



Merchant API Documentation

Alipay APP Payment API

Document version: 1.5.2

API version: 1.5.2

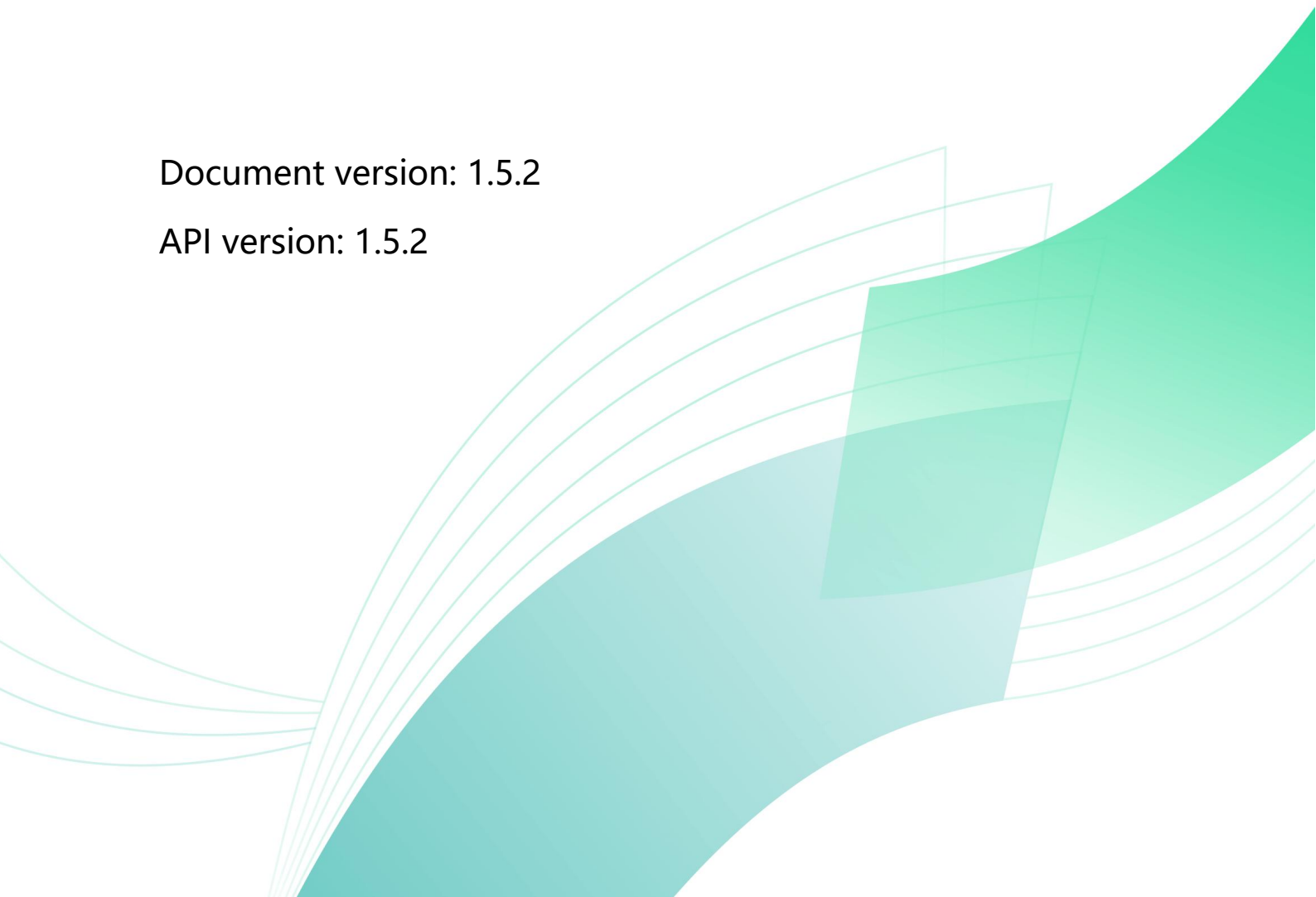


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Document Changes		
Date	Version	Description
2018-02-24	1.0	First draft
2022-05-24	1.4.3	Add Error Code
2018-06-01	1.1	Request URL is changed to https://gateway.wepayez.com/pay/gateway
2019-06-13	1.2	Update SHA256 & RSA signature
2022-06-10	1.4.4	Revised typo 'orderStr' to 'pay_info'
2022-07-06	1.5	Update description of fields mch_id, device_info, time_start, time_expire, pay_info, trade_state, etc.
2022-07-06	1.5	Add SDK download address
2022-07-06	1.5	Add the precautions for using the query interface

2022-08-16	1.5.1	Added swiftpass gateway request timeout description
2022-08-16	1.5.1	Add parameter "sign_agentno"
2022-08-16	1.5.1	Modify the description of the parameter "Body"
2023-02-16	1.5.2	Add sign_type with MD5 update diagram flow

1 Introduction

1.1 Document Abstract

APP payment refers to the payment method by which the merchant APP uses the SDK of the third party to connect with the third party and invokes payment to the third party through the order parameters generated by the merchant. After payment is done, profile will jump back to the merchant's APP.

1.2 Audience

This document is provided to technical and business staff of merchants for reference.

2 Program Overview

2.1 Industry Background

Merchant APP calls Alipay's SDK to invoke Alipay APP, merchant APP will jump to Alipay. Alipay will jump back to merchant APP after completion of transaction, and finally it shows the result of payment in merchant's APP.

2.2 Business realization process

3 Business of QR code pay

Usage scenario:

Step (1): As shown in Figure 1, buyers buy goods or services in mobile applications.



Figure 1

Step (2): As shown in Figure 2, login Alipay APP to complete payment

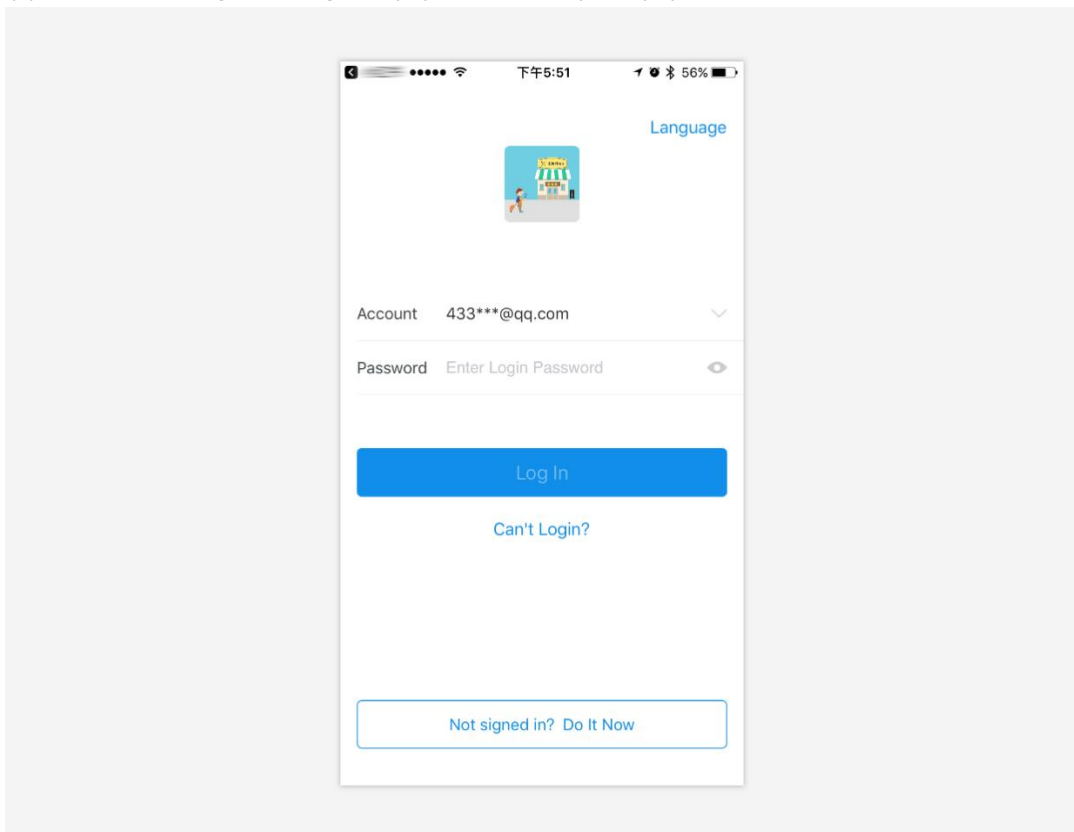


Figure 2

Step (3): As shown in Figure 3, enter the Alipay payment profile to finish payment

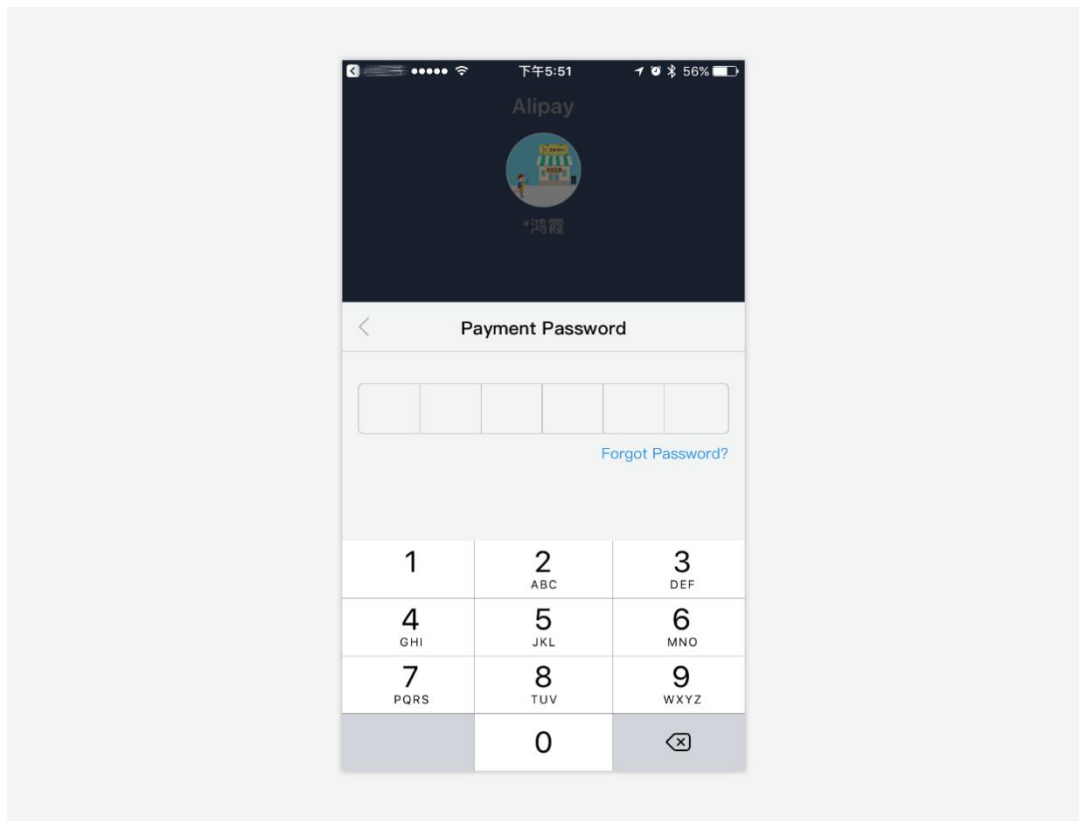


Figure 3

Step (4): As shown in Figure 4, payment is successfully done.

