Pyxpro Online Payment Integration Guide

(Wechat Official Account)

1 Introduction

1.1 Audience

The readers of this document would be technical engineers who will conduct integration work with Pyxpro payment platform, as well as people who want to learn the business scenarios of Pyxpro online payment services.

1.2 Change History

Date	Version	Comments
2019-02-10	1.0	First edition

2 Message Structure

2.1 Message Sample

All the messages communicated with Pyxpro must be sent over HTTPS with POST command and payload of the message is encoded by xml format. Message signature is required to secure the message transmission.

See example in below:

Request Message

```
<xml>
<service>pay.weixin.native.intl</service>
<charset>UTF-8</charset>
<version>2.0</version>
<sign_type>MD5</sign_type>
<mch_id>157590000059</mch_id>
<out_trade_no>Q3NL0000442503084402</out_trade_no>
<device_info>SN12345678</device_info>
<body><![CDATA[iPhone]]></body>
<total_fee>10</total_fee>
<mch_create_ip><![CDATA[103.218.216.123]]></mch_create_ip>
<notify_url><![CDATA[http://www.baidu.com]]></notify_url>
<time_start>20180526202310</time_start>
<time_expire>20180527202310</time_expire>
<op_user_id>10001</op_user_id>
<product_id>123456789</product_id>
<nonce_str>ibuaiVcKdpRxkhJA</nonce_str>
<sign>2444D06685977A585F4C98D7C796BD92</sign>
</xml>
```

Response Message, ‘status’ field indicates the result.

0 – success

others – failure

Both ‘status’ and ‘result_code’ are 0 if success

```
<xml>
```

```
<status>0</status>
<appid>wx2006c4c3da91e7b1</appid>
<charset>UTF-8</charset>
<code_img_url>https://pay.wepayez.com/pay/qrcode?uuid=weixin%3A%2F%2Fwxpa
y%2Fbizpayurl%3Fpr%3DUWAhBq5</code_img_url>
  <code_url>weixin://wxpay/bizpayurl?pr=UWAhBq5</code_url>
  <device_info>SN12345678</device_info>
  <mch_id>157590000059</mch_id>
  <nonce_str>ibuaiVcKdpRxkhJA</nonce_str>
  <result_code>0</result_code>
  <sign>93AFEEB54BCF4825547761CCB6CBF241</sign>
  <sign_type>MD5</sign_type>

  <uuid>0d0ef3f2d344e2cc2fbd679ed3aa19e71</uuid>
  <version>2.0</version>
</xml>
```

Common error case 1:

Communication error, find details in 'message' field

```
<xml>
  <version>2.0</version>
  <charset>UTF-8</charset>
  <status>400</status>
  <message>Signature error</message>
</xml>
```

Common error case 2:

Business processing error, find details in 'err_code_des' field

```
<xml>
```

```
<status>0</status>

<message><![CDATA[OK]]></message>
<appid><![CDATA[wx2421b1c4370ec43b]]></appid>
<mch_id><![CDATA[10000100]]></mch_id>
<device_info><![CDATA[1000]]></device_info>
<nonce_str><![CDATA[sthBJ9QyUG6vkrjJ]]></nonce_str>
<sign><![CDATA[6277A96D7875D4FF23AA7B6A4C3046AB]]></sign>
<result_code>1</result_code>
<err_code><![CDATA[AUTHCODE_EXPIRE]]></err_code>

<err_code_des><![CDATA[QR code is expired, fresh QR Code]]></err_code_des>

</xml>
```

2.2 Test Information

Test server URL:

https://pay.wepayez.com/pay/gateway

Test merchant account:

157590000059

Signature key:

