

System docking documents

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docking process

- 1、Log in to your merchant backend-"Account information-"Set merchant key
- 2、View the platform public key and upload the merchant public key
- 3、Generation steps: <http://www.metools.info/code/c80.html>, generate a pair of PKCS#8 (1024) key pairs. Please save the private key by yourself and upload the public key to the background.

[RSA公私钥生成](#)
[RSA加密解密](#)
[RSA签名验签](#)
[RSA公私钥对验证](#)
[RSA私钥格式转换](#)

密钥长度:
 密钥格式:
 私钥密码:

RSA加密公钥:

```

-----BEGIN PUBLIC KEY-----
MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCX25ZGdJV8IE7KKROMAc5r6rSo
KwBSx0N/4YcnVgWEYUwyrjc19T3j/IVuh/+FS4E0N7tVFNGT12lfmwTxIZ96flN
/gFHfxEpybVE6/QzikzE4lsggpfG6vDzApsP2aFChw6xk0IFWuYUon+fMCDgv7
6DoYtbQsXCrFA51kmwIDAQAB
-----END PUBLIC KEY-----

```

RSA加密私钥:

```

-----BEGIN PRIVATE KEY-----
MIICdgIBADANBgkqhkiG9w0BAQEFAASCAmAwggJcAgEAAoGBAJfbkZ0IXwgTsop
E4wBzmvqtKgrAFLHQ3/hhydWDARhTDKuNzX1PeP8hW6H/4VLgTQ3u1UWcZO3aWN+
fBPGVn3p+U3+AUd/ESnJtUTr9DOKTMTglyCB+l8bq8PMCmw/ZoUKHDrGTQgV9a5h
Sif58wIQC/voOhi1tCxcKsUDnWSbAgMBAAECgYBhPQW79bkms1VgU+8ITp7MMY0e
xfI+D0RkpZgykwG86ESviyITzUjQLZ8MW9n/hlsyqcU8/skOGSuhfaTfwQwPdfR
9SGGIMVHJrP4WTGJdE5u7gXe2twEEr4Mf/eqqX9smTjJM3aGccGrTGPu2VW3Voy
iZdm+dh6VgT9lqxeqQJBAMZYLDfHvnoEC6dbW1GI/BsdD18HArFtbRr6VeOWLNit
vT8tjqTFu6veGftgz0bOGAZLYTGGLdtV+eWxDECrcCQQDEABphy51xGpA0R4Ht
Xyb6Axb+DJyl6PzFcJ43ZChDAP7Wi1nPGdprg0DxwPvzolEgXJxFAC0Biy7SkFYC
duKNAkAdYXpKY0JluMixJctFLLGLoqZgQT2Y4sjCskp+yAQkpLff3/O9XL0MH5k
ylZMGfgj5/DaNi37HetjuXBDNCJAKBwBN8PJaBGFdh2qKfJUqikGz/40px09kQB
-----END PRIVATE KEY-----

```

- 4、Please remove BEGIN/END PRIVATE KEY and BEGIN/END PUBLIC KEY from both public and

private keys, and then remove excess spaces (you can use online tools <http://www.esjson.com/delSpace.html>)



- 5、Bind the IP of the submission service
- 6、Refer to the interface list below for docking
- 7、There is a java version of the demo available in the demo.
- 8、For test merchants, please contact customer service to add
- 9、Log in to the test backend <http://52.74.165.63:81> and operate steps 1-4.