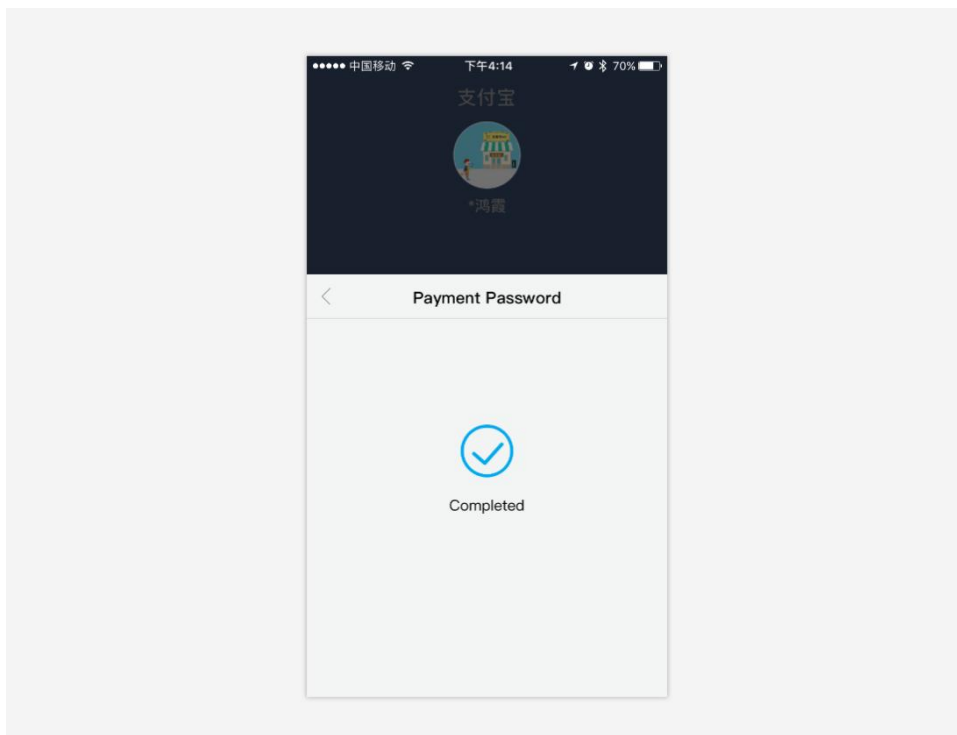


Figure 4

Step (5): As shown in Figure 5, profile will jump back to merchant to display payment result.

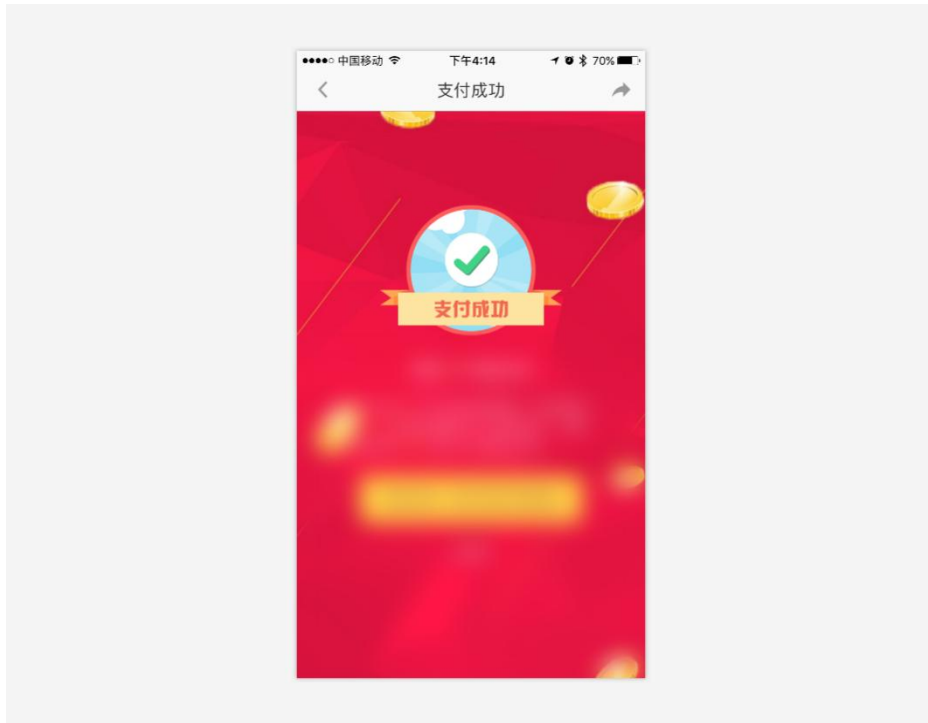
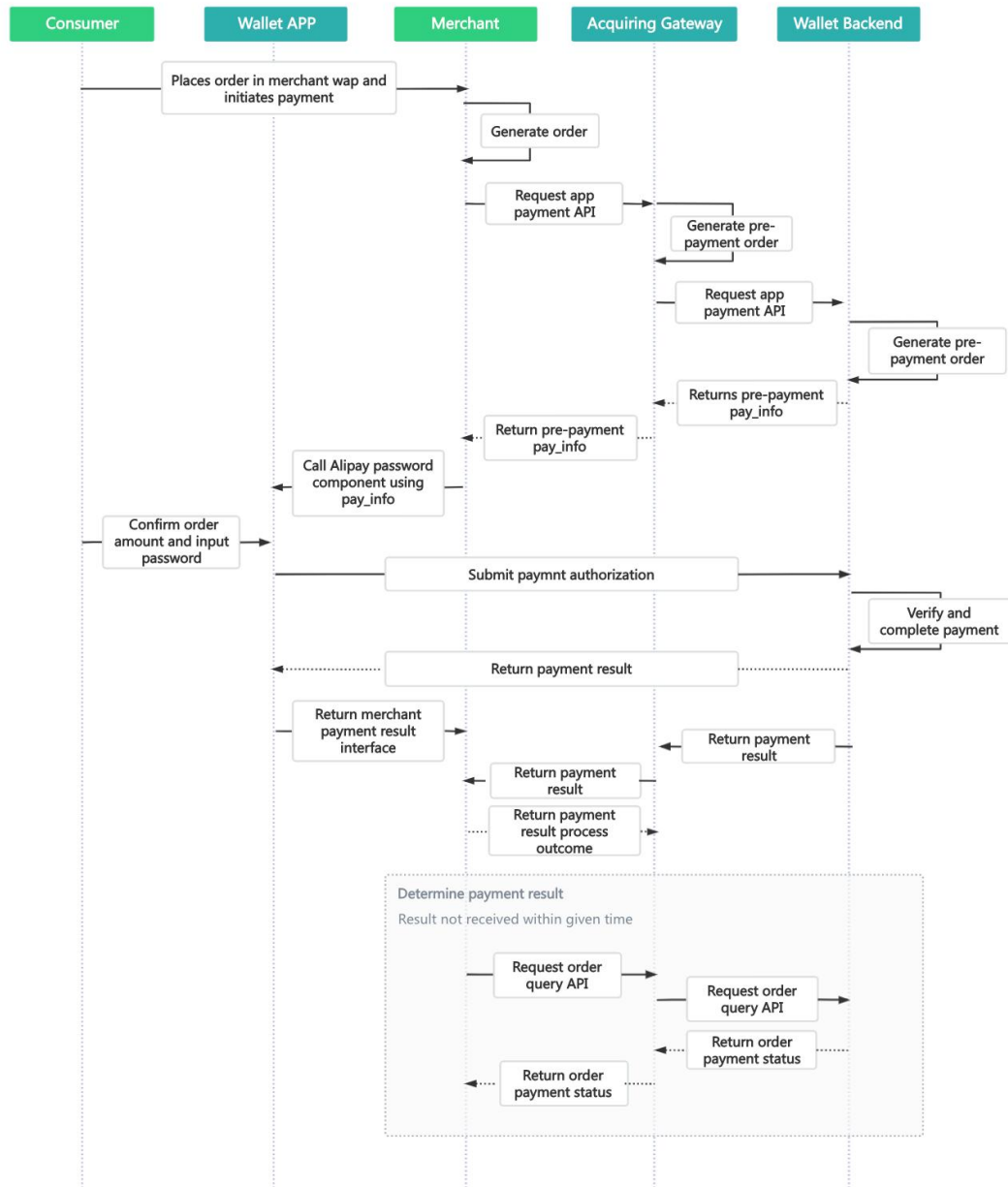


Figure 5

Sequential system interaction:



3 Data Format

3.1 Request data

Use HTTPS POST protocol. To ensure security, the data must be signed over transferring.

```
<xml>
```



```

<service>pay.alipay.app.intl</service>
<mch_id>7551000001</mch_id>
<out_trade_no>43569809</out_trade_no>
<device_info>Android3.0.1.2</device_info>
<body>Parking</body>
<total_fee>400</total_fee>
<mch_create_ip>172.30.70.20</mch_create_ip>
<payment_inst>ALIPAYHK</payment_inst>
<notify_url>https://xxxxx.com/xxxxxHongKong</notify_url>
<nonce_str>P50URp2G6dzzYBduIkzsSZ3eGhuxeffv</nonce_str>
<sign_type>MD5</sign_type>
<sign>4123eacf38206031a4db79e341432c31</sign>
</xml>

```

3.2 XML data format

Use Standard XML protocol. First-level node only, while no nested nodes.

