ALLINPAYINTL API OATS - QR PAYMENT

Preface

This specification regulates the technical norms of internet payment products in this platform. The norms include transaction type, processes of normal and abnormal transaction, explanation of consumption field, information format and transaction message format.

The specification is raised and formulated by Allinpay Financial Holdings Co., Ltd.

The company drafting this specification: Allinpay Financial Holdings Co., Ltd.

The department drafting this specification: Department of Research and Development

1.1 Users Scope

The specification is for all the partners who cooperate with Allinpay Financial Holdings Co., Ltd and run their business through OATS.

1.2 Citing in a Standard Way

The rules in the following become the ones of this standard by citing in this standard way. For the citing documents with date, all the revised contents (exclusive of errors correcting) or revised versions are not available to this standard. Yet it is encouraged for all parties who

reached the agreement as per the standard to judge whether to use these files in the new versions or not.

1.3 Jargons and Definitions

The below jargons and definitions are applicable to the standard.

Code	Definitions
Access code	Access institution refers to partners or clients who access payment platform. The access code is unique and is assigned by the Allinpay , acess code is 8-digit number
Key Pair	The platform utilizes RSA2 signature which can be downloaded by access organization through the public key offered by the platform. Access organizations also need to provide their public key to the platform.
Client ID	Clients are retailers, individuals, companies or other organizations, who will be received payment service after signing the contract. Client ID is the unique ID which is allocated to client as per related standard during registering.
Payment User	Payment user is the one who makes a payment in the platform. Payment user can be a person or an individual merchant or an enterprise.
Clients order number	Identifying the order, clients order number is the

	unique number which is generated every time when access organization has an order. Kindly advise to set the first several numbers as date.
Reconciliation	The transaction results are checked by each other to achieve consensus on accounts.
OATS System	OATS System, which refers to 'the system' in the document.

1.4 General Technical Scheme

This chapter is mainly about the basic technical scheme through which developers can have general understanding of different technologies in the following text.

1.4.1 Access Mode

The access party gains access to the platform by HTTP Post.

1.4.2 Security

In order to ensure the data authenticity in the process of transmit, the data need to be signed digitally and the system will verify the signature after signing.

Signing algorithm: RSA2.

Data required to be signed: all the non-null fields in the message except signing fields.

Organizing method of signing data: separated by "&"and arranged in the sequence of dictionary according to key form, the signing data are organized in the mode of key-value.

Character set: UTF-8

Signing algorithm: SHA256WithRSA

Secret key: obtained in the platform, the length of secret key is 2048

e.g.

The sample of signing data:

accessCode=200000000318&authCode=288089615150808812&discountAmount=0&goodsSubject=20180626171856517&limitPay=creditCard&mchNo=666666666600003&notifyUrl=http://www.test.com/gateway/api/notify/allNotify&organId=182&outTransNo=20180626171856517&productId=1051&requestNo=Q20180626171856517&signType=RSA2&signature=xxxxxxxxxxxxxxxxxxxxxxx&storeId=20180626171833558001&terminalId=20180626171833558001&totalAmount=0&transAmount=1&version=V1.0&webNotifyUrl=http://www.test.com/test

Notes: No passing is needed for parameters without value and they are not inclusive in the data. During signing, the characters are changed into byte stream by using utf-8. In order to ensure the robustness of the API, the access system must sign all returned fields to avoid signature verification failures caused by API upgrades.

1.4.3 Message Format

Character set: UTF-8

Message Format: key-value, divided by "&"

1.5 Transaction

1.5.1 Instructions

1.5.1.1 Signal Definition

Signal		Definition
Numerical value signal of Data Element	M	Domain that must be input or output
	C	Domain that can be input or output

1.5.1.2 Definition of Data Element Type

Ax character of alphabet whose length is decided by byte x

Ax..y character of alphabet whose length varies as per byte x to y

ANx character of alphabet and/or number whose length is decided by byte x

ANx..y character of alphabet and/or number whose length varies as per byte x to y

ANSx character of alphabet, number and/or special signal whose length is decided by byte x

ANSx..y character of alphabet, number and/or special signal whose length varies as per byte x to y

ASx character of alphabet and/or special signal whose length is decided by byte x

ASx..y character of alphabet and/or special signal whose length varies as per byte x to y

Nx integer whose length is decided by byte x. If it refers to transaction amount, cent is the unit.

