

**Omipay Web API**

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| --- | --- |
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| --- | --- | --- |
| Modify Date | Modifier | Description |
| 2017-10-30 | Max.Wong | Some details fixed. |
| 2017-11-30 | Max.Wong | Add CN API node. |
| 2017-12-20 | Max.Wong | 1. Add Online / APP Payment method2. Add *pos\_no* parameter in MakeJSAPIOrder method3. Add *o\_number* parameter in some methods. |

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1. Rules
	1. Protocol Rules

|  |  |
| --- | --- |
| Transafer Mode | HTTPS |
| Submit Mode | POST/GET |
| Receive Data Format | Json |
| Text Encoding | UTF-8 |
| Sign Algorithm | MD5 |
| Data Sending Format | Sending data as URL parameter |
| Http Header | ContentType=application/json |
| Expiring | Transaction expires in 5 minutes |

* 1. Parameter Rules

1）Amount

 Amount uses the smallest unit of transaction currency, must be integer value.

e.g. amount 100 of currency AUD would be equivalent to A$1.00.

2）Currency

 The only currency type we support is AUD (Australian dollar).

3）Time zone

 System time zone is EST (East Standard Time).

4）Timestamp

 Convert current UTC time to milliseconds.

5）Nonce string

 The random string witch length in 10-32 characters，allows the characters in a-z | A-Z | 0-9.

6）Payment platform

 Omipay supports the payment platforms below:

|  |  |
| --- | --- |
| Platform name | The value of parameter *platform*  |
| Wechat Pay | WECHATPAY |
| Alipay | ALIPAY |

7） language

 Omipay WebAPI supports the languages below:

|  |  |
| --- | --- |
| Language | The value of parameter *language* |
| English | EN |
| Simplified Chinese (Default) | CHS |

* 1. Signature verification

 1）Parameters

 The parameters for verifying as below:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| m\_number | String | Merchant number, can be found in merchant background system. |
| timestamp | Long | Time stamp, refer to *Timestamp* in *Parameter Rules* |
| nonce\_str | String | Random string, refer to *Nonce string* in *Parameter Rules* |
| secret\_key | String | API Secret key of merchant, acquired from merchant background system. This parameter is for private, don’t let it shown in any public place. |

 2）Generate signature

 ① Concatenate all the parameters above like this:

 *m\_number&timestamp&nonce\_str&secret\_key*

Make sure it’s in the correct order.

② Use the concatenated string to make a signature string with MD5 algorithm, and then turn it into uppercase.

③ Put the signature string as a part of the query parameters, and then call the web api.

e.g.:

The parameters below:

|  |  |
| --- | --- |
| m\_number | 123456 |
| timestamp | 1482812036067 |
| nonce\_str | 313644f42ecd4758b5e23b80e86efdc4 |
| secret\_key | 0af61531c6c04ac4ac910d0cd59e6238 |

The concatenated string below:

123456&1482812036067&313644f42ecd4758b5e23b80e86efdc4&0af61531c6c04ac4ac910d0cd59e6238

The code of making sign string below:

**C#:**

 *var originString = “123456&1482812036067&313644f42ecd4758b5e23b80e86efdc4&0af61531c6c04ac4ac910d0cd59e6238”;*

 *var md5 = MD5.Create();*

*var bs = md5.ComputeHash(Encoding.UTF8.GetBytes(originString));*

*var sb = new StringBuilder();*

*foreach (byte b in bs)*

*{*

*sb.Append(b.ToString("x2"));*

*}*

*originString = sb.ToString().ToUpper();*

**PHP:**

*$originString = ‘123456&1482812036067&313644f42ecd4758b5e23b80e86efdc4&0af61531c6c04ac4ac910d0cd59e6238’;*

*$sign = strtoupper(md5($originString));*

Get the signature string:

*sign=”516A3B52F9C8897F52239B19CD8A499”*

and then put it into the parameter string, we can get the parameter below:

*m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499*

Use this string for signature verifying.