Protocol error return:

```

<xml>
<status>500</status>
<message><![CDATA[SYSERR]]></message>
</xml>

```

Successful response:

```

<xml>
  <mch_id>7551000001</mch_id>
  <charset><![CDATA[UTF-8]]></charset>
  <nonce_str><![CDATA[20230210180610]]></nonce_str>

  <pay_info><![CDATA[_input_charset="utf-8"&app_id="-"&body="Parkin
g"&currency="HKD"&forex_biz="FP"&it_b_pay="2h"&notify_url="https:
//xxxxx.com/pay/notify/pay.alipay.app.intl@xxxxxxxx02164209754"&ou
t_trade_no="xxxxx99202302102164209754"&partner="xxxx1742229795"&p
ayment_inst="ALIPAYHK"&payment_type="1"&product_code="NEW_WAP_OVE
RSEAS_SELLER"&secondary_merchant_id="xxx20002199"&secondary_merch
ant_industry="5999"&secondary_merchant_name="TRANSPORT
DEPARTMENT"&seller_id="xxxx742229795"&service="mobile.securitypay.
pay"&subject="Parking"&total_fee="4.0"&sign="pI24%2FopYWCuw0m8EmZ
tFLeTbuW6c%2BWjAulCjEx1q2vfoMzPnC98mj2EM2AgCPgwUKr3aYEA5GNrj%2Boc
WC5anrjbH1413V75yB0ABk6rIvIeKuz02F%2FhNsKqeFys3q13hI0xwGr6g8h8C88
uvxkoe24cH3j1hRVGokgaD2s1YE%2F110pyigK9PLCb7pQ2LfTi3Q8r08MDX4HkAv
ffa6Ph4G%2BmHYrrf2WEGWzJM5bTd6m8JLbmQ3LKd3bDDFRHBU01YsHDxFn0lgkRG
nJTUQ%2BBye2bNPL20f85XRwcUaUqxzMi7WV7qL51F1eoeRg9M30tFQEJXXo9kz6Ux
EjmxX0HmKSQ%3D%3D"&sign_type="RSA"]]></pay_info>

```

```

<result_code><![CDATA[0]]></result_code>
<service><![CDATA[pay.alipay.app.intl]]></service>
<sign><![CDATA[394403FE2A9C61862925A1D5FFBE1F86]]></sign>
<sign_type><![CDATA[MD5]]></sign_type>
<status><![CDATA[0]]></status>
<version><![CDATA[2.0]]></version>
</xml>

```

Normal error return:

```

<xml>
<status>0</status>
<message><![CDATA[OK]]></message>
<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[二維碼已過期，請刷新再試]]></err_code_des>
</xml>

```

The field named status return '0': successful. Other value means fail.

4 Digital Signature

To ensure the authenticity and integrity of transmissible data, we need to verify the signed data when receiving.

There are two steps during digital signature.

1. Follow the rules to contact the original string that needs to be signed;
2. Calculate the result of signature according to the specific algorithm and key.

Generally, the failed result will not be signed.

4.1 Original string of signature

The original string of signature will be assembled into character strings according to the following modes no matter whether it is request or response or not:

1. Besides the sign field, all parameter fields will be ranked in ascending order according to the ASCII of the field name and then connected in the format of QueryString (i.e. key1=value1&key2=value2...), and the null value will not be transferred and will not participate in the formation of string of signature.

2. In the original string of signature, both the field name and field value will adopt original values and will not conduct URL Encode method.

3. The response or notification information returned by platform might increase parameters due to upgrading, and this case should be allowed when the response signature is verified.

Example:

Calling the interface with following fields:

```
<xml>
<body><![CDATA[測試支付]]></body>
<mch_create_ip><![CDATA[127.0.0.1]]></mch_create_ip>
<mch_id><![CDATA[101520000465]]></mch_id>
<nonce_str><![CDATA[1409196838]]></nonce_str>
<notify_url><![CDATA[http://227.0.0.1:9001/javak/]]></notify_url>
<out_trade_no><![CDATA[141903606228]]></out_trade_no>
<service><![CDATA[pay.alipay.app.intl]]></service>
<sign><![CDATA[94B0F11B228BA9DDA2E20E3A9C8B3A2F]]></sign>
<total_fee><![CDATA[1]]></total_fee>
</xml>
```

The signature field sequence:

```
body=測試支付
&mch_create_ip=127.0.0.1&mch_id=101520000465&nonce_str=1409196838
&notify_url=http://227.0.0.1:9001/javak/&out_trade_no=141903606228&service=pay.alipay.app.intl&total_fee=1
```

4.2 Method of signature

SHA256 & RSA signature are supported

Signature is a kind of abstract generation algorithm, and if the content of communication keys of the merchant is added to the back of the original string of signature and then signature operation is made, then the abstract character string formed is the signature result. In order to facilitate the comparison, the signature result is uniformly converted to the uppercase letter.

Notes: the coded character sets appointed when converting the character string into the byte stream at signing should be in accordance with parameter charset.

SHA256 signature calculation formula:

$sign = \text{SHA256}(\text{"The signature field sequence strings"} \& \text{key} = \text{"signature key"}).$

toUpperCase

Example:

There are XML afferent parameters:

```

<xml>
<auth_code>135187250012923035</auth_code>
<body>test</body>
<charset>UTF-8</charset>
<mch_create_ip>127.0.0.1</mch_create_ip>
<mch_id>127530000052</mch_id>
<nonce_str>1542940680925</nonce_str>
<out_trade_no>1542940643087</out_trade_no>
<service>unified.trade.micropay</service>
<sign>10F2F6DC0D5E008B967CC3C86FC58179686B4EE42F4F68B4A7668501B60
30C29</sign>
<sign_type>SHA256</sign_type>
<total_fee>2</total_fee>
<version>2.0</version>
</xml>

```

Merchant signature key: 18e0a2ad5d5571af14b855fcf33091f4

i: the first step of which is to connect the original string(string1) that needs signature according to certain rules:

```

auth_code=135187250012923035&body=test&charset=UTF-8&mch_create_ip=127.0.0.1&mch_id=127530000052&nonce_str=1542940680925&out_trade_no=1542940643087&service=unified.trade.micropay&total_fee=1

```

ii: the second step of which is to choose SHA256 and keys to calculate the result of signature(sign):

```

sign
=SHA256(string1&key=18e0a2ad5d5571af14b855fcf33091f4).toUpperCase
=SHA256(auth_code=135187250012923035&body=test&charset=UTF-8&mch_create_ip=127.0.0.1&mch_id=127530000052&nonce_str=1542940680925&out_trade_no=1542940643087&service=unified.trade.micropay&total_fee=1&key=18e0a2ad5d5571af14b855fcf33091f4).toUpperCase()
="10F2F6DC0D5E008B967CC3C86FC58179686B4EE42F4F68B4A7668501B6030C29"

```

RSA signature calculation formula:

The **RSA algorithm** has always been the most widely used "asymmetric encryption algorithm". By adding the content of the RSA private key of the merchant communication after the original string is signed, the result string is the result of the RSA operation.

Note: The set of coded characters specified when converting a string to a byte stream at

signature should match the parameter charset. The RSA key pair is generated by the merchant. You need to upload the public key to the merchant portal and download the SwiftPass public key for the response.

Sign = RSA (request parameter string, merchant RSA private key)

Description: The name of the platform signature algorithm: RSA_1_256, corresponding to the standard signature algorithm name: SHA256WithRSA, the length of the RSA key is required to be 2048.

sign =RSA("The signature field sequence strings"&key="signature private key").

toUpperCase

Example:

There are XML afferent parameters:

```
<xml>
<out_trade_no><![CDATA[6057113230875088]]></out_trade_no>
<nonce_str><![CDATA[wNzpaD0sN17KI80yBQwINNHfmOIeNqap]]></nonce_str>
<time_expire><![CDATA[]]></time_expire>
<mch_create_ip><![CDATA[127.0.0.1]]></mch_create_ip>
<sign_type><![CDATA[RSA_1_256]]></sign_type>
<total_fee><![CDATA[1]]></total_fee>
<notify_url><![CDATA[http://www.baidu.cn/notify.aspx]]></notify_url>
<body><![CDATA[Test pay]]></body>
<version><![CDATA[1.0]]></version>
<mch_id><![CDATA[102532336411]]></mch_id>
<time_start><![CDATA[]]></time_start>
<attach><![CDATA[Additional information]]></attach>
<service><![CDATA[pay.alipay.native]]></service>
<sign><![CDATA[SE008JDir0uwOuBy8d48SmdfG37PyGvhtqu8pDTo0DpdNkgkLuegNsb6SaL/dEfzu035bwAVwiKSc9m9xBKohGJEMtzRm3tLNnpQ0BDpLlYNWQkr0JN3JAjy6wklicSmfbjXgEvWCcx17MUE59NfI10JRR3MgFg/ySYq2cT4U/o6WJisxtIbre0ZPM66WL815gAzosJW3Gwr+B8fkRyOckF4w64i0TM20xoSHGEa8w1utOFik5wvxyPHb/JcjhRyrBnb2LFZy5Rq3XzZLW6FaK1gunWnjK5+4NiNuHDgm7CKZPp8BphA/qnJtAMGfexEZ8J4z9ktyywdK8b8VWJ5ow==]]>
</sign>
</xml>
```

