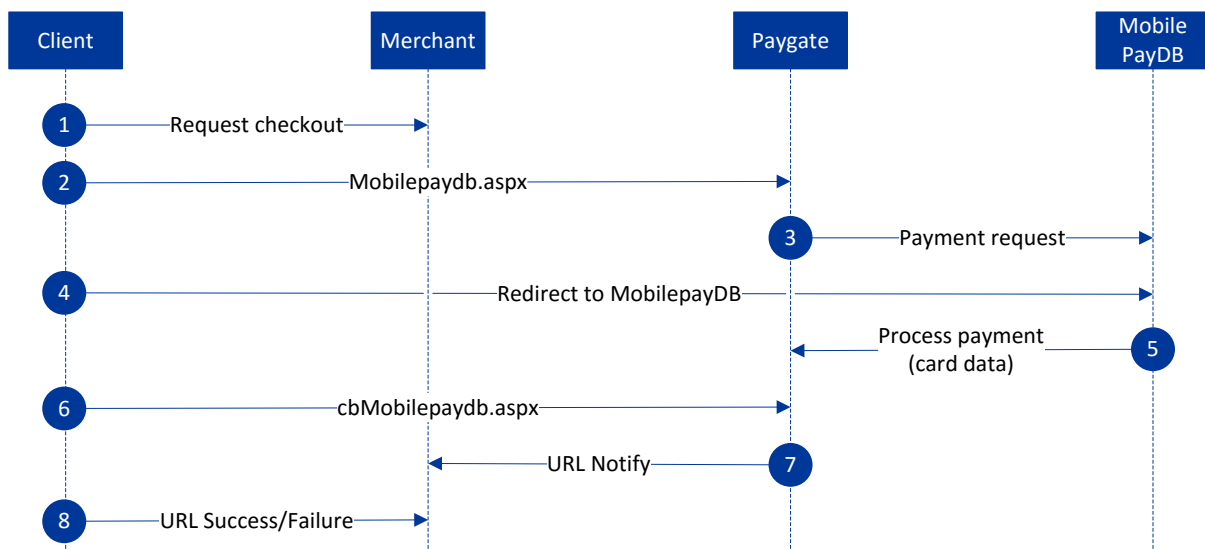
MobilePay is the mobile payment solution from Danske Bank. If the customer selects this payment type in the online shop he can pay by entering his mobile phone number. A request is sent to the customer's MobilePay App and the customer confirms the purchase on his smartphone. This payment solution simplifies the payment procedure because the customer's card is stored in the app, making it unnecessary to input the card number. MobilePay is not restricted to Danske Bank account holders, over 3 million Danes use this payment type, with which simple P2P payments are also possible. With its POS functions MobilePay is also prepared for payments via Bluetooth or QR-Code. The receipt of invoices and their payment is also possible. MobilePay is installed on 9 out of 10 Danish Smartphones and is also available in Sweden, Norway and Finland.



With MobilePay the customer pays by entering his mobile phone number on the website. This payment solution simplifies the payment procedure because the customer's card is stored in the app, making it unnecessary to input the card number. More than 3 million Danes already use this payment type, with which simple P2P payments are also possible.

Further information can be found on the webpage of Mobilepay (<https://www.mobilepay.dk/da-dk/Pages/The-story-in-English.aspx>). Design guidelines for MobilePay checkout button can be found on following link: <https://developer.mobilepay.dk/design>.

Process flow chart



MobilePay 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

Call of Paygate interface for MobilePay

To make a payment with MobilePay, go to the following URL:

<https://www.computop-paygate.com/MobilePayDB.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.
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
OrderDesc	ans..768	M	Description of purchased goods, unit prices etc.
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
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.
Language	a2	O	Language for displaying the MobilePay form. Possible values: da, no, fi
MobileNr	an..15	O	Phone number of MobilePay accounts in the format +4595000012
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 unencrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Parameters for MobilePay

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, 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 AUTHORIZED (URLSuccess) as well as FAILED (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)
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
RefNr	ans..30	O	Merchant's unique reference number

UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
MaskedPan	an..19	OC	Masked card number 6X4
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 MobilePay

Capture

Captures are possible via a Server-to-Server connection. To carry out a Capture via a Server-to-Server connection please use the following URL:

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

The following tables describe the transfer parameters and return values which are exchanged via the socket connection.

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
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
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	a..3	M	Currency code, three digits DIN / ISO 4217
RefNr	ans..30	O	Merchant's unique reference number
FinishAuth	a1	O	Transmit value <Y> in order to stop the prolongation of guaranteed authorizations and rest amounts after partial captures.
Textfeld1	ans..30	O	Card holder information: Name
Textfeld2	ans..30	O	Card holder information: City

Parameters for captures of MobilePay

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
MID	ans..30	C	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..30	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	ans..30	OC	Merchant's unique reference number

Result parameters for captures of MobilePay

Credit with reference

Credits (refunds) are possible via a Server-to-Server connection. This section describes the processing of credits with reference transactions. 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>

The following tables describe the transfer parameters and return values which are exchanged via the socket connection.

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
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
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	a..3	M	Currency code, three digits DIN / ISO 4217
OrderDesc	ans..768	O	Description of refunded goods, unit prices, merchant's comment etc.
Textfeld1	ans..30	O	Card holder information: Name
Textfeld2	ans..30	O	Card holder information: City

Parameters for credits of MobilePay

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
MID	ans..30	C	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..30	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)

Result parameters for credits of MobilePay

Reversal

Paygate can reverse an authorisation to no longer block the limit any more. 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.

Notice: Reverse.aspx does not only reverse authorisations, but any LAST TRANSACTION STAGE! If the last transaction was a capture, Reverse.aspx initiates the reverse, e.g. a credit. Therefore, the utmost caution is urged. Use is at your own risk. We recommend checking the transaction status with Inquire.aspx before using Reverse.aspx.

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	a..3	M	Currency code, three digits DIN / ISO 4217
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for reversals of MobilePay

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
MID	ans..30	C	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..30	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)

Result parameters for reversals of MobilePay