



WeChat

Integration Guide

Version 6.2.2

As of: 07.03.2018

Table of Contents

- About WeChat..... 4**
 - General information about WeChat4
 - Process flow charts4
- Paygate interface 7**
 - Definitions7
 - Call of Paygate interface for WeChat8
 - Credit with reference.....9

Document history

| Date | Name | Change |
|------------|-------------|--|
| 07.03.2018 | Peter Posse | AppID removed, new shop and error parameters added |
| 21.08.2017 | Peter Posse | First version |

ABOUT WECHAT

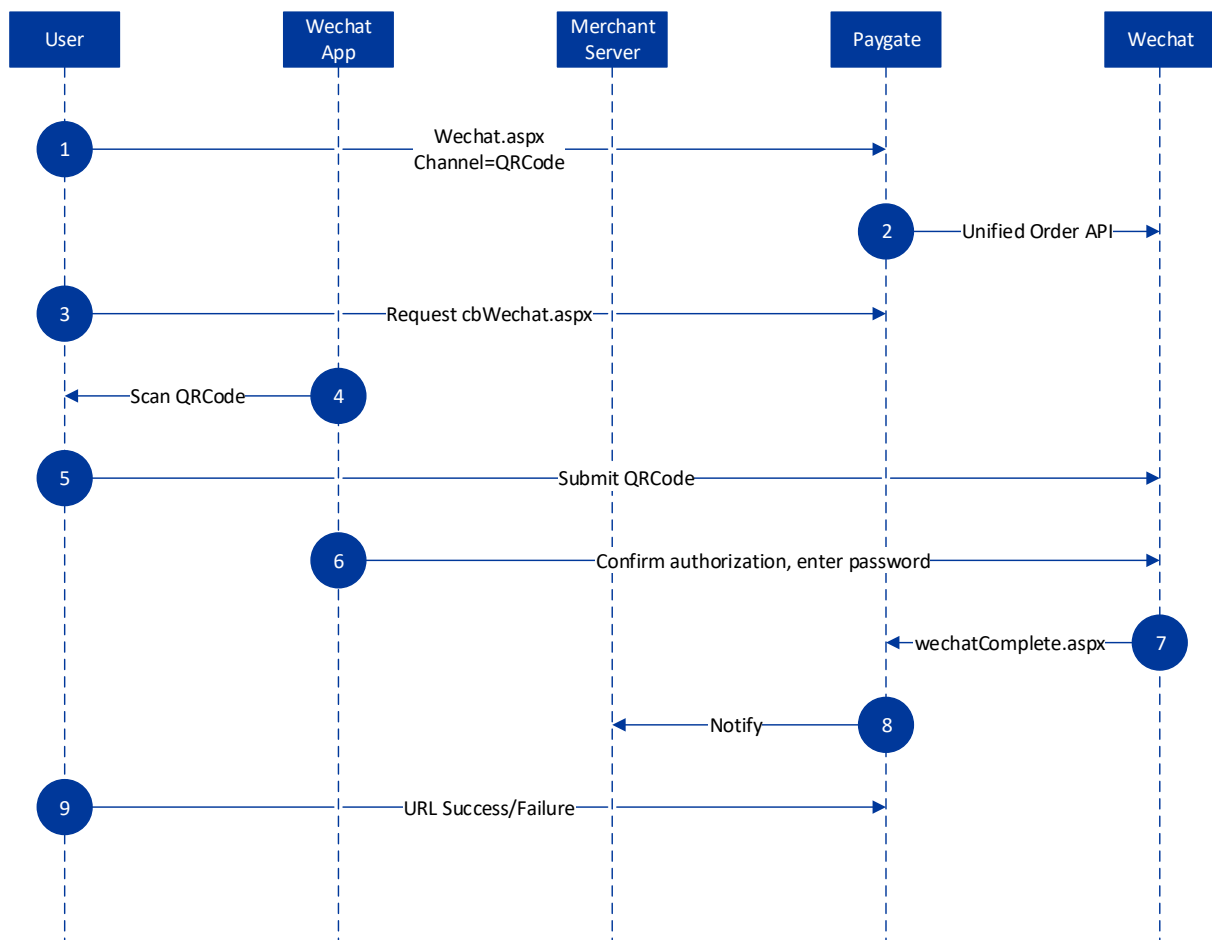
General information about WeChat



WeChat is a free, cross-platform and instant messaging application developed by Tencent. It was first released in January 2011 and was one of the largest standalone messaging apps by monthly active users. As of May 2016, WeChat has over a billion created accounts, 700 million active users; with more than 70 million outside of China (as of December 2015). In 2016, WeChat reached 864 million active users.