c43a467098af250171cd787e56d03979

3 Payment Interface Description

3.1 Official Account Payment

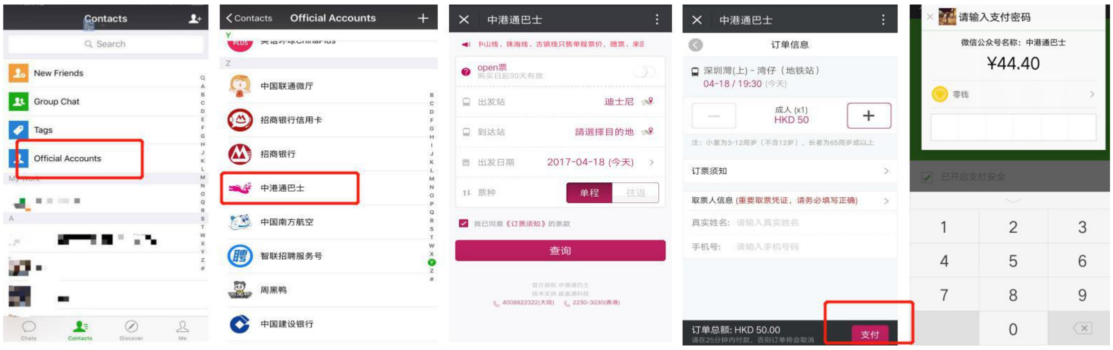
3.1.1 Scenario

Once a merchant has opened an Official Account and enabled the payment feature, users can pay for goods and services inside the Official Account. When the user visits the merchant's H5 page in the WeChat APP, the merchant invokes the WeChat payment module to complete the payment by calling the JSAPI interface provided by WeChat payment on the H5 page.

Please see the most popular use cases in below:

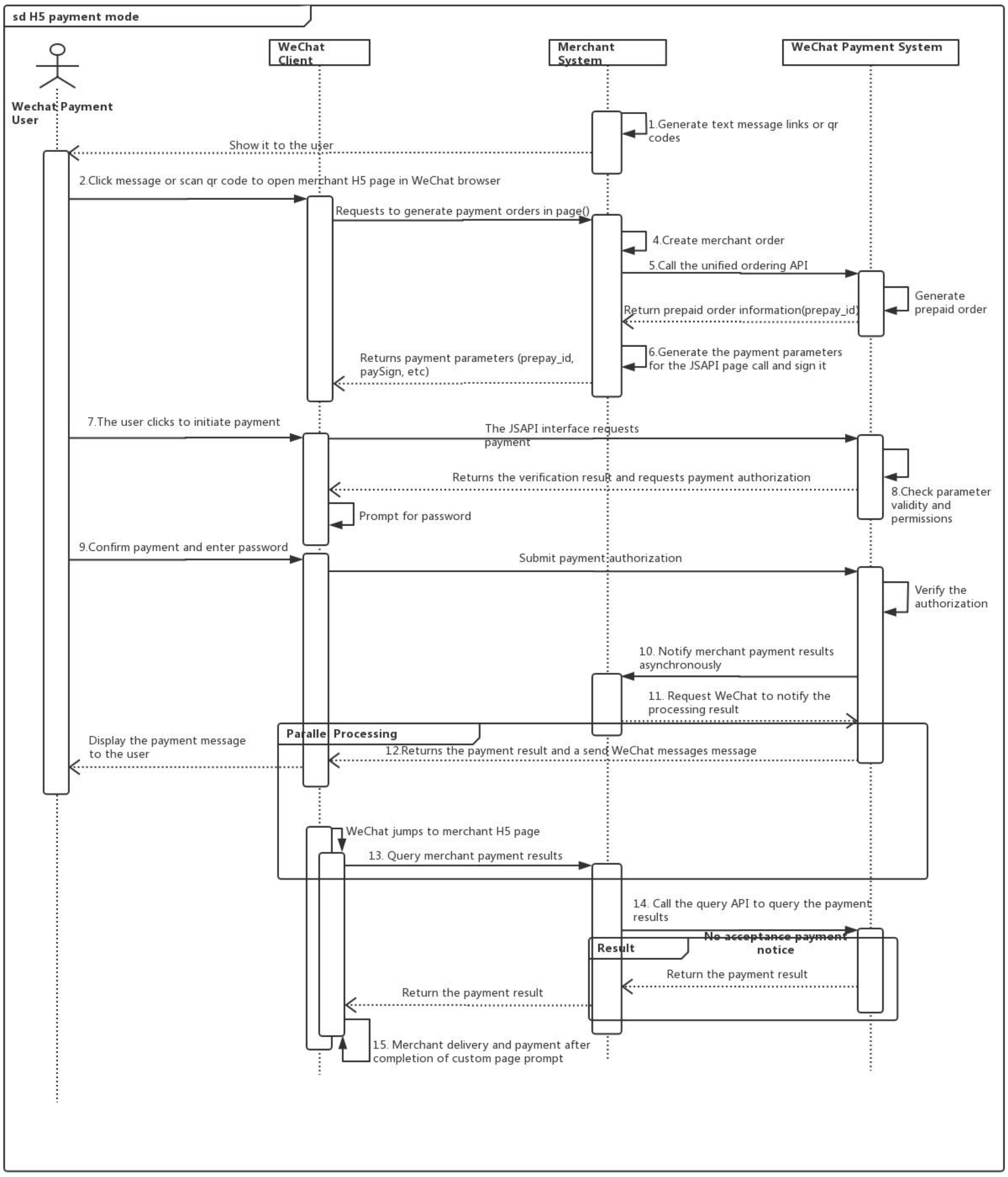
a) An user visits the merchant Official Account and goes to a payment page.

b) An user visits the payment page to make a payment, when their friends share the merchant online store link in the friends chat group.