1. API List
2. Get current exchange rate
* Description：

Get the current exchange rate of AUD to CNY, which is provided by WeChat, refreshes in a day. This exchange rate is only for reference.

* API address:

<https://www.omipay.com.au/omipay/api/v2/GetExchangeRate>

<https://www.omipay.com.cn/omipay/api/v2/GetExchangeRate>

* Parameters (except the sign verifying parameters, all the APIs are as the same.)

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| currency | String | AUD | The currency code which follows the ISO-4217 standard.  |
| base\_currency | String | CNY |
| platform | String | WECHATPAY | Not mandatory, defaults ***WECHATPAY*** |
| language | String | EN | Not mandatory, defaults ***CHS*** |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | When execute succeed, returns SUCCESS,it shows the result of API execution. |
| rate | Decimal | 5.01540000 | Current exchange rate |
| platform | String | WECHATPAY |  |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | When execute failed, returns FAIL  |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | System error. | Description of error |

* Error code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters, may caused by mandatory parameter missing, or parameter data type not correct. |
| SIGN\_TIMEOUT | Time stamp is expired. The timestamp is less for more than 5 minutes to server time. |
| MERCHANTNO\_INVALID | Merchant number is invalid. Please check the merchant number from merchant background system.  |
| SIGN\_ERROR | Signature check failed. Please check the signature string. |
| SYSTEM\_ERROR | System unhandled error. |
| CURRENCY\_ERROR | Currency type error. May cause by the exchange rate can’t be gained, or the currency type is not supported. |

* Request example:

<https://www.omipay.com.cn/omipay/api/v2/GetExchangeRate>? m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&currency=AUD&base\_currency=CNY

* Success returns example:

{

 "return\_code": "SUCCESS",

 "rate": 5.01540000

}

* Fail returns example

{

 "return\_code": "FAIL",

 "error\_code": "SIGN\_TIMEOUT",

 "error\_msg": "Sign time out."

}

1. Make QRCode Order
* Description:

QRCode order suits for the scene of non-WeChat/Alipay client web based payment. Merchant can call this API to get a string for payment, and then show this string to customer as a QRCode; Customer would scan this QRCode with WeChat to call the WeChat Payment function.

* API address:

<https://www.omipay.com.au/omipay/api/v2/MakeQROrder>

<https://www.omipay.com.cn/omipay/api/v2/MakeQROrder>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| order\_name | String | Test\_Order | The simple order information. |
| currency | String | AUD | Currency code of the order. |
| amount | int | 100 | Order amount in the base unit of the currency of order. Refers to section 1.2.e.g. if currency = AUD, then 100 means A$1.00 |
| notify\_url | String |  | Notification URL for transaction success. When this order is pay succeed, will send a notification to such URL. Refers to section 2.6.  |
| out\_order\_no | String |  | Out order number. The notification data of transaction would include this field. So, it best be unique, in order to identify the order. |
| platform | String | WECHATPAY | payment platform of this order. |
| language | String | EN | Not mandatory, defaults ***CHS.*** |
| o\_number | String | 01 | Not mandatory, number of transaction organization. |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS |
| order\_no | String |  | Omipay order number, 32 characters length.  |
| Qrcode | String |  | String for QRCode.  |
| Pay\_url | String |  | The url of common payment page. When order is created, may redirect to this url to show the payment QRCode.\* Access this page is also needs signing, the sign algorithm is same to other methods. |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | System error. | Description of error |

* Error Code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |

* Request example:

<https://www.omipay.com.au/omipay/api/v2/MakeQRCode>? M\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&order\_name=Test\_Order&amount=100&notify\_url=http://your\_site.com/receive\_notify.html&out\_order\_no=SEORD000001

* Addition comments:

The flow of QRCode payment:

1. Merchant create order in Web or PC Online-Store;
2. Call Omipay MakeQRCodeOrder API;
3. Generate QRCode with the *qrcode* string of API returns, and then show it to customer in application interface;

OR: Redirect to pay\_url and show the QRCode.