Nx..y integer whose length is byte x to y, if it refers to transaction amount, cent is the unit.

NSx character of number and/or of special signal whose length is decided by byte x

NSx..y character of number and/or of special signal whose length is byte x to y

Sx character of special signal whose length is decided on byte x

Sx..y character of special signal whose length varies as per byte x to y

ss second

DD day

hh hour

MM month

mm minute

YY year (2 bytes)

YYYY year (4 bytes)

VARx for compound data element set whose number of data element is x, "|"is used as division in data element and ","is as division between data element.

VARx..y for compound data element set whose number of data element is x to y, "|"is used as division in data element and ","is as division between data element.

1.5.1.3 Explanation of Domain Length Calculation

Explanation of Domain Length Calculation: all the lengths are calculated on bytes. A Chinese character occupies 2 bytes. English and number occupy 1 byte.

1.5.1.4 Explanation of Some Fields

Required Swift Number: As a sign data of every request only, this field is meaningless in business. It is advisable to submit different value for every transaction.

Version Number: the system may return different fields for different version. Please use the version number carefully.

Merchant Transaction Number: merchant transaction number and merchant number should be unique. It is advisable to keep merchant transaction number unique in access side.

1.5.2 Transaction Interface

1.5.2.1 Interface for Three Payment Methods

Function Explanation:

As the interface for Alipay, Wechat Pay, and UnionPay QR code payment, please be careful to differentiate the field property relation among different products when you use this interface.

Request Message:

Input item	Input item name	Property	Explanation	Data style
requestNo	Request swift number	M	the swift number requested by merchants	ANx..32
version	Version number	M	Interface V1.0	ANSx..6

accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to the appendix	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Digital signature data	M		VAR...
mchNo	Merchant number	M		AN..20
outTransNo	Merchant transaction number	M		ANx..32
transAmount	Transaction amount	M	The unit is cent (including tips)	N12
tipsAmount	Tips amount	C	The unit is cent	N12
currency	currency	M	Corresponding fixed merchant organization currency (if Hong Kong: HKD, Singapore: SGD)	AN..10

notifyUrl	Asynchronous notification url	M		ANSx..256
storeId	Store number	C	Store number in the system	AN..20
limitPay	Payment limit	C	It is only for Wechat Pay and Alipay It supports non-credit card only.	AN..20
authCode	Authorization code	C	It is required when customers make the payment by presenting their Allipay, Wechat Pay or UnionPay code to the merchant.	ANSx..100
expireTime	Valid time of the order	C	It is calculated on a basis of minute, 30 minutes are default time if exact time is not input. (Paynow QR code is 3 minutes)	N..10
openId	Wechat	C	It is required when payment is made by Wechat Official Account.	ANx..256
terminalIp	Terminal ip	C	It is required when payment is made by Wechat official account or Wechat APP.	ANSx..20
subAppid	Wechat sub app id	M	It is required when payment is made by Wechat official account	AN..32
goodsDetail	Goods detail	C	It is optional when payment is made by Alipay PC, APP, or H5.	ANx..1000

			E.g. kids clothing	
returnUrl	Return url after payment	C	It is required when payment is made by Alipay APP or H5. e.g. https://www.allinpay.com/test.html	ANSx..200
referUrl	Merchant website url	C	It is required when payment is made by Alipay PC, APP or H5. e.g. https://www.allinpay.com/test.html	ANSx..200
paymentInstitution	Payment organization	C	It is required when payment is made by Alipay PC, APP or H5. It supports ALIPAYHK and ALIPAYCN only.	Ax..8
supplier	Supplier's name is displayed in the title of payment page	C	It is optional when payment is made by Alipay H5.	ANSx..16
appenv	APP Operation environment	C	It is required to insert when payment is made by Alipay APP. Example:appenv="system=android^version=3.0.1.2"	ANSx..50

tradeInformation	Transaction Information	C	It needs to be inserted when payment is made by Alipay PC, APP, or H5. It is required when wallet type is ALIPAYCN, yet when wallet type is ALIPAYHK, it is optional. Example:{"business_type":"1","hotel_name":"test-01","check_in_time":"2018-10-20","check_out_time":"2018-10-22"}	ANSx..600