Merchant RSA Private key:

MIIIEvQIBADANBgkqhkiG9w0BAQEFAASCBCwggSjAgEAAoIBAQCfU8v4BUr81SKm/H0ah

bdQZjEpO8nMyk+xuYSatHwnU4//m47R+4G2YB4Z6PHsJi4+ScfJpQutFhKrFwTXZ6TDqL
 vaqZDDkJq5G271g+PmrzFp7f40/E9m0qjeL64RJra0rZql23dvPW4vVomMRgRcoPOn0YW
 Vp+M6T5PaFgE4M8dh41MZz57gVwOdd08F99Z92f3QgZtEjI+/EXvMenXxb/aRofNkt+Wd
 k2ELJ6MIP0d9UU5v3WgLuuNv5QnQYzj/RMr8GD+wrDYiNQJxsaTmE/OEJggsumhD4eYY5
 YlRy2EIN504cuYVVKU1wOSZgq9oJCynGR0aPuQWx58IHxEtAgMBAAECggEAHfEFd8qm2P
 TE2lTavec7F+TcgD84IUaz0dZnURtx6YIOoZ5+LH/zVG6juYlJU/Oo5RPAC+iMVS68u2J
 MCp7zm8Ft7B3JkrbuHLNHGuR6Q7PQuXN8PkDcOxqDmZ2kPJz14PzvBZRE0abdug+tMatG
 zpGAuJzrWcB/N0oVIvrXp9PnOqfo/Y5nxmpOFCImJppIS3AL1pftNtQZo9G15CPHDYtpU
 bXPTd2MjjW4OLxKuPRoHSWUgo6LW9XSwnXfcuK+lbzLL0Bh1WD9IV/+yCEUEblN87yxxf
 hpQFaAhXj5W+B3YsMOZuK93+XMOpYmw8EpUDMOBOnvwb0NSHUrV2RUAQKBgQDTojlnNS1
 e7+tjPzFtOhGPj1uCBPAEIEHAcnPgd80bEiujxMLCnGaAvmnTrMu4Xo0e5fAP4F7R6UD+
 IUsfr3CAAu7CadQ49TW+SovAvciy9AZuSVVIwynu6QdYgFyPKe1LZYAEq5k+mB1Vh5q0R
 oxMNA5pGYKq8+4MmmsJi7X7QKBgQDAunCOqIiH128bs/1VRihDpzuRW5Qr/SRbO2saVg
 5RSHnO/nGT2OuxSTTkc8yrx7qd9SmAxX15kR238DhMOQOnRBomldmVtAJuJgrdQyt0wXf
 eQVQqshqCUaE/xhEbpSCdbPSZbKZZdplV0y605vXIhxw+1qAvXLcxw46s3R92QQKBgQC1
 Q+ejywkVPDILHMwSSehwvThuFkCYWYUbbcvDowpOe5AMoZidTnJu7MNjg2rLHTsCx/kBz
 Or+7THNw14R7kTiEmg09cO+fu5rHXepGgtig+GJukaZPZ6/bMZJvGOLgOhHmomwG/jdwp
 gVtIGBCh6BW5JZcSImT+ykIOoYfvDRuQKBgCgWOhxnBGFfORoLxE3dhpS8LT05cbueIB
 VuZw6UC3+8PeK82AjIbLMUy04QHupoG6Dyu3BP/1r10jd3L94PBzLBLD7Gm4vJTqW0Dkn
 Yo5sMXS1JrnofcKjBv7nbHXZTx3EtJSxpVaOdpca/HpsCuCP3AH2e1yk9sZ3wu6lBYSBA
 oGACYM60j1CVRNSzXUNRgiwFwzS69qIleezPc7xQEganpVBI9SZcTNplkpDKmQikXJ4Yb
 5XWn12HCY/sFeBW6Su3ruNqxvg1XiUPbH6A6nxd5B3QX0mS9+wDm6ONysPLRdKbfFOmd
 P4CeyuGPdvDIMXP4dJdLhMUL4pcJLI0B7gBE=

i: the first step of which is to connect the original string(string1) that needs signature according to certain rules:

```
attach=Additional information&body=Test pay
&mch_create_ip=127.0.0.1&mch_id=102532336411&nonce_str=wNzpaD0sN1
7KI80yBQwINNhfM0IeNqapnotify_url=http://www.baidu.cn/notify.aspx&
out_trade_no=6057113230875088&service=pay.alipay.native&sign_type
=RSA_1_256&total_fee=1&version=1.0
```

ii: the second step of which is to choose RSA and keys to calculate the result of signature(sign):

```
sign=RSA(string1, Merchant RSA Private key)==RSA(attach=Additional
information&body=Test
pay&mch_create_ip=127.0.0.1&mch_id=102532336411&nonce_str=wNzpaD0
sN17KI80yBQwINNhfM0IeNqapnotify_url=http://www.baidu.cn/notify.as
px&out_trade_no=6057113230875088&service=pay.alipay.native&sign_t
ype=RSA_1_256&total_fee=1&version=1.0,MIIEvQIBADANBgkqhkiG9w0BAQE
FAASCBAcwggSjAgEAAoIBAQCfU8v4BUr81SKm/H0ahbdQZjEpO8nMyk+xuYSatHwn
U4//m47R+4G2YB4Z6PHsJi4+ScfJpQutFhKrFwTXZ6TDqLvaqZDDkJq5G271g+Pmr
zFp7f40/E9m0qjeL64RJra0rZql23dvPW4vVomMRgRcoPOn0YwVp+M6T5PaFgE4M8
dh41MZz57gVwOdd08F99Z92f3QgZtEjI+/EXvMenXxb/aRofNkt+Wdk2ELJ6MIP0d
9UU5v3WgLuuNv5QnQYzj/RMr8GD+wrDYiNQJxsaTmE/OEJggsumhD4eYY5YlRy2EI
N504cuYVVKU1wOSZgq9oJCynGR0aPuQWx58IHxEtAgMBAAECggEAHfEFd8qm2PTE2
```

```

1TAvec7F+TcgD84IUaz0dZnURtx6YIOoZ5+LH/zVG6juYlJU/Oo5RPac+iMVS68u2
JMCp7zm8Ft7B3JkrbuHLNHGuR6Q7PQuXN8PkDcOxqDmZ2kPJz14PZvBZRE0abdug+
tMatGzpGAuJzrWcB/N0oVIvrXp9PnOqfo/Y5nxmpOFCImJppIS3AL1pftNtQZo9G1
5CPHDYtpUbXPtD2MjjW4OLxKuPRoHSwUgo6LW9XSwNXfcuK+lbzLL0BhlWD9IV/+y
CEUEblN87yxxfhpQFaAhXj5W+B3YsMOZuK93+XMOpYmw8EpUDMOBOnvwb0NSHUrV2
RUAQKBgQDTojlnNS1e7+tjPzFtOhGPj1uCBPAEIEhAcnPgd80bEiujxMLCnGaAvmn
TrMu4Xo0e5fAP4F7R6UD+IUufr3CAAu7CadQ49TW+SovAvciy9AZuSVVIWynU6QdY
gFyPKelLZYAEq5k+mB1Vh5q0RoxMNAA5pGYKg8+4MmmsJi7X7QKBgQDAunCOqiH1
28bs/1VRIhDpzuRW5QR/SRbO2saVg5RSHn0/nGT2OuxSTTkc8yrx7qd9SmAxL15kR
238DhMOQOnRBomldmVtAJuJgrdQyt0wXfeQVQqshqCUaE/xhEbpSCdbPSzbKZzdp1
V0y605vXIhxw+1qAvXLcxw46s3R92QQKBgQC1Q+ejywkVPDILHMwSsehvwThufkCY
WYUbbcVDowpOe5AMozidTnju7MNjg2rLHTsCx/kBzOr+7THNw14R7kTiEmg09cO+f
u5rHXepGgtig+GJukaZPZ6/bMZJvGOLgOhHmowG/jdwpGvtIGBCh6BW5JZcSImT+
ykIOoYfvDRuQKBgCgwoHxnBGFfORoLxE3dhpSk8LT05cbueIBVuZw6UC3+8PeK82A
jIbLMUy04QHupoG6Dyu3BP/1r10jd3L94PBzLbLD7Gm4vJTqW0DknYo5sMXS1Jrno
fckjBv7nbHXZTx3EtJSxpVaOdpcA/HpsCuCP3AH2e1yk9sZ3wu6lBYSBAoGACYM60
j1CVRNSZxUNRgiwFwzS69qIleezPc7xQEganpVBI9SzcTNp1kpDKmQikXJ4Yb5XWn
12HCY/sFeBW6Su3ruNqxvlg1XiUPbH6A6nxd5B3QX0mS9+wDm6ONysPLRdKbFfO
0mdP4CeyuGPdvDIMXP4dJdLhMUL4pcJLI0B7gBE=" ) =
SE008JDir0uwOuBy8d48SmdfG37PyGvhtqu8pDTo0DpdNkgkLuegNsb6SaL/dEfzu
O35bwAVwiKSc9m9xBKohGJEMtzRm3tLNNpQ0BDpLlYNWQkr0JN3JAjy6wk1icSmfb
jXgEvWCcx17MUe59NfI10JRR3MgFg/ySYq2cT4U/o6WJisxtIbre0ZPM66WL8

```

5 Mechanism To Supplement Order

Notes: in respect of the backstage notification interactive mode, if the response of the merchant received by platform is not **pure character string “success”** or if the response is given **after 5 seconds**, then the notification will be deemed as unsuccessful, and platform will adopt certain strategies (**the interval of notification: 0/15/15/30/180/1800/1800/1800/1800/3600 Unit: seconds**) to re-initiate notification **intermittently** to improve the success rate of the notification, but platform will not guarantee the final success of notification. Because there is the case where the backstage notification will be resent, the same notification might be sent to the merchant system many times. The merchant system must be able to process the repeated notification in a right way. The method recommended by platform is to first examine the status of the corresponding business data upon receiving the notification to judge whether the notification has been disposed, and in case it hasn't been dispose, it will be disposed otherwise, and if it has been disposed, **the pure character string “success”** will be returned directly. Before status examination and disposal of business data are conducted, data lock should be adopted for concurrency control to avoid data chaos caused by **repeated data interposition** in the function.