This interface is mainly used in online payment scenarios, such as online malls and online ticket purchases on mobile.

3.1.2 System interaction flow


sd H5 payment mode
Wechat Payment User
WeChat Client
Merchant System
WeChat Payment System
1.Generate text message links or qr codes
Show it to the user
2.Click message or scan qr code to open merchant H5 page in WeChat browser
Requests to generate payment orders in page()
4.Create merchant order
5.Call the unified ordering API
Generate prepaid order
Return prepaid order information(prepay_id)
6.Generate the payment parameters for the JSAPI page call and sign it
Returns payment parameters (prepay_id, paySign, etc)
7.The user clicks to initiate payment
The JSAPI interface requests payment
Returns the verification result and requests payment authorization
8.Check parameter validity and permissions
Prompt for password
9.Confirm payment and enter password
Submit payment authorization
Verify the authorization
10. Notify merchant payment results asynchronously
11. Request WeChat to notify the processing result
Paralle Processing
Display the payment message to the user
12.Returns the payment result and a send WeChat messages message
WeChat jumps to merchant H5 page
13. Query merchant payment results
14. Call the query API to query the payment results
Result
No acceptance payment notice
Return the payment result
Return the payment result
15. Merchant delivery and payment after completion of custom page prompt

Step 5： The merchant system creates an order and query the order number by calling Pyxpro payment.
Step 10： The Pyxpro payment server asynchronously sends the payment status to the merchant's notify_url, after the user completes the payment by scanning the code.
Step 14：If the merchant system does not receive the asynchronous notification, it can actively call the order query interface to query the payment status.

3.1.3 Create Payment Order Interface

Request Message

Parameter	Is Mandatory	Data Type	Description
service	Y	String(32)	Service type: pay.weixin.jspay
version	N	String(8)	Interface version, default is 2.0
charset	N	String(8)	Message encoding charset, fixed value: UTF-8
sign_type	N	String(8)	Signature algorithm fixed value: MD5
mch_id	Y	String(32)	Unique merchant id allocated by Pyxpro
is_raw	N	String(1)	1 – true 0 - false Default 0
out_trade_no	Y	String(32)	Unique payment order id generated by merchant system. Maximum is 32 characters, only alphabet, digit and underscore and mixture.
device_info	N	String(32)	Terminal number
body	Y	String(127)	Product/service
sub_openid	Y	String(128)	The openId corresponding to the merchant Official Account that WeChat users follow（Note：This parameter needs to be passed only for official use, not for testing）
sub_appid	Y	String(32)	WeChat Official Account Platform AppID
attach	N	String(127)	Extension message for merchant system
total_fee	Y	Int	Value of payment amount Value unit is 1% of the currency. For example, If payment amount is HKD 10.00, the value of total_fee should be 1000
mch_create_ip	Y	String(16)	IP address of the merchant system (client)

notify_url	Y	String(255)	Callback url provided by merchant system to receive asynchronous notification of payment result from Pyxpro platform. Less than 255 characters, URL format as http://wap.tenpay.com/tenpay.asp, can be accessed from public network
callback_url	N	String(255)	The merchant service address to which WeChat jumps after the transaction is completed, eg: http://wap.tenpay.com/callback.asp Note: This address serves only as a jump to the front page and requires the notify_url notification result as the final payment result.This parameter is valid only in a non-native form.
time_start	N	String(14)	Time to initial payment order, format: yyyyMMddHHmmss, e.g. 25thSept, 2009, 9:10:10 value: 20091225091010 Time Zone: GMT+8 beijing
time_expire	N	String(14)	Expiry of payment order Same format as time_start
goods_tag	N	String(32)	Promotion flag supported by Wechat
nonce_str	Y	String(32)	Random string less than 32 characters
limit_credit_pay	N	String(32)	If credit card is supported, 1 - not allowed, other - allowed
sign	Y	String(32)	Message signature with MD5