Trade Information:

Input item	Input item name	Property	Explanation	Data style
business_type	Business Type	M	Business type. 5 types are supported: 1: Hotel 2: AIR 3: Overseas study consulting 4: Sales of goods 5: Others, including all the other business types that do not fall into the above 4 categories. For example, mobile data service recharge, airport pick up service, etc.	

			If more than one type is involved, use the "|"to separate type values. Example:1|2|3|4|5 or 1	
hotel_name	Hotel name	C	If more than one type is involved, hotel names are divided by (|). E.g. test-01| test-02|test-03	
check_in_time	Check in time	C	Format: yyyy-MM-dd; time zone: GMT+8 It is required when business type is 1. E.g. 2018-10-22	
check_out_time	Check out time	C	Format: yyyy-MM-dd; time zone: GMT+8 It is required when business type is 1. E.g. 2018-10-22	
flight_number	Flight number	C	It is required when business type is 2. If more than one type is involved, flight numbers are divided by (|). E.g. test-01| test-02|test-03	
departure_time	Departure time	C	Format: yyyy-MM-dd; time zone: GMT+8; It is required when business type is 2. E.g. 2018-10-22	

admission_notice_url	Admission notice url	C	It is required when business type is 3. e.g. https://www.allinpay.com/test.html	
goods_info	Product information	C	It is required when business type is 4. If there are many products, name^number are separated by (|). e.g. Example:pencil^2|eraser^5|pen^2	
total_quantity	Product weight	C	It is required when business type is 4. e.g. 8	
other_business_type	Tips amount	C	It is required when business type is 5. Airport pick up service	

Response Message:

Output item	Output item name	Property	Explanation	Data style
requestNo	Request swift number	M	swift number requested by merchant	ANx..32
version	Version number	M	Interface V1.0	ANSx..6

accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix.	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Signature date	M		VAR
mchNo	Merchant number	M		AS..30
outTransNo	Merchant's transaction number	M		AS..32
returnCode	Return status code	M		AN..8
returnMsg	Message of return status code	M		ANS..128
resultCode	Business result code	C	return code of specific business result	AN..8
resultMsg	Message of business result code	C	Message of specific business result code	ANS..128

codeUrl	Contents of QR code	C	Return during making payment by QR code (Paynow Code period of validity is 3 minutes)	ANS..256
payInfo	Public payment information	C	Return during making payment by Alipay PC, APP, H5, Wechat Official Accounts and mini programs. For the json strings which are required by Alipay PC, APP, H5, and official accounts, Please refer to 'Dmeo'.	ANS..1000
bankUserId	User identification	C	Wechat returns to openid, Alipay returns to userId Customer user number of Wechat or Alipay consumption.	AS..64
transNo	Transaction number of the platform	C		AS..32
payTime	Payment completion time	C	Format: yyyyMMddHHmmss, time of the system	AS..14
bankTradeNo	Bank trade number	C	The current return trade number of Wechat or Alipay	AS...64

1.5.2.2 Order Inquiry

Function Explanation

By transaction state inquiry, the current transaction state of every order can be inquired.

For a timeout or in-process transaction that requires query results, the interval between each query should not be less than 10 seconds.

