



# Paygate China

Integration Guide

Version 6.2.1

As of: 04.10.2016

# Table of Contents

- About Paygate China ..... 4**
  - General information about Paygate China ..... 4
  - Process flow chart..... 4
- Paygate interface ..... 5**
  - Definitions ..... 5
  - Calling the interface for Paygate China ..... 6
  - Credit with reference..... 8

## Document history

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

# ABOUT PAYGATE CHINA

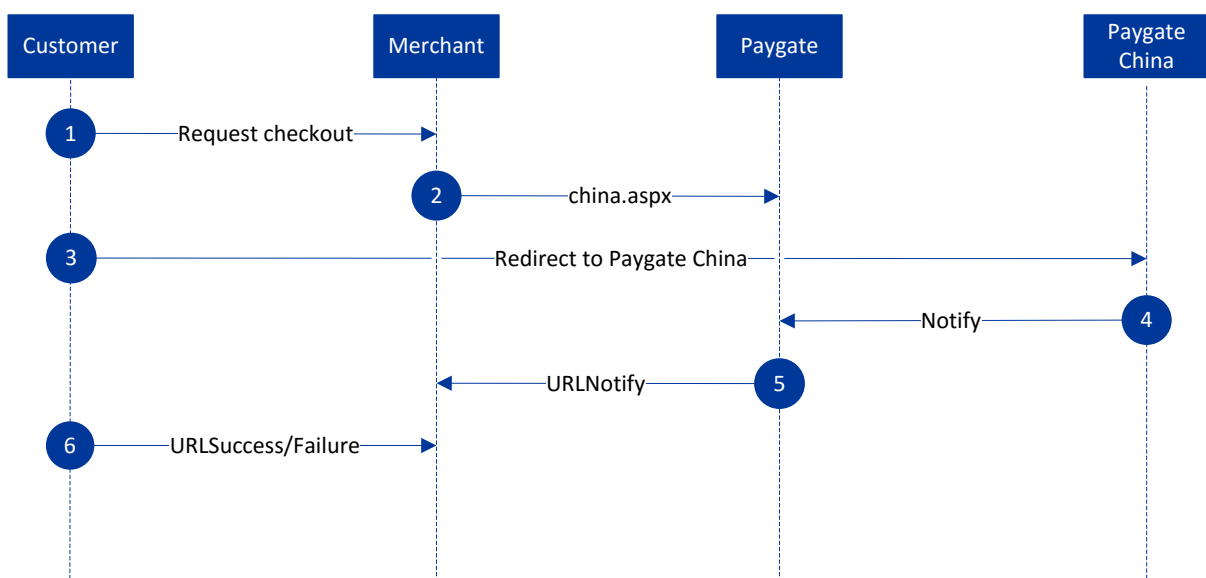
## General information about Paygate China

Computop operates a local Paygate in China to accelerate the payment processes and guarantee optimum availability. This is necessary because there are recurring problems with the internet connection to China. The operation of Paygate China in a data centre in Shanghai means you can be sure that all payment processes in your online shop are accessible at all times and quickly processed.

For online merchants China is a market of unlimited opportunity, but equally one that poses the greatest challenges. For several years China has topped the list of countries with the greatest growth potential for eCommerce. Chinese consumers spend their money above all on travel, electronics, sport, clothing, shoes and books, but also on health and beauty products. China is the second largest market worldwide for online payment with over 100 billion US Dollars annually (source: Data Monitor).

Further information can be found on the webpage of Computop ([www.computop.com/de/loesungen/globale-lokale-loesungen/payment-in-china/](http://www.computop.com/de/loesungen/globale-lokale-loesungen/payment-in-china/)).

## Process flow chart



Paygate China 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

## Calling the interface for Paygate China

Paygate China combines different payment methods via banks and systems such as Alipay in China. The selection of the method of payment takes place via the PayType and AccBank parameters, whose possible values are listed in following table.