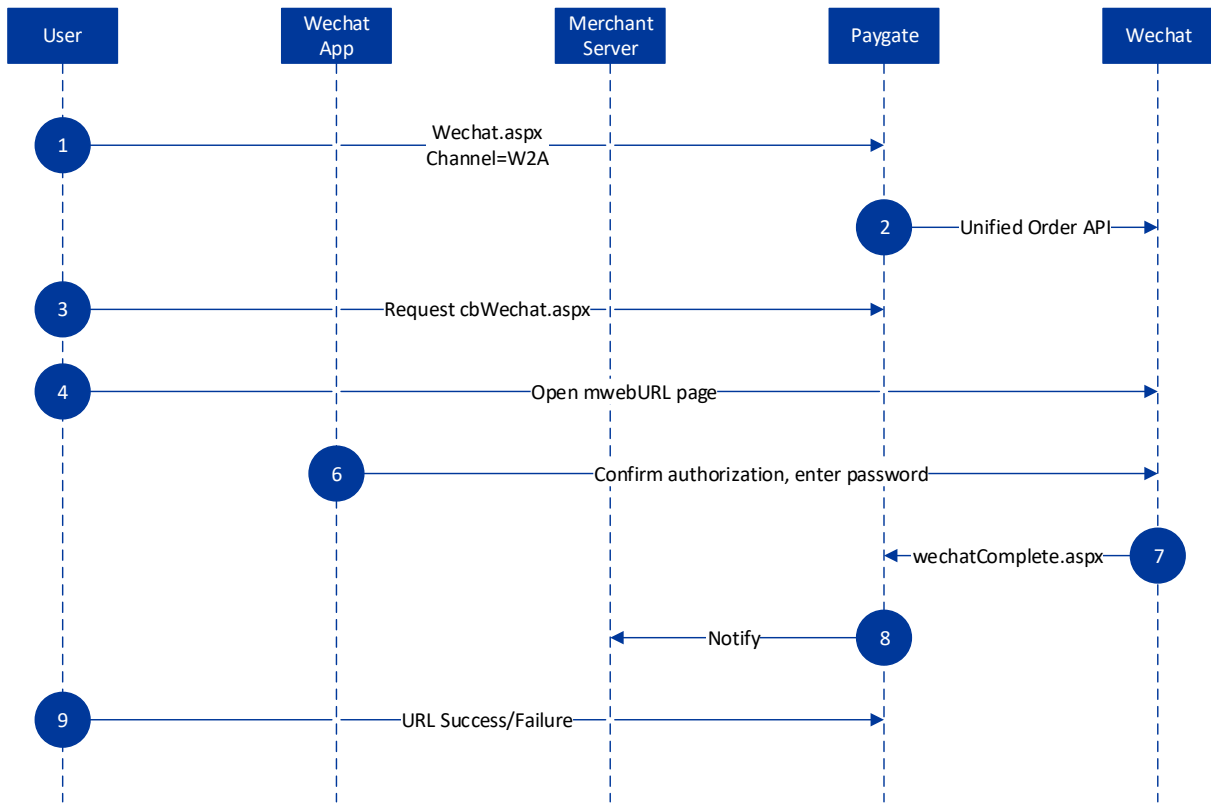
Process flow charts

QR Code



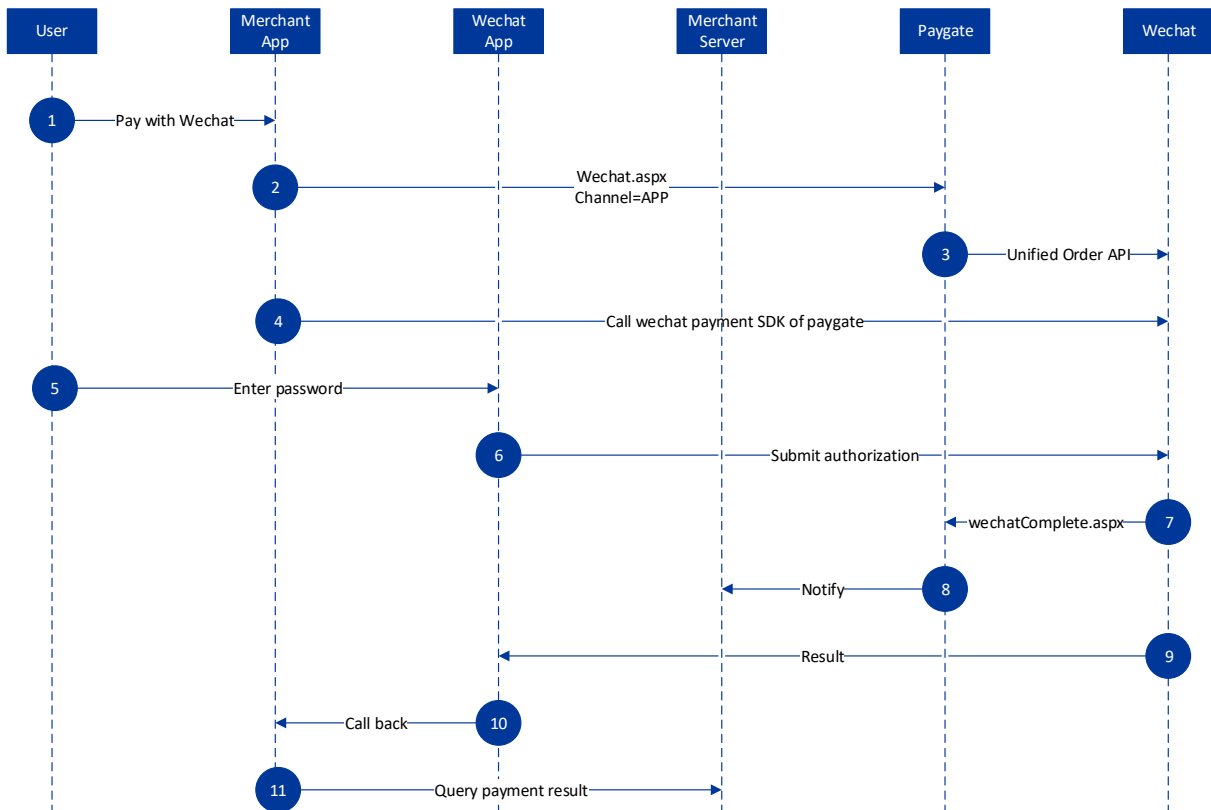
Process flow WeChat QR Code

W2A



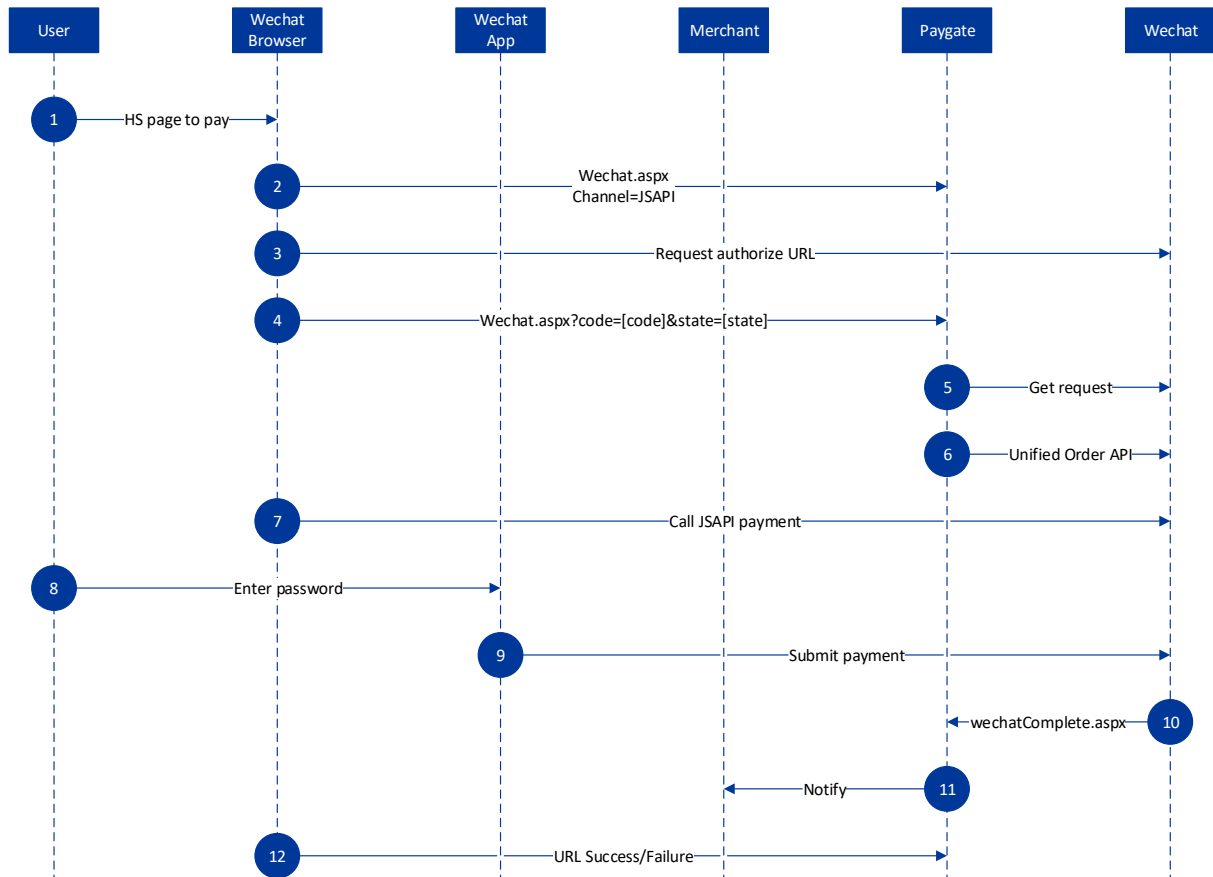
Process flow WeChat W2A

APP



Process flow WeChat APP

JSAPI



Process flow WeChat JSAPI

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.

Call of Paygate interface for WeChat

Please enter the following URL to process a WeChat payment via the Paygate form:

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

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

Notice: For INAPP requests (Channel=APP) the interface is called via a server-to-server connection.

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 |
| Channel | a..32 | M | WeChat payment method: QRCode: QR code payment. Display to the customer on PC web page. W2A: Merchant has its own mobile H5 page and supports third-party browsers. APP: Merchant has its own mobile H5 page JSAPI: |
| OrderDesc | an..128 | M | Description of purchased goods, unit prices etc. The special characters "#", "&", "%" and "+" are not permitted here. |
| OrderDesc2 | an..2048 | O | Detailed item list. Each item is separated by a semicolon (;). Example: BookID:10,BookPrice:120;PenID:10,Material:Steel |