Request Message:

Input item	Input item name	Property	Explanation	Data Type
requestNo	Request swift number	M	The swift number requested by clients	ANx..32
version	Version number	M	Interface V 1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
oriOutTransNo	Original transaction number of	M		AS..32

	merchant			

Response Message:

Output item	Output item name	Property	Explanation	Data style
requestNo	Request swift number	M	Swift number requested by clients	ANx..32
version	Version number	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
transType	Transaction type	M	Please refer to appendix	
transAmount	Transaction amount	M	Transaction amount, the unit is cent	N12
currency	Currency	M		AN..10
transNo	Transaction number of the system	C		AS..32

payTime	Payment completion time	C	Payment completion time yyyyMMddHHmmss	AS..20
bankUserId	User identification	C	Wechat returns to openid, Alipay returns to userId Customer user number of Wechat or Alipay consumption.	AS..64
bankTradeNo	Bank trade number	C	The order number which helps return to Wechat or Alipay at present.	AS...32
returnCode	Return status code	M		AN..8
returnMsg	Message of return status code	M		ANS..128
resultCode	Business result code	C	return code of specific business result	AN..8
resultMsg	Message of business result code	C	Message of specific business result code	ANS..128

1.5.2.3 Refund

Function Explanation

After completing the transaction, refund can be initiated, it usually takes 3-6 mouths to complete the refunding as per the bank channel. The time is dependent on the clients' agreement.

The total amount of refunding cannot exceed the total amount of original transaction.

Request Message:

Input item	Input item name	Property	Explanation	Data Type
requestNo	Request swift number	M	Swift number requested by the clients	ANx..32
version	Version number	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to the appendix	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
outTransNo	Merchant transaction number	M		AS..32
oriOutTransNo	Original clients' transaction number	M		AS..32

			The amount applied for refunding, the unit is cent	N12
transAmount	Refund amount	M	The amount applied for refunding, the unit is cent	N12
currency	Currency	M		AN..10
refundReson	Refunde reason	C	The reason for refunding	AS..256
notifyUrl	Asynchronous notificaiton url	M		AS..256

Response Message

Output item	Output item name	Property	Explanation	Data style
requestNo	Request swift number	M	Swift number requested by the clients	ANx..32
version	Version number	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to the appendix	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merhcant number	M		AS..30

outTransNo	Merchant track	M		AS..32
transAmount	Transaction amount	M	The amount applied for refunding, the unit is cent.	N12
transNo	Refunding number of the platform	C		AS..32
bankTradeNo	Trade number of bank	C	The order number which helps return to Wechat or Alipay at present.	AS...32
returnCode	Return status code	M		AN..8
returnMsg	Message of return status code	M		ANS..128
resultCode	Result code	C		AN..8
resultMsg	Result message	C		ANS..128

1.5.2.4 Void

Function explanation

Void can be used to reverse the transaction of the same day. Failure will always be presented if voiding the transaction of other time. Only successful transactions are acceptable to be voided.

Request Message:

Input item	Input item name	Property	Explanation	Data Type
requestNo	Request swift number	M	Swift number requested by clients	ANx..32
version	version	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
outTransNo	Customers transaction number	M		AS..32
oriOutTransNo	Original clients' transaction number	M		AS..32
notifyUrl	Asynchronous notification url	M	Asynchronous notification url	AS..256

Response Message:

Output item	Output item name	Property	Explanation	Data style
requestNo	Request swift code	M	Swift code requested by clients	ANx..32
version	Version number	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20
signType	Signing Algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
outTransNo	Merchant transaction number	M		AS..32
bankTradeNo	Bank transaction number	C	The order number which helps return to Wechat or Alipay at present.	AS...32
returnCode	Return status code	M		AN..8
returnMsg	Message of return status	M		ANS..128

	code			
resultCode	Business result code	C	return code of specific business result	AN..8
resultMsg	Message of business result	C	Message of specific business result code	ANS..128

1.5.2.5 Order Closing

Function Explanation

It is supported to close transaction by QR code payment of Wechat and Alipay .

Close interface can be used in below situations: A new order number needs to be generated to initiate payment after merchant's order payment fails. To avoid repeated payment, the original order needs to be closed. After ordering in the system, if users' payment time out, the system will quit and stop to deal with the order. To avoid continuation of paying, please use order close interface.