6APP Pre-Pay Interface

6.1APP Pre-Order Interface

6.1.1Business function

Merchant APP calls Alipay's SDK to invoke Alipay APP, merchant APP will jump to Alipay. Alipay will jump back to merchant APP after completion of transaction, and finally show the result of payment on merchant's APP.

6.1.2Interactive mode

Request: Background request interaction mode

Return& Notification: Background request interaction mode + Background notifies interaction mode

6.1.3Request Parameters

Request URL: <https://gateway.wepayez.com/pay/gateway>

POST request with content of XML

Field Name	Required	Type	Description
Normal Parameters			
service	Yes	String(32)	Interface type. Value : pay.alipay.app.intl
version	No	String(8)	Version number. default value : 2.0
charset	No	String(8)	Value : UTF-8
sign_type	No	String(16)	MD5: MD5 SHA256: SHA256 RSA: RSA_1_256 Default value: MD5
mch_id	Yes	String(32)	Merchant ID, Specifies an unique id assigned by platform. Only Store ID or Ordinary Merchant ID is valid.
groupno	No	String (32)	Master merchant ID

out_trade_no	Yes	String(32)	The unique trade reference (merchant order id of 5-32 bits) in merchant's system. Letter, number and underline are allowed. Case-sensitive
device_info	Yes	String(32)	Specifies a Terminal device id. You can query based on this field on the swiftpass merchant platform
body	Yes	String(128)	Description of merchants' goods.Can upload 128 English, 42 Chinese
attach	No	String(127)	Merchant additional information.
total_fee	Yes	Int	Integral number is allowed only. The unit of the fee is the minimal unit of the local currency.
mch_create_ip	Yes	String(16)	Specifies the machine IP that calls the API.
payment_inst	No	String(10)	Judge the type of payment wallet If the price currency is not HKD, this field is unnecessary If the price currency is HKD, please fill with ALIPAYHK/ALIPAYCN ALIPAYHK: HK wallet ALIPAYCN: cross-border wallet
notify_url	Yes	String(255)	Specifies the callback address for receiving platform payment notifications. Should be absolute path and ensure platform accessible. i.e. http://wap.tenpay.com/tenpay.asp
callback_url	No	String(255)	Only HK wallet support this field. Transaction payment is completed and returned to the page specified by the merchant. The absolute path must be given within 255 characters to ensure that the platform can access the address via the Internet.
time_start	No	String(14)	Order created date. Format: yyyyMMddHHmmss. i.e.20091225091010. GMT+8 Beijing Time. Alipay can set the time range from 1 minute to 15 days, if not uploading, the default is 2 hours
time_expire	No	String(14)	Order timeout date. Format: yyyyMMddHHmmss. i.e.20091225091010. GMT+8 Beijing Time. Alipay can set the time range from 1 minute to 15 days, if not uploading, the default is 2 hours
op_user_id	No	String(32)	Specifies the Operator ID. This field shows mch_id by default.
goods_tag	No	String(32)	Specifies the label of goods, which is a parameter in the coupon feature for businesses.

nonce_str	Yes	String(32)	Included in platform payment API protocols to ensure unpredictability for signatures. 32 characters or fewer.
sign	Yes	String(344)	Please refer to section 4 'Digital Signature'.
sign_agentno	No	String(32)	When the merchant is represented by the channel, the agency channel number is sent, and the corresponding sign needs to be signed with the channel's sign_key

Demo

```

<xml>
<body><![CDATA[changyoyo]]></body>
<charset><![CDATA[UTF-8]]></charset>
<device_info><![CDATA[changyoyo]]></device_info>
<mch_create_ip><![CDATA[58.33.106.38]]></mch_create_ip>
<mch_id><![CDATA[181520234234]]></mch_id>
<nonce_str><![CDATA[HFfP43tL2i]]></nonce_str>
<notify_url><![CDATA[http://58.33.106.38:8080/api/ali/resultNotify]]></notify_url>
<out_trade_no><![CDATA[2022092611300000000]]></out_trade_no>
<sign_agentno><![CDATA[1231231]]></sign_agentno>
<payment_inst><![CDATA[AlipayHK]]></payment_inst>
<service><![CDATA[pay.alipay.app.intl]]></service>
<sign><![CDATA[B0ECE637F82C135BD39C12E8F51443CEE08FF4A8C8FC2764D90D8770805216D1]]></sign>
<sign_type><![CDATA[SHA256]]></sign_type>
<time_expire><![CDATA[20220926114000]]></time_expire>
<time_start><![CDATA[20220926113000]]></time_start>
<total_fee><![CDATA[1]]></total_fee>
<version><![CDATA[2.0]]></version>
</xml>

```

6.1.4 Response result

Data return in real time with XML format

Field Name	Required	Type	Description
version	Yes	String(8)	Version number. default value : 2.0
charset	Yes	String(8)	Value : UTF-8
sign_type	Yes	String(16)	MD5: MD5 SHA256: SHA256 RSA: RSA_1_256 Default value: MD5
status	Yes	String(16)	"0": success. Others value: fail.

			Specifies communicating label (not transaction label). The status of a transaction is determined by the value of result_code.
message	No	String(128)	Return message. Only return when the signature verification invalid.
The following fields will returned when status is "0"			
result_code	Yes	String(16)	"0": success. Others value : fail.
sign_agentno	No	String(32)	Channel ID, which is the Agent ID. If the Agent mode is activated on portal, this field is required. Once this field is filled, the signature for the request had to be made with the unified key of the agent, instead of the original key of the store id.
groupno	No	String (32)	Master merchant ID
nonce_str	Yes	String(32)	Included in platform payment API protocols to ensure unpredictability for signatures. 32 characters or fewer.
err_code	No	String(32)	Reference error code
err_msg	No	String (128)	Error information description
sign	Yes	String(344)	Please refer to section 4 'Digital Signature'.
The following fields will returned when status and result_code both are "0"			
pay_info	Yes	String(64)	Order information needed to invoke Alipay APP payment

pay_info demo:

```
<pay_info><![CDATA[_input_charset="utf-8"&app_id="-"&body="Parking"&currency="HKD"&f
orex_biz="FP"&it_b_
pay="2h"&notify_url="https://notify.wepayez.com/pay/notify/pay.alipay.app.intl@18152000219920
2207062110113417"
&out_trade_no="18152000TEST2207062110113417"&partner="2088331742229795"&payment_
inst="ALIPAYHK"&p
ayment_type="1"&product_code="NEW_WAP_OVERSEAS_SELLER"&secondary_merchant_id="
182222222199"&se
condary_merchant_industry="5999"&secondary_merchant_name="TRANSPORT
DEPARTMENT"&seller_id="2088331742229795"&service="mobile.securitypay.pay"&subject="Pa
```

rking"&total_fee="4.
 0"&sign="jU9YQgyUTHdEdST1LYMNwmHjyOg%2BD%2FkOUk9X9CzvHMK1qJAUkxz2cgl7yVc
 d9Jvjvjobst7gOjbuXEe
 IMJLOxNtwU7IZF8fncXjtUbj8DQY0uDepX6x0Nxc2pqaYWOSfLeznmcj28Ds8Ko%2BbKw0fUW4Gb
 kKINmH7ahA0pD2
 KmezBmZeu0FUpHpGRRRN4bYDaaG8fiCP%2FEzwlr5h4UElt16xo2mC9Zmjc1Uhbjczh4AS9308
 cq3bRIRDD9xgdT%
 2Fnb15acGljwmcc3CzUZx1F%2BxRlr1ubq7FZtHRI3I41lz7zCzyTG1wo9UJW%2FIHN90H5r5x62A
 tnN2GNlnrUnxlqA %3D%3D"&sign_type="RSA"]]></pay_info>

Alipay SDK Download url

https://global.alipay.com/docs/ac/app_hk/intro

6.2 APP Notification interface

6.2.1 Notification request parameters

The notification URL is the parameter notify_url submitted in section 6.1. And after the payment is completed, platform will send related payment and user information to the URL. And the merchant needs to receive and dispose such information.

When interaction of the backstage notification is being made, if the response received by platform from the merchant is not pure character string "success" or if the response is given after 5 seconds, then it will be deemed as unsuccessful by platform, and platform will adopt certain strategies (**the interval of notification: 0/15/15/30/180/1800/1800/1800/1800/3600 Unit: seconds**) to intermittently re-initiate notification to do its best to improve the rate of success of notification, but the final success of notification will not be guaranteed.

Because there is the case where the backstage notification will be resent, the same notification might be sent to the merchant system many times. **The merchant system must be able to process the repeated notification in a right way.**

The method recommended by platform is to first examine the status of the corresponding business data upon receiving the notification to judge whether the notification has been disposed, and in case it hasn't been dispose, it will be disposed otherwise, and if it has been disposed, the pure character string success will be returned directly. Before status examination and disposal of business data are conducted, data lock should be adopted for concurrency control to avoid data chaos caused by repeated data interposition in the function.

Notice: After the backstage of the merchant has received the parameters of notification. It's required to verify out_trade_no and total_fee in notification received according to the order number and amount of order of their own business system. And the status of order in the database will only be allowed to update after the verification is consistent.

Suggestion: After creating an order and initiating payment, if the payment success notification request is not received within 5 minutes, it is recommended to initiate an order query interface, which is queried every 5 seconds, for a total of 12 queries.

The backstage notification will return by POST mode through notify_url which sent in payment request.