Response Message

Parameter	Is Mandatory	Data Type	Description
version	Y	String(8)	Default 2.0。
charset	Y	String(8)	Fixed :UTF-8

sign_type	Y	String(8)	Fixed:MD5
appid	Y	String(32)	The AppID of the official account of Pyxpro payment platform service provider
status	Y	String(16)	0 - success other - failure this field indicates communication status of the request. Only 'result_code' 0 indicates request is successful.
message	N	String(128)	Error description of communication failure
Only return when 'status' is 0			
result_code	Y	String(16)	Request status 0 - success other - failure
mch_id	Y	String(32)	Unique merchant id allocated by Pyxpro
device_info	N	String(32)	Terminal number
nonce_str	Y	String(32)	Random string, less than 32 characters
err_code	N	String(32)	Error code
err_msg	N	String (128)	Error description
sign	Y	String(32)	Message sigature
Only returns when both 'status' and 'result_code' are 0			
token_id	Y	String(64)	A platform-generated prepayment ID that is invoked in a subsequent interface
pay_info	Y	String	Returns a json format string when is_raw is 1, used for raw js payments

Notes

After the message interaction between the follower and the WeChat

Official Account, the Official Account can get the openId of the follower. You can refer to the address to get the openid:

https://mp.weixin.qq.com/wiki?t=resource/res_main&id=mp1421140842&token=&lang=zh_CN

To use the test merchant number, you do not need to pass the user ‘openid’. To switch the official merchant number, you need to get the ’openid’, add the ‘sub_openid’ field in the request parameter, and pass the obtained ‘openid’ value to the ’sub_openid’. Before switching to the official merchant number to pass ‘sub_openid’, you need to provide the official merchant number and official account ‘appid’ to be configured by the Pyxpro payment platform. If there is no configuration, will throw a ‘sub_appid and sub_openid not match’ error.

Native js payment interface

Interface needs attention, all request parameters are character types, so you need to pay attention to using JavaScript, PHP, etc.

Request Message:

Parameter	Is Mandatory	Data Type	Description
appId	Y	String	The information in pay_info returned from the initialized request
timeStamp	Y	String	The information in pay_info returned from the initialized request
nonceStr	Y	String	The information in pay_info returned from the initialized request
package	Y	String	The information in pay_info returned from the initialized request
signType	Y	String	The information in pay_info returned from the initialized request
paySign	Y	String	The information in pay_info returned from the initialized request

Response Message:

Parameter	Description
err_msg	get_brand_wcpay_request:ok (Payment successful) get_brand_wcpay_request:cancel (Cancel during payment) get_brand_wcpay_request:fail (Payment failed)

Note： If the merchant implements the native payment interface, it must provide the payment authorization directory configured by the service provider, otherwise the payment cannot be adjusted on the WeChat Official Account (It can be conducted in the WeChat file transfer assistant of the mobile phone, during the test).

Refer to the following example:

```
WeixinJSBridge.invoke(
'getBrandWCPayRequest',
{

"appId" : "wx2421b1c4370ec43b",
"timeStamp":" 1395712654",
"nonceStr" : "e61463f8efa94090b1f366cccfbbb444",
"package" : "prepay_id=u802345jgfjsdfgsdg888",
"signType" : "MD5",
"paySign" : "70EA570631E4BB79628FBCA90534C63FF7FADD89"
},function(res){

    if(res.err_msg == "get_brand_wcpay_request:ok" ) {}

// You can use the above methods to determine payment results. The result of the WeChat
payment will return OK after the user has paid successfully, but it is not guaranteed to be
absolutely reliable.
});
```

3.1.4Official Account JS Payment Interface

Initialize the JSAPI request for delivery verification by generating the ‘token_id’, which is recommended.

Request Message

Request URL:
https://pay.wepayez.com/pay/jsIntl

The request is made over HTTP.
Query string：https://pay.wepayez.com/pay/jsIntl?token_id=xxx，
eg: https://pay.wepayez.com/pay/jsIntl?token_id=9a0610bc519e782e6275e8c7dd94a445

Click the link in the Official Account to invoke the reply. (Users enter this link when they click the

WeChat pay button on the page. This approach requires the configuration of a fixed payment authorization directory :https://pay.wepayez.com/pay/, But unlike the native jsapi, which pays for subsequent operations to get parameters, the assembled link can be called in WeChat's file transfer assistant at test time.)

Parameter	Is Mandatory	Date Type	Description
token_id	Y	String(64)	The pre-payment ID generated by Pyxpro payment platform

3.1.5 Asynchronous Notification

Introduction

Asynchronous notification will be sent to 'notify_url' which is past by merchant system in request message. Pyxpro will send payment result to this URL after consumers complete the payment on mobile. Merchant system should response plain text 'success' to Pyxpro platform in less than 5 seconds once receiving the notification. Otherwise Pyxpro regards the failure of this notification and retry to send the same message in the regular frequency (0/15/15/30/180/1800/1800/1800/1800/3600 unit: second) until receiving correct response.