1. Customer scan this QRCode with WeChat/Alipay APP on mobile phone.
2. Customer finish the payment.
3. Omipay send transaction notification data to merchant.
* Success returns example:

{

 “return\_code”: “SUCCESS”,

 “order\_no”: “bc112874260946a2af2b7107825e6ce2”,

 “qrcode” : “………………. “

}

* Fail returns example:

{

 “return\_code”: “FAIL”,

 “error\_code”: “SIGN\_TIMEOUOT”,

 “error\_msg”: “Sign timeout.”

}

* Description of payment page:
1. When API returns, may lead the browser redirect to the *pay\_url* address. Which page shows the information of order and the payment QRCode. Customer scans this QRCode with Alipay/Wechatpay app in mobile phone to finish the transaction. When payment is done, browser would redirect to the *redirect\_url* address which in the call parameter.
2. For accessing the *pay\_url*, the following parameters are required.

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| m\_number | String |  |  |
| timestamp | String | 1482812036067 | Time stamp, refer to Timestamp in *Parameter Rules* |
| noncestring | String |  | Random string, refer to Nonce string in Parameter Rules |
| sign | String |  | Sign string |
| redirect\_url | String |  | Browser will redirect to such url when payment done. |

1. Make JSAPI Order
* Description:

JSAPI order suits for the scenes below:

1. WeChat web browser based payment. Merchant could call this API to get a URL for payment, and then lead customer to access this URL to pay.
2. Common pay QRCode for transaction. Merchant could use the pay\_url generate a QRCode, and show it to customer. Customer could scan this code with either Wechat or Alipay client app on mobile phone to pay.
* API address:

<https://www.omipay.com.au/omipay/api/v2/MakeJSAPIOrder>

<https://www.omipay.com.cn/omipay/api/v2/MakeJSAPIOrder>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| order\_name | String | TEST\_ORDER | The simple order information. |
| Currency | String | AUD | Currency code of the order. |
| Amount | int | 100 | Order amount in the base unit of the currency of order. Refers to section 1.2.e.g. if currency = AUD, then 100 means A$1.00 |
| notify\_url | String |  | Notification URL for transaction success. When this order is pay succeed, will send a notification to such URL. Refers to section 2.6.  |
| redirect\_url | String |  | Redirecting URL for transaction success. When this order is pay succeed, web browser will auto redirect to such URL. |
| Out\_order\_no | String |  | Out order number. The notification data of transaction would include this field. So, it best be unique, in order to identify the order. |
| Language | String | EN | Not mandatory, defaults ***CHS.*** |
| direct\_pay | Int | 1 | Not mandatory, if this parameter transferred, the order will be paid directly when the pay\_url is open. |
| Show\_pc\_pay\_url | Int | 1 | Not mandatory, if this parameter transferred, API response object would include a parameter that shows a PC payment page URL . You can redirect to this URL and show the order OQCode to customer.See ***Description of payment page*** section to get more details. |
| o\_number | String | 01 | Not mandatory, number of transaction organization. |
| pos\_no | String |  | Not mandatory, POS device number. |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS |
| order\_no | String |  | Omipay order number, 32 characters length.  |
| pay\_url | String |  | URL for payment. Merchant should lead user to access this URL.  |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | System error | Description of error |

* Error Code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |
| WECHAT\_STORE\_NOT\_EXISTS | This merchant don’t have the WESTORE type organization. |

* Request example:

<https://www.omipay.com.cn/omipay/api/v2/MakeJSAPIOrder>? m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&order\_name=TEST\_ORDER&redirect\_url=http://your\_site.com/redirect\_to.html&amount=100&notify\_url=http://your\_site.com/receive\_notify.html&out\_order\_no=SEORD000001&language=EN

* Success returns example:

{

 "return\_code": "SUCCESS",

 "order\_no": "bc112874260946a2af2b7107825e6ce2",

 "pay\_url" : "………………. "

}

* Fail returns example:

{

 "return\_code": "FAIL",

 "error\_code": "SIGN\_TIMEOUOT",

 "error\_msg": "Sign timeout."