(Notify in XML format)

Field Name	Required	Type	Description
version	Yes	String(8)	Version number. default value : 2.0
charset	Yes	String(8)	Value : UTF-8
sign_type	Yes	String(16)	MD5: MD5 SHA256: SHA256 RSA: RSA_1_256 Default value: MD5
status	Yes	String(16)	"0": success. Others value: fail. Specifies communicating label (not transaction label). The status of a transaction is determined by the value of result_code.
message	No	String(128)	Return message. Only return when the signature verification invalid.
The following fields will returned when status is "0"			
result_code	Yes	String(16)	"0": success. Others value : fail.
channel_id	No	String(32)	Channel ID, which is the Agent ID. If the Agent mode is activated on

			portal, this field is required. Once this field is filled, the signature for the request had to be made with the unified key of the agent, instead of the original key of the store id.
groupno	No	String (32)	Master merchant ID
mch_id	Yes	String(32)	Merchant ID, Specifies an unique id assigned by platform. Only Store ID or Ordinary Merchant ID is valid.
device_info	No	String(32)	Specifies a Terminal device id. You can query based on this field on the SwiftPass merchant platform
nonce_str	Yes	String(32)	Included in platform payment API protocols to ensure unpredictability for signatures. 32 characters or fewer.
err_code	No	String(32)	Reference error code
err_msg	No	String (128)	Error information description
sign	Yes	String(344)	Please refer to section 4 'Digital Signature'.
sign_agentno	No	String(32)	When the merchant is represented by the channel, the agency channel number is sent, and the corresponding sign needs to be signed with the channel's sign_key
The following fields will returned when status and result_code both are "0"			
openid	Yes	String(128)	It is the only user identification under the current appid.
trade_type	Yes	String(32)	Value : pay.alipay.app.intl
pay_result	Yes	Int	Payment result. "0": success. Others fail.
pay_info	No	String(64)	Payment result information. Payment successful return null.
transaction_id	Yes	String(32)	platform order number
out_transaction_id	Yes	String(32)	order number provided by the third-party (Alipay)
out_trade_no	Yes	String(32)	Specifies an order number created by a merchant's system, which is consistent with request.
total_fee	Yes	Int	Specifies the total amount. Integral number is allowed only. The unit of the fee is the minimal unit of the local currency.
fee_type	No	String(8)	Complies with ISO 4217 standards.
attach	No	String(127)	Specifies merchant's data package, which is returned as it is.
bank_type	Yes	String(16)	String states bank_type
time_end	Yes	String(14)	Specifies the transaction payment time in the format of yyyyMMddHHmmss, such as 20091225091010 for Dec 25, 2009

			09:10:10.GMT+8 Beijing Time.
--	--	--	------------------------------

6.2.2 Response of notification

Platform server will send notification, then post send XML data flow, the notify_url of the merchant will receive the result of notification, with the method of reception being as written in demo (for example, callback method in php, notify.aspx file in c#, TestPayResultServlet method in java), and after the merchant conducts business disposal, the feedback of result of disposal needs to be given in the form of pure character string, with its content being as follows:

Returned results	Description
success	The disposal is successful, and after SwiftPass system receives this result, no ongoing notification will be made.
fail or other character	The disposal fails, and if SwiftPass receives this result or doesn't receive any result, then the system will resend the notification through the mechanism of supplementing order (for detail please see section 5).

6.3 Retrieve transaction result interface

6.3.1 Business function

Retrieve transaction result information with platform order number or merchant order number.

6.3.2 Interactive mode

Background interaction mode.

6.3.3 Request parameters

Request URL: <https://gateway.wepayez.com/pay/gateway>

POST request with content of XML

Field Name	Required	Type	Description
service	Yes	String(32)	Value : unified.trade.query

version	No	String(8)	Version number. default value : 2. 0
charset	No	String(8)	Value : UTF-8
sign_type	No	String(16)	MD5: MD5 SHA256: SHA256 RSA: RSA_1_256 Default value: MD5
mch_id	Yes	String(32)	Merchant ID, Specifies an unique id assigned by platform.,Only Store ID or Ordinary Merchant ID is valid.
groupno	No	String (32)	Master merchant ID
out_trade_no	No	String(32)	The unique trade reference of merchant system. out_trade_no and transaction_id at least one required. transaction_id priority when both be filled.
transaction_id	No	String(32)	The unique trade reference of platform system. out_trade_no and transaction_id at least one required. transaction_id priority when both be filled.
nonce_str	Yes	String(32)	Included in platform payment API protocols to ensure unpredictability for signatures. 32 characters or fewer.
sign	Yes	String(344)	Please refer to section 4 'Digital Signature'.
sign_agentno	No	String(32)	When the merchant is represented by the channel, the agency channel number is sent, and the corresponding sign needs to be signed with the channel's sign_key

6.3.4Response parameters

Data return in real time with XML format

Field Name	Required	Type	Description
version	Yes	String(8)	Version number. default value : 2. 0
charset	Yes	String(8)	Value : UTF-8
sign_type	Yes	String(16)	MD5: MD5 SHA256: SHA256 RSA: RSA_1_256 Default value: MD5

status	Yes	String(16)	"0": success. Others value : fail. Specifies communicating label (not transaction label). The status of a transaction is determined by the value of trade_state .
message	No	String(128)	Return message. Only return when the signature verification invalid.
The following fields will returned when status is "0"			
result_code	Yes	String(16)	"0": success. Others value : fail.
groupno	No	String (32)	Master merchant ID
mch_id	Yes	String(32)	Merchant ID, Specifies an unique id assigned by platform. Only Store ID or Ordinary Merchant ID is valid.
device_info	No	String(32)	Specifies a Terminal device id. You can query based on this field on the swiftpass merchant platform
nonce_str	Yes	String(32)	Included in platform payment API protocols to ensure unpredictability for signatures. 32 characters or fewer.
err_code	No	String(32)	Reference error code
err_msg	No	String (128)	Error information description
sign	Yes	String(344)	Please refer to section 4 'Digital Signature'.
sign_agentno	No	String(32)	When the merchant is represented by the channel, the agency channel number is sent, and the corresponding sign needs to be signed with the channel's sign_key
The following fields will returned when status and result_code both are "0"			
trade_state	Yes	String(32)	SUCCESS:Payment successful REFUND:Order to be refunded NOTPAY:Order not paid REVERSED- Order reversed PAYERROR:Payment failed (payment status failed to be returned by bank or other reasons)
The following fields will returned when trade_state is "SUCCESS"			
trade_type	Yes	String(32)	Value : pay.alipay.app.intl
openid	No	String(128)	Account of Alipay users
transaction_id	Yes	String(32)	The unique trade reference of platform system.

out_transaction_id	Yes	String(32)	order number provided by the third-party (Alipay)
out_trade_no	Yes	String(32)	The unique trade reference of merchant system.
total_fee	Yes	Int	The total amount of the transaction. The unit of the fee is the minimal unit of the local currency.
coupon_fee	No	Int	Coupon amount. $coupon_fee \leq total_fee$. $total_fee - coupon_fee = cash\ pay\ amount$
fee_type	No	String(8)	Complies with ISO 4217 standards.
attach	No	String(127)	Specifies merchant's data package, which is returned as it is.
bank_type	No	String(16)	String states bank_type
bank_billno	No	String(32)	Bank order number. Null for Alipay payment.
time_end	Yes	String(14)	Specifies the transaction payment time in the format of yyyyMMddHHmmss, such as 20091225091010 for Dec 25, 2009 09:10:10. GMT+8 Beijing.

6.4 Refund Interface

6.4.1 Business function

If the merchant initiate refund in respect of an order that has been successfully paid, then the result of the operation will be synchronously returned in the same dialogue.

I. Refund mode

Currently, the fund of the refund will follow the same route back to customers' account.

Notes: Generally the amount will be refunded to the bank account within 1 to 3 working days after the refund is initiated.

The different parts of refund of a same order need to be set with the same order number and the different out_refund_no. After a refund that fails is resubmitted, the original out_refund_no will be adopted. The total sum of refund couldn't surpass the amount actually paid by users (the amount of the cash coupon couldn't be refunded).

II. Restrictions of refund

When operating the refund, the merchant should pay attention to the restrictions of refund to avoid the request of refund that will not be successful, and the main restrictions of refund are as follows:

In platform system, only if the accumulative amount of refund doesn't surpass the total sum

of payment for the transacted order, then the same order could be refunded for several times, and the refund application form number (there are such parameters in the refund interface) rather than the transaction order number shall be solely used to confirm one time of refund. The refund application form number is to be generated by the merchant, and so the merchant has to guarantee the uniqueness of the refund application form. In the process of refund, the merchant needs to pay special attention that only when the refund is confirmed to fail, then could another refund be re-initiated.

Currently most banks support full refund and partial refund, but there are a few banks that don't support full refund or partial refund or don't support refund. In such case the merchant could negotiate with the buyer to refund to the Alipay balance account.

Currently only refund interface without key is provided, and in case the merchant needs refund interface with key, please contact the business person.

6.4.2 Interactive mode

Background interaction mode

6.4.3 Request parameters

Request URL: <https://gateway.wepayez.com/pay/gateway>

POST request with content of XML

Field Name	Required	Type	Description
service	Yes	String(32)	Value : unified.trade.refund
version	No	String(8)	Version number. default value : 2.0
charset	No	String(8)	Value : UTF-8
sign_type	No	String(16)	MD5: MD5 SHA256: SHA256 RSA: RSA_1_256 Default value: MD5
mch_id	Yes	String(32)	Merchant ID, Specifies an unique id assigned by platform. Only Store ID or Ordinary Merchant ID is valid.
groupno	No	String (32)	Master merchant ID
out_trade_no	No	String(32)	The unique trade reference of merchant system. out_trade_no and transaction_id at least one required. transaction_id priority when both be filled.
transaction_id	No	String(32)	The unique trade reference of platform system. out_trade_no and transaction_id at least one required. transaction_id priority when both be filled.
out_refund_no	Yes	String(32)	Specifies the internal refund number, which is unique in the system.