Notes:

Merchant system should verify out_trade_no and total_fee to be same as request message before updating order status.

Notification message is sent by POST command to notify_url.

Callback message

Parameter	Is Mandatory	Data Type	Description
version	Y	String(8)	Fixed:2.0
charset	Y	String(8)	Fixed:UTF-8。
sign_type	Y	String(8)	Fixed:MD5
status	Y	String(16)	0 - success other - failure
message	N	String(128)	Error message
Only return when 'status' is 0			

result_code	Y	String(16)	Payment request processing result 0 - success other - failure
mch_id	Y	String(32)	Unique merchant id allocated by Pyxpro
device_info	N	String(32)	Terminal Number
nonce_str	Y	String(32)	Random string less than 32 characters
err_code	N	String(32)	Error code
err_msg	N	String (128)	Error description
sign	Y	String(32)	Message signature in MD5
Only return when both 'status' and 'result_code' are 0			
openid	Y	String(128)	Unique id of Wechat user
trade_type	Y	String(32)	pay.weixin.native.intl
is_subscribe	Y	String(1)	Y - subscribed N - not subscribed
pay_result	Y	Int	0 - success Other - failure
pay_info	N	String(64)	Error message in failure case
transaction_id	Y	String(32)	Unique order id generated by Pyxpro
out_transaction_id	Y	String(32)	Unique order id generated by Wechat
sub_is_subscribe	N	String(1)	Y - subscribed N - not subscribed
sub_appid	N	String	Appid of the merchant
sub_openid	N	String(128)	Unique id of Wechat user associated with merchant Appid
out_trade_no	Y	String(32)	Unique order id generated by merchant system

total_fee	Y	Int	Amount of payment order
coupon_fee	N	Int	Consumer paid amount = total_fee - coupon fee, coupon fee<= total_fee
fee_type	Y	String(8)	Currency code of merchant collecting payment
attach	N	String(127)	Echo of the extension message added by merchant
bank_type	Y	String(16)	Bank name
bank_billno	N	String(32)	Bank order number
time_end	Y	String(14)	Transaction completed time, format: yyyyMMddHHmmss, time zone: GMT+8 beijing。
cash_fee	Y	Int	Amount paid by cash wallet, unit 1% of CNY
cash_fee_type	N	String(16)	Currency code of cash wallet, fixed CNY
rate	Y	String(16)	FX rate between CNY and merchant collecting currency

Response to callback

Merchant should response plain text ‘success’ after receiving notification.

Return Parameter	Description
success	Not case sensitive Pyxpro will stop sending notification.
Fail or other string	Pyxpro will continue to re-send notification in the regular period.

3.1.6 Query Payment Order

Introduction

Merchant system can query order details by out_trade_no or Pyxpro transaction id.

Request message is sent over HTTPS POST command.

Request Message

Parameter	Is Mandatory	Data Type	Description
service	Y	String(32)	Service Type unified.trade.query
version	N	String(8)	Fixed: 2.0
charset	N	String(8)	Fixed:UTF-8
sign_type	N	String(8)	Fixed: MD5
mch_id	Y	String(32)	Unique merchant id allocated by Pyxpro
out_trade_no	N	String(32)	Unique order id generated by merchant system
transaction_id	N	String(32)	Unique order id generated by Pyxpro. Either ‘out_trade_no’ or ‘transaction_id’ should be filled
nonce_str	Y	String(32)	Random string, less than 32 characters
sign	Y	String(32)	Message Signature in MD5

Response Message

Parameter	Is Mandatory	Data Type	Description
version	Y	String(8)	Interface version Fixed:2.0。
charset	Y	String(8)	Fixed:UTF-8。
sign_type	Y	String(8)	Fixed:MD5
status	Y	String(16)	Request message communication status. 0 - success other - failure
message	N	String(128)	Error message