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

<https://www.computop-paygate.com/China.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>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ans..30	O	Additional merchant's reference number, which is returned within the response
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. CNY Fen) 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 CNY permissible.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>OrderDesc</b>	ans..768	M	Description of the goods purchased and the prices
<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	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 <b>UserData</b> parameter instead.
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
<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 ReqID, Paygate will not carry out the payment, but will just return the status of the original transaction.
<b>PayType</b>	a3	M	Selected payment type, see table PayType
<b>AccBank</b>	ans..10	M	Bank Code: Required depending on PayType. Values in accordance with AccBank column in following table.
<b>Channel</b>	ans3	M	Selected processing method: B2B: Business-to-Business B2C: Business-to-Consumer ACC: Account of a PSP CBS: Cross Border Settlement MOB: Mobile (only with Alipay WAP)

<b>Timeout</b>	ans..3	O	<p>Time limit for a transaction (for domestic merchants only)  Details are given in the form of an integer plus an identifier:  m (minute)  h (hour)  d (day)</p> <p>Because only integer numbers are allowed, instead of 1.5 hours the value 90m must be used. If no or no valid value is transferred the parameter is ignored. If the value is greater than the allowed value the respectively maximum value is assumed.</p> <p>The admissible values depend on the PSP (see table below) and the channel.</p> <p>"ALP"  B2C, B2B, ACC, MOB -&gt; Time limit '1m' up to '15d'  CBS: Discrete number of minutes: 5,10, 15, 30, 60, 120,180, 300, 600, 720  Values in between are rounded to the next higher "step"</p> <p>"TEN"  B2C, B2B, ACC, CBS -&gt; (no limit known)</p> <p>"99B"  B2C, B2B, ACC -&gt; Number of minutes (no limit)</p> <p>"YEE"  CBS -&gt; Number of days from 1 to 15</p> <p>"LLP"  CBS, MOB -&gt; (no limit known)</p>
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Parameters for payments with Paygate China

The following table describes the result parameters that the Paygate transmits to your **URLNotify**, **URLSuccess** or **URLFailure**. 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 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

Response parameters for payments with Paygate China

With the PayType parameter, distinction must be made between OBT (Online Bank Trafer) for the use of the personal online banking of the respective bank and PSP (Payment Service Provider) for payment with an E-Wallet such as Alipay or Tenpay. The AccBank parameter finally defines the

bank concerned or the payment system. The following table shows the possible values and the associated payment service provider.

AccBank	PayType	Description
ABC	OBT	Agriculture Bank of China
BEA	OBT	Bank of East Asia
BOC	OBT	Bank of China
CBHB	OBT	China Bohai Bank
CCB	OBT	China Construction Bank
CEB	OBT	China Everbright Bank
CIB	OBT	China Industrial Bank CO. Ltd
CITIC	OBT	China CITIC Bank
CMB	OBT	China Merchants Bank
CMBC	OBT	China Minsheng Banking Corp. Ltd
COMM	OBT	Bank of Communications
CZB	OBT	China Zheshang Bank
EGB	OBT	Evergrowing Bank
GDB	OBT	China Guangfa Bank
HXB	OBT	Huaxia Bank
ICBC	OBT	Industrial and Commercial Bank of China
NBBANK	OBT	Bank of Ningbo
POSTGC	OBT	PostalSavings Bank of China
SDB	OBT	Shenzhen Development Bank
SHBANK	OBT	Bank of Shanghai
SPABANK	OBT	Pingan Bank
SPDB	OBT	Shanghai Pudong Development Bank
ALP	PSP	Alipay
CHP	PSP	ChinaPay
LLP	PSP	LianLian Pay
TEN	PSP	Tenpay
YEE	PSP	YeePay
99B	PSP	99Bill

AccBank and PayType parameters for the Paygate China

## 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
<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>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. CNY Fen) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a..3	M	Currency, three digits DIN / ISO 4217 Only CNY permissible.
<b>RefNr</b>	ns..30	O	Reference number of merchant (e.g. invoice number)
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for credits with Paygate China

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..64	M	Merchant transaction number, which must be unique
<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>RefNr</b>	ns..30	O	Reference number of merchant (e.g. invoice number)

Response parameters for credits with Paygate China