			A single transaction can be processed as multiple partial refunds, with the total sum of the partial refunds being equal to the original one. If the refund is not successful. The recall function should be used with same refund number to avoid duplication of refunds.
total_fee	Yes	Int	The total amount of the transaction. The unit of the fee is the minimal unit of the local currency.
refund_fee	Yes	Int	Refund amount. The unit of the fee is the minimal unit of the local currency. Partial refund can be supported.. Partial refund can be supported.
op_user_id	Yes	String(32)	Specifies the Operator ID. This field shows mch_id by default.
refund_channel	No	String(16)	Value : ORIGINAL. The money will refund back to where it came from.
nonce_str	Yes	String(32)	Included in platform payment API protocols to ensure unpredictability for signatures. 32 characters or fewer.
sign	Yes	String(344)	Please refer to section 4 'Digital Signature'.
sign_agentno	No	String(32)	When the merchant is represented by the channel, the agency channel number is sent, and the corresponding sign needs to be signed with the channel's sign_key

6. 4. 4 Response parameters

Data return in real time with XML format

Field Name	Required	Type	Description
version	Yes	String(8)	Version number. default value : 2. 0
charset	Yes	String(8)	Value : UTF-8
sign_type	Yes	String(16)	MD5: MD5 SHA256: SHA256 RSA: RSA_1_256 Default value: MD5
status	Yes	String(16)	"0": success. Others value: fail. Specifies communicating label (not transaction label). The status of a transaction is determined by the value of result_code.
message	No	String(128)	Return message. Only return when the signature verification invalid.
The following fields will returned when status is "0"			
result_code	Yes	String(16)	"0": success. Others value : fail.
mch_id	Yes	String(32)	Merchant ID, Specifies an unique id assigned by platform. Only Store ID or Ordinary Merchant ID is valid.

groupno	No	String (32)	Master merchant ID
device_info	No	String(32)	Specifies a Terminal device id. You can query based on this field on the SwiftPass merchant platform
nonce_str	Yes	String(32)	Included in platform payment API protocols to ensure unpredictability for signatures. 32 characters or fewer.
err_code	No	String(32)	Reference error code
err_msg	No	String (128)	Error information description
sign	Yes	String(344)	Please refer to section 4 'Digital Signature'.
sign_agentno	No	String(32)	When the merchant is represented by the channel, the agency channel number is sent, and the corresponding sign needs to be signed with the channel's sign_key
The following fields will returned when status and result_code both are "0"			
transaction_id	Yes	String(32)	The unique trade reference of platform system.
out_trade_no	Yes	String(32)	The unique trade reference of merchant system.
out_refund_no	Yes	String(32)	Specifies the internal refund number, which is unique in the merchant system.
refund_id	Yes	String(32)	Specifies the internal refund number, which is unique in the platform system.
refund_channel	Yes	String(16)	Value: ORIGINAL. The money will refund back to where it came from.
refund_fee	Yes	Int	Refund amount. The unit of the fee is the minimal unit of the local Currency. Partial refund can be supported.
coupon_refund_fee	No	Int	Coupon refund amount. coupon_refund_fee <= refund_fee. refund_fee - coupon_refund_fee = cash refund amount

7 Notes

1. The unit of any related amount is the minimal unit of the currency, and decimals are not allow.
2. notify_url means that platform server directly initiates request from back end to merchant's server, and when disposing, the merchant could not examine the user's cookie or session; the merchant's updating of DB and other goods delivery procedure needs to be made after

notify_url is completed to ensure that to supplement order after order fails will be successful.

3. notify_url means that it might have repeated notification and the merchant needs to do away with the repeated ones to avoid repeated goods delivery.
4. notify_url means the receive notification, and if the merchant disposes successfully or if the examined order has been disposed, then the successful disposal mark, the pure character string success needs to be returned, and the character string success is not case sensitive; if we don't receive the returned success, then our server will keep sending notification to you until three hours later; if it's assumed that all orders don't return success, then the load of notification of our server will be increase, and the worst case is that the notification normally sent to the merchants might delay; besides, we will urge you to perfect, and if you don't improve for a long time period, then the R&D or operation and maintenance technology staff will adopt control measures over the payment interface opened by your company. For the parameters sent in requesting interface in the document, if the one required to fill is given a yes, then it has to be sent (in case of lack, an error will be alarmed), and if the one required to fill is given a no, then it will be optional to be sent.
5. For the returned parameters, if the one required to fill is given a yes, then it has to be returned, and if the one required to fill is given a no, then it will be optional to be returned. Because of upgrading or configuration or other cases, the actually returned parameters might not be totally consistent with those in the document, and the actually received parameters shall prevail.
6. Other notes
 - (1) The problem of capital and small letter of parameters
Please pay attention to the problem of capital and small letter required in the document
 - (2) The problem of format of parameters
All introduced parameters are of the type of character string, and please pay attention to the specific requirements in different places of the document.
 - (3) The problem of time stamp
Please use Linux time stamp, and note that its format is character string.
 - (4) The problem of order number payment made by the same merchant

If the payment of order of the merchant fails, then it's required to generate a new order number to re-initiate payment, and the original order number needs to be invoked for closing to avoid repeated payment; After an order is placed in the system, if the payment of users is time out, the system will exit and no longer accept the payment to avoid ongoing payment of users, and please invoke the close order interface.

Notes: after an order is generated, to immediately invoke the close order interface will not be allowed, because the shortest invocation interval is 5 minutes.

7.Request swiftpass gateway If there is no clear result of synchronization within 10 seconds, it can be considered that the transaction request has timed out

8 Error Code

Alipay:

Please check https://global.alipay.com/docs/ac/gr/error_code for details.

Error code	Description
ACCESS_FORBIDDEN	You have no permission to use the product. Check your agreement with Alipay. <u>See ACCESS_FORBIDDEN for details.</u>
AGREEMENT_NOT_EXIST	The related agreement does not exist. <u>See AGREEMENT_NOT_EXIST for details.</u>
ALIN10023	An order is being paid by a second payer. <u>See ALIN10023 for details.</u>
ALIN10070	<u>The signature is incorrect. See ALIN10070 for details.</u>
ALIN10129	In APP payment, the PID does not match the environment. For example, the PID is from production environment but is tested in sandbox environment. <u>See ALIN10129 for details.</u>
ALIN38173	<u>The orderInfo string in the request is not parsed correctly. See ALIN38173 for details.</u>

ALIN42282	The same external transaction number, out_trade_no, is used to repeatedly initiate requests, and the request parameters are inconsistent. <u>See ALIN42282 for details.</u>
ALIN43877	The merchant called Alipay domestic payment solution interface, but the buyer is trying to make payment in a foreign country (outside of China). <u>See ALIN43877 for details.</u>
ALIN43911	Transaction risks are detected at the user side. <u>See ALIN43911 for details.</u>
BEYOND_PAY_RESTRICTION	The balance payment amount exceeds the limit. Change to other payment method such as cash or credit card. <u>See ALIN43911 for details.</u>
BUYER_BALANCE_NOT_ENOUGH	Insufficient balance for current operation. Top-up the balance or link a bank card. <u>See BUYER_BALANCE_NOT_ENOUGH for details.</u>
BUYER_BANKCARD_BALANCE_NOT_ENOUGH	Insufficient bank balance for current operation. Top-up the balance or link a bank card. <u>See BUYER_BANKCARD_BALANCE_NOT_ENOUGH for details.</u>
BUYER_ENABLE_STATUS_FORBID	The buyer account is disabled because of identity or security reasons. <u>See BUYER_ENABLE_STATUS_FORBID for details.</u>
BUYER_NOT_EXIST	The buyer_identity_code value is incorrect. <u>See BUYER_NOT_EXIST for details.</u>
BUYER_NOT_MAINLAND_CERT	The user is not an eligible customers of the Alipay payment products that you use. <u>See BUYER_NOT_MAINLAND_CERT for details.</u>
BUYER_PAYMENT_AMOUNT_DAY_LIMIT_ERROR	The total payment amount for the buyer exceeded user daily max-amount limit. Change to other payment method such as cash or credit card. <u>See BUYER_PAYMENT_AMOUNT_DAY_LIMIT_ERROR for details.</u>
BUYER_PAYMENT_AMOUNT_MONTH_LIMIT_ERROR	The total payment amount for the buyer exceeded user monthly max-amount limit. Change to other payment method such as cash or credit card. <u>See BUYER_PAYMENT_AMOUNT_MONTH_LIMIT_ERROR for details.</u>
CONTACT_NO_MANDATORY	contact_no is not passed in the request parameters. <u>See CONTACT_NO_MANDATORY for details.</u>

CONTEXT_INCONSISTENT	The transaction information is inconsistent by the same out_trade_no. Check the request data. See CONTEXT_INCONSISTENT for details.
CURRENCY_NOT_SAME	The refund currency is inconsistent. See CURRENCY_NOT_SAME for details.
CURRENCY_NOT_SUPPORT	The currency is not supported. Check the agreement with Alipay. See CURRENCY_NOT_SUPPORT for details.
DATA_NOT_EXIST	The secondary merchant is not successfully registered. See DATA_NOT_EXIST for details.
DISCORDANT_REPEAT_REQUEST	The same out_return_no is used to initiate multiple refund requests, and the request parameters are inconsistent. See DISCORDANT_REPEAT_REQUEST for details.
DUPLICATE_PAY_CURRENCY_NOT_EQUAL	More than one payment requests share a same out_trade_no, and the parameter currency is not the same. See DUPLICATE_PAY_CURRENCY_NOT_EQUAL for details.
DUPLICATE_REQUEST	The registration request for the same PM / PMS is submitted already and is currently under review. See DUPLICATE_REQUEST for details.
EXCHANGE_AMOUNT_OR_CURRENCY_ERROR	The exchange amount or currency is incorrect. Check the amount and the currency parameter. See EXCHANGE_AMOUNT_OR_CURRENCY_ERROR for details.
EXIST_FORBIDDEN_WORD	Prohibited words are included in the transaction request. See EXIST_FORBIDDEN_WORD for details.
HAS_NO_PRIVILEGE	The contract of the PID expires or is terminated. See HAS_NO_PRIVILEGE for details.
ILLEGAL_ACCESS_SWITCH_SYSTEM	You are not allowed to access the system of this type. Contact Alipay Technical Support if needed.
ILLEGAL_ARGUMENT	The parameter is incorrect. Check each request parameter according to the API specification. See ILLEGAL_ARGUMENT for details.
ILLEGAL_CLIENT_IP	The client IP address is illegal. Check the Client IP address. See ILLEGAL_CLIENT_IP for details.
ILLEGAL_EXTERFACE	The Alipay API you call is incorrect.