Only return when ‘status’ is 0			
result_code	Y	String(16)	Request message processing status 0 – success other – failure
mch_id	Y	String(32)	Unique merchant id allocated by Pyxpro
device_info	N	String(32)	Terminal Number
nonce_str	Y	String(32)	Random string, less than 32 characters
err_code	N	String(32)	Error code
err_msg	N	String (128)	Error description
sign	Y	String(32)	Message signature in MD5
Only return when both ‘status’ and ‘result_code’ are 0			
trade_state	Y	String(32)	Payment order status: **SUCCESS** – success **REFUND** – payment is refunded **NOTPAY** - order is created but not paid **CLOSED** - payment order is closed **PAYERROR** - other errors, e.g. issuer bank reject
Only return when ‘trade_state’ is SUCCESS			
openid	Y	String(128)	Appid of Wechat user
appid	Y	String(32)	Payment SP Wechat official id
trade_type	Y	String(32)	pay.weixin.native.intl
is_subscribe	Y	String(1)	If subscribe Wechat official account Y - subscribed N - no subscribed
transaction_id	Y	String(32)	Unique payment order id generated by Pyxpro
out_transaction_id	Y	String(32)	Unique transaction id generated by Wechat

out_trade_no	Y	String(32)	Unique payment order id generated by merchant system, only including alphabet, digit , underscore and mixture
total_fee	Y	Int	Total value of the payment Unit is 1% of the currency For example in HKD: 1000 indicates HKD 10.0,
coupon_fee	N	Int	Coupon amount Coupon amount <= total_fee Cash paid = total_fee - coupon amount
fee_type	Y	String(8)	Merchant payment collecting currency. Currency code compliant with ISO 4217 standard
attach	N	String(127)	Echo data from request message filled by merchant system
bank_type	Y	String(16)	Bank name
bank_billno	N	String(32)	bank bill number if available
time_end	Y	String(14)	Completed time of payment transaction Format: yyyyMMddHHmmss, Time Zone: GMT+8 beijing
cash_fee	Y	Int	Amount is paid by cash wallet, unit is 1% of the currency
cash_fee_type	N	String(16)	Currency code, Fixed: CNY
rate	Y	String(16)	FX rate between CNY and merchant payment collecting currency

3.1.7 Close Order

Introduction

Merchant system can close the unpaid order to prevent double pay.

Notes:

Payment order can only be closed at least 5 minutes after it is created.

Request Message

Parameter	Is Mandatory	Data Type	Description
service	Y	String(32)	Service Name: unified.trade.close
version	N	String(8)	Fixed: 2.0
charset	N	String(8)	Fixed: UTF-8
sign_type	N	String(8)	Fixed: MD5
mch_id	Y	String(32)	Unique merchant id allocated by Pyxpro
out_trade_no	Y	String(32)	Unique payment order id generated by merchant system
nonce_str	Y	String(32)	Random string, less than 32 characters
sign	Y	String(32)	Message signature in MD5

Response Message

Parameter	Is Mandatory	Data Type	Description
version	Y	String(8)	Fixed: 2.0
charset	Y	String(8)	Fixed: UTF-8
sign_type	Y	String(8)	Fixed: MD5

status	Y	String(16)	Message communication status: 0 - success other – failure
message	N	String(128)	Error message
Only return when ‘status’ is 0			
result_code	Y	String(16)	Request processing status: 0 - success, payment order in closed status cannot be paid anymore. Other - failure, close payment order failed, you need try again
mch_id	Y	String(32)	Unique merchant id allocated by Pyxpro
nonce_str	Y	String(32)	Random string, less than 32 characters
err_code	N	String(32)	Error code
err_msg	N	String (128)	Error description
sign	Y	String(32)	Message signature in MD5

3.1.8 Refund

Introduction

Consumers may request to refund transactions if he/she does not satisfy goods and service merchants provide. And funds paid will be returned to the consumers’ Alipay/Wechat pay wallet or bankcard linked to the wallets if merchants refund the original transactions.

Transaction status will be updated in 1-2 minutes once the refund call is completed.

Notes:

1. Refund should be initiated before 90 days of the completed time of the original transaction.

2. Funds may not return back to consumers' wallets or the linked bank accounts immediately and time of delay depends on business process of each bank. Usually, 1-3 days delay after the refund call is completed.

3. Input parameter 'out_refund_no' generated by merchant system should be unique.

   Retry with the same 'out_refund_no' for unsuccessful refunds calls.

   Partial refund is allowed unless the total refund amount reaches the original transaction amount. And coupon cannot be refunded.

4. Most banks in China allow refund transactions, but few banks may not support. Merchants have to find other way to return money back to consumers.