Request Message:

Input item	Input item name	Property	Explanation	Data Type
requestNo	Request swift number	M	Swift number requested by clients	ANx..32
version	version	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20

signType	Signing algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
outTransNo	Customers transaction number	M		AS..32
oriOutTransNo	Original clients' transaction number	M		AS..32
notifyUrl	Asynchronous notification url	M	Asynchronous notification url	AS..256

Response Message

Output item	Output item name	Property	Explanation	Data style
requestNo	Request swift code	M	Swift code requested by clients	ANx..32
version	Version number	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20

signType	Signing Algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
outTransNo	Customers order number	M		AS..32
returnCode	Return status code	M		AN..8
returnMsg	Message of return status code	M		ANS..128
resultCode	Business result code	C	return code of specific business result	AN..8
resultMsg	Business result code message	C	Message of specific business result code	ANS..128

1.5.2.6 Asynchronous Notification

Function Explanation

After completing the transaction successfully by customer's scanning the merchant's code, the payment platform will push the notification to the access organization.

After receiving successfully, access organization needs to return SUCCESS to the payment platform.

The notification would be considered to fail, if the payment platform receives it unsuccessfully or not in the set time. The platform would initiate the notification timely through some methods and try to improve the success rate, but no guarantee of success can be given to all the notice.

Request Message

Output item	Output item name	Property	Explanation	Data style
requestNo	Request swift code	M	Swift code requested by clients	ANx..32
version	Version number	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20
signType	Signing Algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
mchNo	Merchant number	M		AS..30
outTransNo	Merchantt transaction number	M		AS..32
transAmount	Transaction amount	M	Total amount of transaction, and the transaction	N12

currency	currency	M		AN..10
resultCode	Business result code	C	return code of specific business result	AN..8
resultMsg	Business result code message	C	Message of specific business result code	ANS..128
transNo	Platform transaction number	M	Platform transaction number	AS..32
bankTradeNo	Bank trade number	C	The order number which helps return to Wechat or Alipay at present.	AS...32
payTime	Payment completion time	C	Payment completion time yyyyMMddHHmmss	
bankUserId	User identification	C	Wechat returns to openid, Alipay returns to userId Customer user number of Wechat or Alipay consumption.	AS...64

1.5.3 Interface of File Download

1.5.3.1 Reconciliation

Function Explanation

This interface is for completing reconciliation automatically in merchant system. The application for reconciliation can be made in the next day after completing the transaction.

Request Message

Input item	Input item name	Property	Explanation	Data Type
requestNo	Request swift number	M	Swift code requested by the platform	ANx..32
version	version	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20
signType	Signing algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
billDate	Request swift number	M	Reconciliation date: yyyyMMdd	N8

Response Message

Output item	Output item name	Property	Explanation	Data style
requestNo	Request swift	M	Swift code requested by	ANx..32

	code		clients	
version	Version number	M	Interface V1.0	ANSx..6
accessCode	Access code	M	access code is 8-digit number, is uniformly assigned by Allinpay	AN..20
transType	Transaction type	M	Please refer to appendix	AN..20
signType	Signing Algorithm	M	RSA2	AN..8
signature	Signature data	M		VAR...
returnCode	Return status code	M		AN..8
returnMsg	Message of return status code	M		ANS..128
resultCode	Business result code	C	return code of specific business result	AN..8
resultMsg	Message of business result code	C	Message of specific business result code	ANS..128
billData	Reconciliation file contents	C	Base64 decode	

Instructions of Reconciliation Files Format

1. The contents in every line of the files must meet the standard of format. And every line must be ended by pressing ENTER to the next line.

2. The data are separated by comma ","

3. It is not necessary to fill any information in the related data (including Space Bar), if the data is null.

4. The last line shows the aggregate information.

The recorded statical information in the bottom line of the file

Sequence	Field Name	Explanation
1.	Summary	
2.	Transaction Date	
3.	Settlement Currency	
4.	Payment Amount	
5.	Total Service Charge of Transaction	
6.	Settlement Total Amount	
7.	Total Number of Transaction	
8.	Transaction total amount	
9.	Total discount	