	See ILLEGAL_EXTERFACE for details.
ILLEGAL_PARTNER	The partner ID is incorrect. Ensure the value of partner parameter matches the partner value provided by Alipay. See ILLEGAL_PARTNER for details.
ILLEGAL_PARTNER_EXTERFACE	The PID used in the request did not sign the corresponding contract. See ILLEGAL_PARTNER_EXTERFACE for details.
ILLEGAL_SECURITY_PROFILE	The matching private key configuration is not found. For the solution, see ILLEGAL_SECURITY_PROFILE.
ILLEGAL_SIGN	Errors exist in the signature. See Digital signature for details.
ILLEGAL_SIGN_TYPE	Alipay's request only supports three signing methods: MD5, RSA, and RSA2. If other values are passed to sign_type, this error will be returned. Please check if sign_type is one of MD5, RSA, RSA2, and check if the value is passed incorrectly.
INVALID_PARAMETER	The parameter name is wrong, the parameter value does not meet the requirements, and required parameters are not filled, and so on. See INVALID_PARAMETER for details.
INVALID_RECEIVE_ACCOUNT	Error exists in the receipt account information. See INVALID_RECEIVE_ACCOUNT for details.
INVALID_ROUNDED_AMOUNT	The refund with this amount may violate the rule that the calculated amount of both CNY and foreign currency should be fully or not fully refunded at the same time. Take a transaction with 0.07 CNY (0.01 USD) as an example. A refund with 0.06 CNY would not be accepted because this comes to a situation where there is 0.01 CNY (0 USD) left for this transaction. See INVALID_ROUNDED_AMOUNT for details.
LBS_GEOGRAPHIC_INFORMATION_INVALID	The actual country of the address defined by store_address does not match the country defined by store_country, or the address defined by store_address cannot be found on Google Map. See LBS_GEOGRAPHIC_INFORMATION_INVALID ID for details.
MCC_TYPE_ILLEGAL	MCC (parameter secondary_merchant_industry) is invalid. See MCC_TYPE_ILLEGAL for details.

MOBILE_PAYMENT_SWITCH_OFF	The Payment Code feature is disabled in the customer's Alipay app. <u>See MOBILE_PAYMENT_SWITCH_OFF for details.</u>
MORE_THAN_ALLOW_REFUND_FOREX_FEE	The principle of Alipay's split-refund is to return the original way. If a transaction involves refunding the split, and the refund amount exceeds the actual receipt amount of the account, this error code will be returned. <u>See MORE_THAN_ALLOW_REFUND_FOREX_FEE for details.</u>
NOT_CERTIFIED_USER	Buyer qualifications do not match. <u>See NOT_CERTIFIED_USER for details.</u>
NOT_PRIVATE_ACCOUNT_USER	The transaction can only be paid with the buyer's personal account, not the business account. <u>See NOT_PRIVATE_ACCOUNT_USER for details.</u>
NOT_SUPPORT_PAYMENT_INST	The Alipay Wallet version is not supported. <u>See NOT_SUPPORT_PAYMENT_INST for details.</u>
PARAM_ILLEGAL	The parameter is illegal. Modify the parameter according to the API document. <u>For more information about this error code in certain interfaces, see PARAM_ILLEGAL.</u>
PAYER_ENABLE_STATUS_FORBID	The buyer's Alipay account is deactivated and the real-name verification information cannot be sent to the customs. <u>See PAYER_ENABLE_STATUS_FORBID for details.</u>
PAYMENT_FAIL	The transaction failed. <u>See PAYMENT_FAIL for details.</u>
PAYMENT_REQUEST_HAS_RISK	The merchant status is abnormal, or the buyer's payment has risks, such as offsite payment or large payment. <u>See PAYMENT_REQUEST_HAS_RISK for details.</u>
PRODUCT_AMOUNT_LIMIT_ERROR	The transaction amount exceeded the limit. <u>See PRODUCT_AMOUNT_LIMIT_ERROR for details.</u>
PULL_MOBILE_CASHIER_FAIL	Failed to call the mobile cashier. <u>See PULL_MOBILE_CASHIER_FAIL for details.</u>
PURCHASE_TRADE_NOT_EXIST	The order for the refund request does not exist (status is TRADE_NOT_EXIST) or has not been paid

	(status is WAIT_BUYER_PAY). <u>See PURCHASE_TRADE_NOT_EXIST for details.</u>
QRCODE_HAS_BEEN_EXIST	The QR code already exists. Try again or Contact Alipay Technical Support if needed. <u>See QRCODE_HAS_BEEN_EXIST for details.</u>
REASON_TRADE_REFUND_FEE_ERR	Invalid refund amount. <u>See REASON_TRADE_REFUND_FEE_ERR for details.</u>
REFUND_CHARGE_ERROR	The refund is initiated before Alipay receive the payment from the user. <u>See REFUND_CHARGE_ERROR for details.</u>
REFUND_REQUEST_HAS_RISK	The merchant status is abnormal and transactions are not refundable. <u>See REFUND_REQUEST_HAS_RISK for details.</u>
REFUNDMENT_VALID_DATE_EXCEED	The transaction exceeded the valid refund period. <u>See REFUNDMENT_VALID_DATE_EXCEED for details.</u>
REGISTRATION_NO_MANDATORY	registration_no is not passed in the request parameters. <u>See REGISTRATION_NO_MANDATORY for details.</u>
REPEATED_REFUNDMENT_REQUEST	Duplicated refund request. Please do not refund repeatedly. <u>See REPEATED_REFUNDMENT_REQUEST for details.</u>
REQUEST_AMOUNT_EXCEED	The value of refund_amount or the total refund amount is more than the transaction amount. <u>See REQUEST_AMOUNT_EXCEED for details.</u>
RESTRICTED_MERCHANT_INDUSTRY	The amount exceeded the merchant industry single order amount limit. <u>See RESTRICTED_MERCHANT_INDUSTRY for details.</u>
RETURN_AMOUNT_ERROR	The refund amount in CNY, which is the value of return_rmb_amount, is less than 0.01 when converted to the settlement amount in foreign currency. <u>See RETURN_AMOUNT_ERROR for details.</u>
RETURN_AMOUNT_EXCEED	The total refund amount exceeds the amount actually paid for the transaction. <u>See RETURN_AMOUNT_EXCEED for details.</u>
SECONDARY_MERCHANT_ID_BLANK	No secondary merchant information was passed in the payment request.

	See <u>SECONDARY_MERCHANT_ID_BLANK</u> for details.
SECONDARY_MERCHANT_ID_INVALID	The parameter secondary_merchant_id passed in the request is incorrect. See <u>SECONDARY_MERCHANT_ID_INVALID</u> for details.
SECONDARY_MERCHANT_STATUS_ERROR	The secondary merchant status is abnormal. See <u>SECONDARY_MERCHANT_STATUS_ERROR</u> for details.
SELLER_BALANCE_NOT_ENOUGH	When refunding, the seller's account balance was insufficient and the refund failed. See <u>SELLER_BALANCE_NOT_ENOUGH</u> for details.
SELLER_NOT_EXIST	The parameter seller_id in the request is not consistent with partner. Or seller_email does not match partner. See <u>SELLER_NOT_EXIST</u> for details.
SOUNDWAVE_PARSER_FAIL	The payment code (buyer_identity_code) is invalid. See <u>SOUNDWAVE_PARSER_FAIL</u> for details.
SYSTEM_ERROR	Alipay system failed to process the request because of temporary internal glitch. See <u>SYSTEM_ERROR</u> for details.
TARGET_SYSTEM_ERROR	For interface alipay.acquire.overseas.spot.pay, parameter extend_info is not in JSON format. Make sure the format of extend_info is JSON.
TOTAL_FEE_EXCEED	The transaction amount exceeds the limit. See <u>TOTAL_FEE_EXCEED</u> for details.
TRADE_BUYER_NOT_MATCH	The buyer does not match. See <u>TRADE_BUYER_NOT_MATCH</u> for details.
TRADE_CANCEL_TIME_OUT	The cancellation request is beyond the opening hours. See <u>TRADE_CANCEL_TIME_OUT</u> for details.
TRADE_HAS_CLOSE	Payment or refund is not allowed for orders with a status of TRADE_CLOSED. See <u>TRADE_HAS_CLOSE</u> for details.
TRADE_HAS_FINISHED	The transaction is successfully paid and the refund period has expired. No payment or cancel request is allowed. See <u>TRADE_HAS_FINISHED</u> for details.
TRADE_HAS_SUCCESS	Already successful transactions are not allowed to initiate a payment again. See <u>TRADE_HAS_SUCCESS</u> for details.

TRADE_NOT_EXIST	<p>The transaction does not exist.</p> <p><u>See TRADE_NOT_EXIST for details.</u></p>
TRADE_SETTLE_ERROR	<p>The error might be caused by the following reasons:</p> <p>Errors exist in split_fund_info. For example, the value of transOut is incorrect.</p> <p>Multiple partial refunds are requested within a same second.</p> <p>Network jitter occurs during the settlement.</p> <p><u>See TRADE_SETTLE_ERROR for details.</u></p>
TRADE_STATUS_ERROR	<p>The corresponding transaction status is not allowed for current operation.</p> <p><u>See TRADE_STATUS_ERROR for details.</u></p>
UNKNOWN	<p>In the in-store payment, if the amount is small and confidential, payment is returned to SUCCESS. If the amount is large, the confirmation payment page will be invoked, and the return code is UNKNOWN.</p> <p><u>See UNKNOWN for details.</u></p>
UNKNOWN_ERROR	<p>The service is temporarily unavailable.</p> <p>Try again later.</p>
The amount or currency of the foreign exchange purchased is wrong	<p>The transaction amount in transaction currency is rounded to 0 in the settlement currency.</p> <p><u>See The amount or currency of the foreign exchange purchased is wrong for details.</u></p>
The system is a little busy, try again later, or you can pay on the computer	<p>The customer cannot use Alipay Global Payment Products.</p> <p><u>See System is a little busy..... for details.</u></p>