Request Message

Parameter	Is Mandatory	Data Type	Description
service	Y	String(32)	Interface type: unified.trade.refund
version	N	String(8)	Default is 2.0
charset	N	String(8)	Fixed: UTF-8
sign_type	N	String(8)	Fixed:MD5
mch_id	Y	String(32)	Merchant ID allocated by Pyxpro platform
out_trade_no	Y	String(32)	Unique id of the original transaction generated by merchant system, less than 32 characters
transaction_id	N	String(32)	Unique transaction id generated by Pyxpro platform transaction_id has high priority if both 'out_trade_no' and 'transaction_id' are provided

out_refund_no	Y	String(32)	Unique id of the refund transaction generated by merchant system. One refund for multiple refund calls with the same 'out_refund_no'. Please retry with the same 'out_refund_no' for unsuccessful refund calls.
total_fee	Y	Int	Amount of the original order, unit is 1% of the currency, e.g. if collecting currency is EUR, 100 indicates 1EUR
refund_fee	Y	Int	Amount of the refund call, unit is 1% of the currency. Partial refund is supported, and the summary of the all refund transactions cannot exceed the original amount
op_user_id	Y	String(32)	Casher id
refund_channel	N	String(16)	ORIGINAL- refund to the same funds source of the original transaction Default value: ORIGINAL
nonce_str	Y	String(32)	Random string, less than 32 characters
sign	Y	String(32)	MD5 signature

Response Message, XML encoding

Parameter	Is Mandatory	Data Type	Description
version	Y	String(8)	Fixed: 2.0
charset	Y	String(8)	Fixed: UTF-8
sign_type	Y	String(8)	Fixed: MD5
status	Y	String(16)	Message communication status: 0 - success other - failure

message	N	String(128)	Error message, return when status is not 0
Only return when status is 0			
result_code	Y	String(16)	0 - success other - failure, please retry
mch_id	Y	String(32)	Merchant ID allocated by Pyxpro platform
device_info	N	String(32)	Device number
nonce_str	Y	String(32)	Random string, less than 32 characters
err_code	N	String(32)	Error code
err_msg	N	String (128)	Error description
sign	Y	String(32)	MD5 signature
Only return when both status and result_code is 0			
transaction_id	Y	String(32)	Order id generated by Pyxpro platform
out_trade_no	Y	String(32)	Unique order id of the original transaction generated by merchant system
out_refund_no	Y	String(32)	Unique refund transaction id generated by merchant system
refund_id	Y	String(32)	Refund transaction id generated by Pyxpro platform
refund_channel	Y	String(16)	Only support: ORIGINAL
refund_fee	Y	Int	Amount of this refund request, unit is 1% of the currency
coupon_refund_fee	N	Int	Amount of the coupon refunded, reserved.

3.1.9 Query Refund Order

Introduction

Merchant system can query refund order status after calling refund interface. The status of the refund transaction will delay several minutes and funds will return back in around 3 days.

Request Message

Parameter	Is Mandatory	Date Type	Description
service	Y	String(32)	Inteface Type: unified.trade.refundquery
version	N	String(8)	Fixed: 2.0
charset	N	String(8)	Fixed: UTF-8
sign_type	N	String(8)	Fixed: MD5
mch_id	Y	String(32)	Merchant ID allocated by Pyxpro platform
out_refund_no	N	String(32)	Unique ID of the refund transaction generated by merchant system
refund_id	N	String(32)	Unique ID of the refund transaction generated by Pyxpro platform. Refund_id has high priority if out_refund no is provided either.
nonce_str	Y	String(32)	Random string, less than 32 characters
sign	Y	String(32)	MD5 signature

Response Message

Parameter	Is Mandatory	Data Type	Description
version	Y	String(8)	Interface version, fixed: 2.0。
charset	Y	String(8)	Fixed: UTF-8。
sign_type	N	String(8)	Fixed: MD5
status	Y	String(16)	Message communication status: 0 - success other - failure
message	N	String(128)	Error message
Only returns when status is 0			
result_code	Y	String(16)	0 - success other - failure
mch_id	Y	String(32)	Merchant ID allocated by Pyxpro Platform
device_info	N	String(32)	Device number