5. Explanation of Data Domain of Reconciliation Details

Sequence	Field Name	Explanation
1.	Transaction Date	yyyyMMdd
2.	Merchant number (null is ok)	
3.	Merchant name	
4.	Terminal number	
5.	Transaction order number	
6.	Transaction type	
7.	Card number	
8.	International credit card organizations	
9.	POS Batch Number	
10.	POS Swift Number	
11.	Transaction time	yyyy-MM-dd HH:mm:ss
12.	Transaction currency	
13.	Payment amount	as per ISO currency decimal
14.	Tips amount	
15.	Settlement currency	

16.	Settlement amount	
17.	Service charge of transaction	
18.	Total amount	
19.	Total discount	
20.	Settlement exchange rate	
21.	Original Transaction order number	
22.	Remarks (extension)	

1.6 Access Process

1.6.1 Interface Development

Development personnel of access organization integrate with the interfaces according to their business needs.

Supporting Java language, the platform provides demos of encryption and digital signature and demos of decryption and signature verification.

1.6.2 Integration testing

Before integration, access organization needs to apply for testing service ID with the operation team of the platform. Please contact the operation personnel for relevant materials. Don't test by a large amount. (Note: all the transactions initiated in this platform are in the real payment environment.) The testing amount would not be settled.

1.6.3 Parameters and Certificates

Access Code	Access Code needs to be applied to the Allinpay operation team.
Merchant Number	There are two ways to get the Merchant No., initiating the registration by API or Assigned by the Allinpay operation team. If you need to complete the Merchant registration by API, the system will return the Merchant No when the registration is successful.
Public key of access organization	Access organization logs in to the Organization Web platform and submits the public key certificate whose length of RSA2 secret key is 2048.
Public key of payment platform	Access organization please logs in to the Organization Web platform to download the testing public key.

Testing parameters: please refer to the samples in the appendix.

Productive parameters: please apply to operation team.

1.6.4 Request URL

Request API URL

Testing environment	Transaction interface URL： https://test.allinpayhk.com/gateway/pay/consumeTrans

	Reconciliation files download URL: https://test.allinpayhk.com/gateway/download/downloadbill

1.6.5 Being Online Formally

After the integration of access organization passed the testing verification, the relevant materials will be offered to operation team and then apply for entry to make transaction.

1.7 Transaction Return Code

1.7.1 Return Status Code

Field of return code relevant to response message.

Response Code	Explanation	Remarks
Succeed		
0000	succeed	Judge the transaction result by result+Code
Fail		
others	all fail	

1.7.2 Business Result Code

Field of resultCode relevant to response message

Response Code	Explanation	Remarks

Succeed		
0000	succeed	transact successfully
Processing, the transaction result needs to be confirmed by sending transaction inquiry.		
P000	Transaction is processing	It will return P000 when order successfully by customers' scanning merchants' code or official accounts.
9997	The transaction result is not confirmed.	
Fail		
0001	The request parameters are illegal	
0002	Merchant ID cannot be null	
0003	Merchant order number cannot be null	
0004	The mobile phone number recorded by the bank cannot be null.	
0005	Transaction amount cannot	

	be null.	
0006	Card number cannot be null.	
0007	Order doesn't exist	
0008	transaction at risk	
0009	Verifying signature field cannot be null.	
0010	Merchant information doesn't exist.	
0011	Merchant status is abnormal	
0012	Failure in verifying signature	
0013	Secret key information doesn't exist.	
0014	Secret key has been ineffective	
0016	Product information doesn't exist.	
0017	Product information status is abnormal.	
0018	unauthorized transaction	

0019	failure in creating order	
0022	the order is recurrent	
0023	transaction amount exceeds the limit	
0024	order to be voided	
0025	original transaction doesn't exist.	
0026	The status of original transaction is abnormal	
0027	Transaction amount is illegal	
0029	original transaction has been voided.	
0031	Original transaction has initiated voiding or refunding.	
0032	Original transaction doesn't support voiding.	
0033	The last voiding is processing	