}

* Additional:

JSAPI order request should includes redirect\_url parameter. And when customer finished the payment, mobile browser would redirect to such URL.

* Description of payment page:
1. If the request parameter includes the parameter ***show\_pc\_pay\_url*,** and its value is 1 (show\_pc\_pay\_url = 1), then the API response data would contain a property as ***pc\_pay\_url,*** which is the pay ur l for PC browser. Merchant may lead the PC browser redirect to such address, which page show the information of order an the payment QRCode. Customer scans this QRCode with Alipay/Wechatpay app in mobile phone to finish the transaction. When payment is done, browser would redirect to the *redirect\_url* address which in the call parameter.
2. The PC payment page is like:



1. For accessing the ***pc\_pay\_url***, the following parameters are required.

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| m\_number | String |  |  |
| timestamp | String | 1482812036067 | Time stamp, refer to Timestamp in *Parameter Rules* |
| noncestring | String |  | Random string, refer to Nonce string in Parameter Rules |
| sign | String |  | Sign string |
| redirect\_url | String |  | Browser will redirect to such url when payment done. |

1. Make Scan Order
* Description:

Scan order is suits the scene of local payment. Customer shows the Payment code in WeChat Wallet/Alipay client, merchant scans the code by POS device, AND then call API to create order.

* API address：

<https://www.omipay.com.au/omipay/api/v2/MakeScanOrder>

<https://www.omipay.com.cn/omipay/api/v2/MakeScanOrder>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| order\_name | String | TEST\_ORDER | The simple order information. |
| currency | String | AUD | Currency code of the order. |
| amount | int | 100 | Order amount in the base unit of the currency of order. Refers to section 1.2.e.g. if currency = AUD, then 100 means A$1.00 |
| notify\_url | String |  | Notification URL for transaction success. When this order is pay succeed, will send a notification to such URL. Refers to section 2.6. |
| qrcode | String |  | Customer’s payment QRCode.  |
| pos\_no | String |  | POS Device number. |
| out\_order\_no | String |  | Out order number. The notification data of transaction would include this field. So, it best be unique, in order to identify the order. |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS：Pay succeed  |
| order\_no | String |  | Omipay order number, 32 characters length. |
| out\_order\_no | String |  | Out order number. |
| order\_time | String |  | Order pay time, in format of yyyyMMddHHmmss |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | Server error | Description of error |
| order\_no | String |  | If error\_code = “USERPAYING”, then returns this field. Refers to Addition comments. |

* Error Code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |
| ORDER\_PAID | This order is already paid. |
| POS\_NOT\_REGISTERED | POS device is not registered. |
| NOT\_ENOUGH | Not enough fee balance in user’s WeChat Wallet.  |
| CARD\_NOT\_SUPPORT | User’s card type is not supported by WeChat Pay.  |
| ORDER\_CLOSED | Order is already closed.  |
| QRCODE\_EXPIRED | QRCode is expired.  |
| QRCODE\_ERROR | QRCode error. |
| AMOUNT\_INVALID | Amount is invalid. When amount exceeds the up limit of payment platform, or exceeds the min amount of payment platform, this error occurs. |

* Request example:

<https://www.omipay.com.au/omipay/api/v2/MakeScanOrder>? m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&order\_name=Test\_Order&amount=100&&notify\_url=http://your\_site.com/receive\_notify.html&qrcode=123abc123&pos\_no=posno\_123&out\_order\_no=SEORD000001&language=EN

* Addition comments：

The flow of Scan payment:

1. Merchant create the order in POS System, and show the amount of such order to customer;
2. Customer show the Payment QRCode of WeChat Wallet;
3. Merchant scan the QRCode with POS Device, and call *MakeScanOrder* API to create payment order.
4. Omipay server solves the request, meanwhile, merchant waits for the result of order.
5. If Omipay returns the *SUCCESS* code, the flow finish; else if return\_code is FAIL and *error\_code* is not *USERPAYING*, the flow fails; else into step 6);
6. The *return\_code* is *USERPAYING* means customer had to input payment password. （Whether to input the password depends on the security policy of WeChat Payment/Alipay）If customer had to input password, merchant should to hold this order and waiting for the response from Omipay server. When customer finished the payment, Omipay would call *notify\_url* and send the payment information. Merchant could also call *QueryOrder* API to get the status of payment transaction.
7. Make Online Order (Alipay Online)
* Description:

Online order is suits the scene of pc(web eg. Chrome/IE)/mobile(wap eg. Safari) browser payment.