nonce_str	Y	String(32)	Random string , less than 32 characters
err_code	N	String(32)	Error code
err_msg	N	String (128)	Error message
sign	Y	String(32)	MD5 signature
Only return when status and result_code is 0			
transaction_id	Y	String(32)	Unique id of the original transaction generated by Pyxpro platform
out_trade_no	Y	String(32)	Unique id of the original transaction generated by merchant system
refund_count	Y	Int	Refund counts
out_refund_no_$n	Y	String(32)	Unique id of the refund transaction generated by merchant system
refund_id_$n	Y	String(32)	Unique id of the refund transaction generated by Pyxpro platform
refund_channel_$n	Y	String(16)	Only support:ORIGINAL
refund_fee_$n	Y	Int	Amount of this refund request, unit is 1% of the currency
coupon_refund_fee_$n	N	Int	Reserved, refund amount of coupon
refund_time_$n	N	String(14)	yyyyMMddHHmmss
refund_status_$n	Y	String(16)	Refund transaction status: SUCCESS FAIL PROCESSING NOTSURE— unknown status, please retry CHANGE— consumer’ s bank rejected refund and funds remain in merchant account, should find other refund means
$n index of the refund transaction number in case of multi-refund requests, value from 0 to($refund_count-1), e.g if refund_count has value:2, it means there are two partial refund transactions,0 for 1st refund, “1” for 2nd refund			

3.1.10 Get Open Id

Introduction

Get the openId for the WeChat payment, access within WeChat.

Interface Url

https://wechat.easyeuro.eu/ops/api/auth/openid

Request Method

GET

Request Message

Parameter	Is Mandatory	Data Type	Description
merchantId	Y	String	Unique merchant id allocated by Pyxpro
timestamp	Y	String	Timestamp
redirectUri	Y	String	Callback url provided by merchant system to receive asynchronous notification of payment result from Pyxpro platform. (The url should be encode by UrlEncoder.)
sign	Y	String	Message signature with MD5(See example)

Response Message

Parameter	Is Mandatory	Data Type	Description
openId	Y	String	‘openid’ return by callback url

resultCode	Y	String	‘resultCode’ return by callbakck url S0000：Success S1001：Systme error S1002：Signature error S1003：Duplicate request S1003：Merchant key is error S2001：Failed to get WeChat code S2002：Failed to get WeChat openId

Demo

Encode URL

encodeUri = UrlEncoder.encode(uri);

Signature Algorithm

Step 1:

place all data sent or received into dataset M, then sort all non-null parameters in ascending order according to their ASCII codes, then assembling in key-value pair format (i.e. key1=value1&key2=value2…) and set as stringA.

Step 2: Signature with MD5

sign = MD5(merchantId=124500000001&merchantKey=abc321e32ef8g9bc &redirectUri= https%3A%2F%2Fwww.baidu.com &timestamp=1573438677456)

Request Demo

https://wechat.easyeuro.eu/ops/api/auth/openid?merchantId=124500000001&timestamp=1573438677456&redirectUri=https%3A%2F%2Fwww.baidu.com&sign=0B77F2137064885C2455AD86501845D1

Response Demo

https://www.baidu.com/?openId=o3rlC09-GuhhveDTI5emilskcG2o&resultCode=S0000

4 Signature Algorithm

Step 1:

place all data sent or received into dataset M, then sort all non-null parameters in ascending order according to their ASCII codes, then assembling in key-value pair format (i.e. key1=value1&key2=value2…) and set as stringA. Keep key and value in raw value without URL encoding.

Notes:

1. ‘Sign’ and null-value parameters should be excluded from signature string

2. Additional parameters may be introduced in later upgrading release, please consider this case in your design

For example:

stringA="
body=iPhone&charset=UTF-8&device_info=SN12345678&mch_create_ip=103.218.216.123&mch_id=157590000059&nonce_str=ibuaiVcKdpRxkhJA&notify_url=http://www.baidu.com&op_user_id=10001&out_trade_no=Q3NL0000442503084402&product_id=123456789&service=pay.weixin.native.intl&sign_type=MD5&time_expire=20180527202310&time_start=20180526202310&total_fee=10&version=2.0 ";

Step 2:

Append “key=” + <merchant signature key> to stringA and then sign the new string in MD5 algorithm and covert the signed string in uppercase Hex format.

For example:

Merchant signature Key: c43a467098af250171cd787e56d03978,

stringB=stringA + “&key= c43a467098af250171cd787e56d03978”, then you get:

“body=iPhone&charset=UTF-8&device_info=SN12345678&mch_create_ip=103.218.216.123&mch_id=157590000059&nonce_str=ibuaiVcKdpRxkhJA&notify_url=http://www.baidu.com&op_user_id=10001&out_trade_no=Q3NL0000442503084402&product_id=123456789&service=pay.weixin.native.intl&sign_type=MD5&time_expire=20180527202310&time_start=20180526202310&total_fee=10&version=2.0&key=c43a467098af250171cd787e56d03978”;

Sign in MD5：

Final Signature=MD5(stringSignTemp).toUpperCase()="2444D06685977A585F4C98D7C796BD92"