0034	The last refunding is processing	
0035	Transaction is not allowed during the period of time.	
0036	The transaction doesn't support refunding.	
0038	Order has been paid and is not allowed to close.	
0039	Order has been closed.	
0040	The order is abnormal and please contact the administrator.	
0045	Access organization ID is wrong.	
0046	The status of access organization ID is abnormal	
0047	Unauthorized transaction	
0048	The size of the files exceeds the limit, the maximum size is 5M	
0049	The organization status is	

	abnormal	
0051	The transaction is processing.	
0055	Transaction amount is irrelevant to the one of original transaction	
0056	The order has been partially refunded.	
0058	The mission has been executing, and don't initiate repeatedly.	
0074	The order has been paid.	
0076	The QR code has expired. Please ask the user to refresh it.	
0077	The card type is not supported.	
0078	Parameters of authorization code are wrong.	
0079	The result of verifying authorized code is wrong.	

0080	The Wechat Pay ID is wrong.	
0081	Wechat APPID doesn't exist.	
0082	Wechat MCHID doesn't exist.	
0083	Wechat APPID doesn't match MCH_ID	
0084	Information of channel link doesn't exist.	
0085	Channel terminal has signed in	
3003	Triggering risk management of amount limit of one order, since transaction amount exceeds the limit of one order	
3004	Triggering risk management of amount limit of one day, since transaction amount exceeds the limit of one day	
3009	Lower than starting limit of transaction	
3010	The number of transaction	

	in one day exceeds the limit	
3200	Product lacks rate	
3201	Only one T1 rate is allowed for non-acquiring or quick product	
3203	The organization you belong to has not used the product.	
3205	The product rate cannot be higher than 1	
3206	The product rate is lower than the one of the organization you belong to	
3207	the lowest amount of the product is lower than the one of the organization you belong to	
3406	The systematic secret key is wrong	
9994	The format of time inquiry is wrong	

9996	The system is busy	
9998	Transaction fails	
9999	Unknown mistake, please contact the administrator.	
R000	Order to be voided	

1.8 Appendix

1.8.1 Bank Code

ICBC	Industrial and Commercial Bank of China
ABC	The Agricultural Bank of China
BOC	Bank of China
CCB	China Construction Bank
CMB	China Merchants Bank
BOCM	Bank of Communications
CMBC	China Minsheng Banking Corp
CNCB	China Citic Bank
CEBB	China Everbright Bank

CIB	Industrial Bank Co
BOB	Bank of Beijing
GDB	China Guangfa Bank
HXB	Hua Xia Bank Co
PSBC	Postal Savings Bank of China
SPDB	Shanghai Pudong Development Bank
PAB	Ping An Bank Co
BOS	Bank of Shanghai
BOHC	China Bohai Bank Co
BOJ	Bank of Jiangsu

1.8.2 Transaction Type

Wechat Pay in merchant-present mode	WXPAY_SCANCODE
Wechat Pay in consumer-present mode	WXPAY_MICROPAY
Wechat Pay by APP	WXPAY_APP
Wechat Pay by Mini Program	WXPAY_MINAPP
Wechat Pay by official account (authorized by the service	WXPAY_BRANCH_MP

provider)	
Wechat Voiding	WXPAY_CANCEL
Wechat Refunding	WXPAY_RETURN
Alipay in merchant -present mode	ALIPAY_SCANCODE
Alipay in consumer-present mode	ALIPAY_MICROPAY
Alipay by PCWEB	ALIPAY_PCWEB
Alipay by H5	ALIPAY_H5
Alipay by APP	ALIPAY_APP
Alipay Voiding	ALIPAY_CANCEL
Alipay Refunding	ALIPAY_RETURN
UnionPay in merchant present mode	UNIONPAY_SCANCODE
UnionPay in consumer present mode	UNIONPAY_MICROPAY
UnionPay Voiding	UNIONPAY_CANCEL
UnionPay Refunding	UNIONPAY_RETURN
Order close	CLOSE_ORDER
Transaction inquiry	TRANS_QUERY

Download reconciliation files	DOWNLOAD_CHECK_BILL
PayNow scan code	PAYNOW_SCANCODE
PayNow Refunding	PAYNOW_RETURN
PayNow Voiding	PAYNOW_CANCEL

1.8.3 Currency

人民币	CNY
港币	HKD
美元	USD
加币	CAD
新币	SGD