* API address：

<https://www.omipay.com.au/omipay/api/v2/MakeOnlineOrder>

<https://www.omipay.com.cn/omipay/api/v2/MakeOnlineOrder>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| order\_name | String | TEST\_ORDER | The simple order information. |
| currency | String | AUD | Currency code of the order. |
| amount | int | 100 | Order amount in the base unit of the currency of order. Refers to section 1.2.e.g. if currency = AUD, then 100 means A$1.00 |
| out\_order\_no | String |  | Out order number. The notification data of transaction would include this field. So, it best be unique, in order to identify the order. |
| notify\_url | String |  | Notification URL for transaction success. When this order is pay succeed, will send a notification to such URL. Refers to section 2.6. |
| return\_url | String |  | Not mandatory, when transaction finished, browser will redirect to this URL synchronized. |
| type | String | web/wap | PC browser: webmobile browser: wap |
| o\_number | String | 01 | Not mandatory, number of transaction organization. |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS：Pay succeed  |
| order\_no | String |  | Omipay order number, 32 characters length. |
| pay\_url | String |  | URL for payment. Merchant should lead user to access this URL.  |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | Server error | Description of error |

* Error Code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |
| ORDER\_PAID | This order is already paid. |
| ORDER\_CLOSED | Order is already closed.  |
| AMOUNT\_INVALID | Amount is invalid. When amount exceeds the up limit of payment platform, or exceeds the min amount of payment platform, this error occurs. |

1. Make APP Order (Alipay Online)
* Description:

App order is suits the scene of iOS/Android App payment.

* API address：

<https://www.omipay.com.au/omipay/api/v2/MakeAppOrder>

<https://www.omipay.com.cn/omipay/api/v2/MakeAppOrder>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| order\_name | String | TEST\_ORDER | The simple order information. |
| currency | String | AUD | Currency code of the order. |
| amount | int | 100 | Order amount in the base unit of the currency of order. Refers to section 1.2.e.g. if currency = AUD, then 100 means A$1.00 |
| notify\_url | String |  | Notification URL for transaction success. When this order is pay succeed, will send a notification to such URL. Refers to section 2.6. |
| out\_order\_no | String |  | Out order number. The notification data of transaction would include this field. So, it best be unique, in order to identify the order. |
| platform | String | ALIPAYONLINE | payment platform of this order.（currently supports Alipay Online only） |
| o\_number | String | 01 | Not mandatory, number of transaction organization. |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS：Pay succeed  |
| order\_no | String |  | Omipay order number, 32 characters length. |
| order\_string | String |  | Payment string for Alipay APP calling. |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | Server error | Description of error |

* Error Code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |
| ORDER\_PAID | This order is already paid. |
| ORDER\_CLOSED | Order is already closed.  |
| AMOUNT\_INVALID | Amount is invalid. When amount exceeds the up limit of payment platform, or exceeds the min amount of payment platform, this error occurs. |

1. Query Order Status
* Description:

Merchant could call this API to get the status of order.