Interface specification

All interfaces and callbacks use HTTP POST JSON, with the header Content-type: application/json
API address

Test address: 52.74.165.63:8040

Production address: gateway.zippay-in.com

Interface signature

- 1、Use the private key to encrypt the parameter json with rsa. Empty and empty strings are not involved (please refer to the RechargeOrderDemo class in the demo).
- 2、Callback decryption uses the platform public key to exclude the sign parameter and perform rsa decryption. Empty and empty strings are not involved (refer to the RechargeCallbackController class in the demo)
- 3、The data types must correspond, and the json data needs to be sorted in dictionary order, otherwise the signature may not be possible.

interface list

Collection interface

Request address: [api address/payment/payin](#)

Encryption rules:

Splice the merchant ID, order ID, amount, nonce, timestamp values and perform rsa encryption

For example

```
rsa.encryptBase64(payloadRequest.getMerchantId() + payloadRequest.getMerchantOrderId() +  
payloadRequest.getAmount() + payloadRequest.getNonce() + payloadRequest.getTimestamp())
```

Field name	Is it necessary	type of data	illustrate
merchantId	yes	Long	merchant id
merchantOrderId	yes	string	Merchant order id
amount	yes	BigDecimal	Amount, such as 10.02
phone	yes	string	User phone number
email	yes	string	User email
name	yes	string	username
uid	no	string	user id
ip	no	String	user ip
tunnelId	yes	Integer	Channel id (default filled:1203)
currency	yes	string	Currency
nonce	yes	string	Random string, no more than 32 characters
timestamp	yes	Long	The timestamp when the request was initiated
sign	yes	string	sign

Return results synchronously

```
{  
  "code": 200,  
  "msg": "Operation successful",  
  "data": {  
    "merchantId": 1,  
    "merchantOrderId": "12356",  
    "payUrl": "https://upi.payplus.live/pay/insta/vpa.html?orderId=167549208838755",  
    "platformOrderId": "1230204142807893191",  
    "timestamp": 1675492088155  
  },  
  "success": true  
}
```

Parameter Description

parameter name	type	illustrate
code	int	200 success
msg	string	describe
success	boolean	whether succeed
data	json	Business data, the following data will be returned only when the code is 200
data.merchantId	long	merchant id
data.merchantOrderId	string	Merchant order id
data.payUrl	string	Payment address
data.platformOrderId	string	Platform order number
data.timestamp	string	Order timestamp

Call back notice on behalf of

After receiving the callback, please return a string no matter what the situation is.**success**It means it has been received, otherwise it will be called back multiple times (up to five times). Please do idempotent processing by yourself.(All non-empty fields toJson, and ABCD order sorting encryption)

Field name	type of data	illustrate
code	int	Status code 1 is success
msg	string	describe
merchantOrderId	string	Merchant order id
platformFormOrderId	string	Platform order id
amount	string	Amount
realAmount	string	The actual amount
sign	string	sign

Collection inquiry interface

Request address: api address/payment/rechargeOrderquery, choose 1 from 3 order numbers, support checking orders of the current month and last month, please bring orderTime for orders outside the range

(All non-empty fields toJson, and ABCD order sorting encryption)

Request fields:

Field name	Is it necessary	type of data	illustrate
merchantId	yes	Long	merchant id
merchantOrderId	no	string	Merchant order id
nonce	yes	string	Random string, no more than 32 characters
timestamp	yes	Long	The timestamp when the request was initiated
platformOrderId	no	string	Platform order id
utr	no	String	utr
orderTime	no	long	Order timestamp
sign	yes	string	sign

Response fields:

Field name	type of data	illustrate
code	int	Status code 200 is successful
msg	string	describe
data	object	
data.merchantId	long	merchant id
data.merchantOrderId	string	Merchant order id
data.platformOrderId	string	Platform order number
data.status	Int	Status, 1 means paid
data.orderAmount	string	order amount
data.realAmount	string	The amount actually paid

Merchant balance inquiry interface

Request address: api address/payment/merchantQuery

(All non-empty fields toJson, and ABCD order sorting encryption)

Request fields:

Field name	Is it necessary	type of data	illustrate
merchantId	yes	Long	merchant id
nonce	yes	string	Random string, no more than 32 characters
timestamp	yes	Long	The timestamp when the request was initiated
sign	yes	string	sign

Response fields:

Field name	type of data	illustrate
code	int	Status code 1 is success
msg	string	describe
data	object	
data.merchantId	long	merchant id
data.payBalance	BigDecimal	Pay balance

Payment interface

Request address: api address/payment/payout

Request fields:

Splice the merchant ID, order ID, amount, nonce, timestamp values and perform rsa encryption

For example

```
rsa.encryptBase64(payloadRequest.getMerchantId() + payloadRequest.getMerchantOrderId() +  
payloadRequest.getAmount() + payloadRequest.getNonce() + payloadRequest.getTimestamp())
```

Field name	Is it necessary	type of data	illustrate
merchantId	yes	Long	merchant id
merchantOrderId	yes	string	Merchant order id
amount	yes	BigDecimal	Amount, such as 10.02
phone	yes	string	User phone number
email	yes	string	User email
uid	no	string	user id
ip	no	String	user ip
tunnelId	yes	Integer	Channel id (default: 1188)
currency	yes	string	Currency
nonce	yes	string	Random string, no more than 32 characters
timestamp	yes	Long	The timestamp when the request was initiated
account	yes	string	Account number (bank card number or vpa)

accountName	yes	string	Account name
address	yes	string	address
subBranch	yes	string	india for ifsc
withdrawType	yes	int	1 is bank card 2 is UPI
bankName	yes	string	Bank name
remark	yes	string	Remark
sign	yes	string	sign

Response fields:

Field name	type of data	illustrate
code	int	Status code 200 is successful

msg	string	describe
success	boolean	whether succeed
data	object	
data.merchantId	long	merchant id
data.merchantOrderId	string	Merchant order id
data.platformOrderId	string	Platform order id
data.timestamp	long	Timestamp

```
{
  "code": 200,
  "msg": "Operation successful",
  "data": {
    "merchantId": 1,
    "merchantOrderId": "test1234531",
    "platformOrderId": "2230220224108597451",
    "timestamp": 1676904068856
  },
  "success": true
}
```

Payment callback notification

After receiving the callback, please return a string no matter what the situation is. **success** Indicates that it has been received, otherwise it will be called back multiple times (up to five times). Please do idempotent processing by yourself.

(All non-empty fields toJson, and ABCD order sorting encryption)

Field name	type of data	illustrate
code	int	Status code 1 is success, 2 is failure
msg	string	describe
merchantOrderId	string	Merchant order id
platformFormOrderId	string	Platform order id
sign	string	sign
utr	string	Utr Bank transaction voucher. If the transaction is successful, most banks will return it. If it is empty, it will not participate in the signature.

Payment inquiry interface

Request address: api address/payment/exchangeOrderquery, supports checking orders for the current month and last month, please bring orderTime for orders outside the range

(All non-empty fields toJson, and ABCD order sorting encryption)

Request fields:

Field name	Is it necessary	type of data	illustrate
merchantId	yes	Long	merchant id
merchantOrderId	no	string	Merchant order id
nonce	yes	string	Random string, no more than 32 characters
timestamp	yes	Long	The timestamp when the request was initiated
platformOrderId	no	string	Platform order id
utr	no	String	utr
orderTime	no	long	Order timestamp
sign	yes	string	sign

Response fields:

Field name	type of data	illustrate
code	int	Status code 200 is successful
msg	string	describe
data	object	
data.merchantId	long	merchant id
data.merchantOrderId	string	Merchant order id
data.platformOrderId	string	Platform order number
data.status	Int	Status, 1 means paid

```

{
  "code": 200,
  "msg": "Operation successful",
  "data": {
    "merchantId": 1,
    "merchantOrderId": "test1234563",
    "platformOrderId": "2230220144722660601",
    "payStatus": 0
  },
  "success": true
}

```

Error code and description

error code	illustrate
100000	Server exception
100001	Insufficient channel balance
100002	Signature error
100003	Merchant channel closed
100004	Merchant channel is not available
100005	Merchant public key is not set
100006	Channel configuration error
100007	The callback address is not set
100008	Failed to generate order
100009	Duplicate order number
100010	Order number is empty
100011	Order does not exist
100012	Merchant query failed
100012	Order expired
100013	Order configuration not found
100014	Wrong amount
100015	Submission frequency is limited
100016	Daily quota is limited