| 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. |
| IPAddr | ns..16 | O | Fraud prevention: IP address |
| TimeOut | n..14 | O | Time limit for a transaction. Unit: minutes. At least 5 minutes. |



| | | | |
|----------------------|-----------|---|---|
| GoodsCategory | an..32 | O | Intended purpose on discount coupon. |
| ProductNr | a3 | C | Optional. If Channel=QRCode, then it's required. Equivalent of Product ID used to identify the product. For QRCode paymethod, merchant have to set it. |
| Limit | bool | O | If this is set the payment won't accept credit cards. |
| OpenID | an..32 | C | Optional. If Channel=JSAPI, then it's required. |
| ShopSystem | a..8 | C | Mandatory in case of W2A. Applied platform, options values: IOS/Android/WAP. |
| ShopName | an..120 | C | Mandatory in case of W2A. App's name for IOS/Android; Website's name for WAP. |
| ShopURL | an..128 | C | Mandatory in case of W2A. Bundle id in case of IOS; package name in case of Android; Wap url for WAP. |
| 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 payments with WeChat

The following table describes the result parameters that Paygate transmits to your **URLNotify**, **URLSuccess** or **URLFailure**. If you have specified the **Response=encrypt** parameter, the following parameters are sent 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 |
| 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) |
| UserData | ans..1024 | C | Not with Channel=INAPP: If specified at request, Paygate forwards the parameter with the payment result to the shop. |
| PrepayID | ans..64 | C | Only with Channel=INAPP: required for calling Paygate Payment SDK |
| CodeExt | an..32 | O | Wechat error code |
| ErrorText | ans..128 | O | Detailed Wechat error message |

Results parameters for URLNotify, URLSuccess and URLFailure

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 | a..3 | M | Currency code, three digits DIN / ISO 4217 |
| MAC | an64 | M | Hash Message Authentication Code (HMAC) with SHA-256 algorithm |
| RefNr | ns..30 | M | Unique reference number |

Parameters for credits of WeChat 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) |
| MAC | an64 | M | Hash Message Authentication Code (HMAC) with SHA-256 algorithm |
| RefNr | ns..30 | M | Unique reference number |
| CodeExt | an..32 | O | Wechat error code |
| ErrorText | ans..128 | O | Detailed Wechat error message |

Result parameters for credits of WeChat payments