* API address:

<https://www.omipay.com.au/omipay/api/v2/QueryOrder>

<https://www.omipay.com.cn/omipay/api/v2/QueryOrder>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| order\_no | String |  | Omipay Order number  |
| language | String | EN |  |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS  |
| result\_code | String | PAID | order status |
| out\_order\_no | String |  | The out order no value which is sent by merchant when calls pay api.  |
| currency | String | AUD | order currency code, which is defined in ISO 4217 standard.Currently, it always be AUD. |
| amount | int | 100 | amount in order currency type.(AUD) |
| order\_time | String |  | Order create time, in format of *yyyyMMddHHmmss* |
| pay\_time | String |  | Order pay time, in format of *yyyyMMddHHmmss*;If order is not payed, the field value is empty string.  |
| exchange\_rate | int |  | Exchange rete of order currency type(AUD) to CNY; 10^8 times of real exchange rate value. |
| pay\_currency | String | CNY | The currency no which customer actually pay. |
| cny\_amount | int |  | amount in *pay\_currency*. |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | system error | Description of error |

* Error code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |
| PERMISSION\_ERROR | Permission error, Occurs when the order number is not belongs to current merchant. |

* Request example:

<https://www.omipay.com.au/omipay/api/v2/QueryOrder>? m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&order\_no=bc112874260946a2af2b7107825e6ce2&language=EN

* Success returns example:

{

 "return\_code": "SUCCESS",

 "result\_code": "PAYED",

 "currency": "AUD",

 "total\_amount": 100,

 "order\_time": "20161227105530",

 "pay\_time": "20161227105602",

 "exchange\_rate": 650000000,

 "cny\_amount": 650

}

* Fail returns example:

{

 "return\_code": "FAIL",

 "error\_code": "SIGN\_TIMEOUOT",

 "error\_msg": "Sign timeout."

}

* Order status list:

|  |  |
| --- | --- |
| Status | Description |
| READY | Order is created, but not payed. |
| PAYING | Customer is now paying.  |
| PAID | Customer is already payed. |
| SETTLED | Order is settled. (Settled by Omipay) |
| CANCELLED | Order is cancelled. |
| FAILED | Customer pay failed. |

1. Payment Success Notification
* Description:

If the order is created with *notify\_url* parameter, Omipay will send a request to this URL when payment success. This request would retries in 3 times unless received correct response.

* Request Rules:

|  |  |
| --- | --- |
| Text Encoding | UTF8 |
| Http Header | Content-Type=application/json |
| Data Sending Format | Data is transferred in request body, in JSON format. |
| Returns Data Type | application/json |

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| return\_code | String | SUCCESS | return SUCCESS when pay succeed. |
| nonce\_str | String |  | Random nonce string. |
| timestamp | Long |  | Time stamp |
| sign | String |  | Signature string. |
| order\_no | String |  | Omipay order no. |
| out\_order\_no | String |  | Out order no. |
| currency | String | AUD | order currency code, which is defined in ISO 4217 standard.Currently, it always be AUD. |
| amount | int | 100 | amount in order currency type.(AUD) |
| order\_time | String |  | Order create time, in format of *yyyyMMddHHmmss* |
| pay\_time | String |  | Order pay time, in format of *yyyyMMddHHmmss*;If order is not payed, the field value is empty string.  |
| exchange\_rate | int |  | Exchange rete of order currency type(AUD) to CNY; 10^8 times of real exchange rate value. |
| pay\_currency | String | CNY | The currency no which customer actually pay. |
| cny\_amount | int |  | amount in *pay\_currency*. |

Notice: Merchant has to verify the sign information when receives the notification to prevent of the third-party attack.

* Merchant returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | Must be SUCCESS. |

1. Refund
* Description:

Merchant could call this method to refund.

* API address:

<https://www.omipay.com.au/omipay/api/v2/Refund>

<https://www.omipay.com.cn/omipay/api/v2/Refund>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| order\_no | String |  | Omipay Order number which is going to be refunded. |
| out\_refund\_no | String |  | Out refund no. |
| amount | Int |  | Refund amount in order currency. |
| language | String | EN |  |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS |
| refund\_no | String |  | Omipay refund bill No. |
| currency | String | AUD | Currency No of refund. |
| amount | int | 100 | Refund amount |
| refund\_time | String |  | Refund time |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | Server error | Description of error |

* Error code list:

|  |  |
| --- | --- |
| Error Code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |
| PERMISSION\_ERROR | Permission error, Occurs when the order number is not belongs to current merchant. |
| ORDER\_NO\_ERROR | Order No error, Occurs when the order No is wrong. |
| ORDER\_NOT\_PAID | Order is not paid. |
| AMOUNT\_OVER\_LIMIT | Refund amount is exceeds the limit. |

* Request example:

<https://www.omipay.com.au/omipay/api/v2/Refund>? m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&order\_no=bc112874260946a2af2b7107825e6ce2&out\_refund\_no=xxxxxxx&amount=100&language=EN

* Success returns:

{

 "return\_code": "SUCCESS",

 "refund\_no ": "ADDFGHJKL",

 "currency": "AUD",

 "amount": 100,

 "refund\_time": "20161227105530"

}

* Fail returns:

{

 "return\_code": "FAIL",

 "error\_code": "SIGN\_TIMEOUOT",

 "error\_msg": "Sign timeout."

}

* Additional comments：
1. Refund is based on transaction, each refund bill has hooked with a specific transaction.
2. An order could be refunded multiple times. The total amount of such refunds shouldn’t be more than order amount.
3. The api returns SUCCESS just means refund request is sent to payment platform, and the platform is accepted the request, it doesn’t means the refund flow finished.
4. Query Refund
* Description：

Merchant should call this api to get the status of specific refund.

* API address：

<https://www.omipay.com.au/omipay/api/v2/QueryRefund>

<https://www.omipay.com.cn/omipay/api/v2/QueryRefund>

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| refund\_no | String |  | Refund no of Omipay. |
| language | String | EN |  |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| return\_code | String | SUCCESS | SUCCESS |
| result\_code | String | CLOSED | status of refund. |
| out\_refund\_no | String |  | Out order No. |
| currency | String | AUD | Currency No of refund |
| amount | int | 100 | amount in order currency type. |
| refund\_time | String |  | Refund create date. In formats of yyyyMMddHHmmss |
| success\_time | String |  | Actually refund time. In formats of yyyyMMddHHmmss; If refund status is not CLOSED, then returns empty string. |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | Server error | Description of error |

Error code list:

|  |  |
| --- | --- |
| Error code | Description |
| PARAMETER\_INVALID | Invalid parameters. |
| SIGN\_TIMEOUT | Time stamp expires. |
| MERCHANTNO\_INVALID | Merchant number is invalid. |
| SIGN\_ERROR | Signature check failed.  |
| SYSTEM\_ERROR | System unhandled error. |
| PERMISSION\_ERROR | Permission error, Occurs when the order number is not belongs to current merchant. |
| REFUND\_NO\_ERROR | Refund No is not correct. |

* Request example:

https://www.omipay.com.au/omipay/api/v2/QueryRefund? m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&refund\_no=bc112874260946a2af2b7107825e6ce2&language=EN

* Success returns:

{

 "return\_code": "SUCCESS",

 "result\_code": "CLOSED",

 "currency": "AUD",

 "amount": 100,

 "refund\_time": "20161227105530",

 "success\_time": "20161227105602"

}

* Fail returns:

{

 "return\_code": "FAIL",

 "error\_code": "SIGN\_TIMEOUOT",

 "error\_msg": "Sign time out"

}

* Refund status list:

|  |  |
| --- | --- |
| Status | Description |
| Applied | Customer is applied the refund request. |
| MerchantConfirmed | Merchant accepted the refund request, and submitted to payment platform. |
| OrganizationConfirmed | Payment platform is confirmed refund. |
| OrganizationPayback | Payment platform is already refunded. |
| Closed | Refund flow is finished, flow closed. |
| MerchantRejected | Merchant rejected the refund request. |
| TimeoutClosed | The refund request is over the time limit for refunding of this order. |
| OrganizationFailed | Payment platform operation failed. |
| CustomerCancelled | Customer cancelled refund request. |

1. WeChat Client Login
* Description:

Omipay provided the WeChat login API, to help the merchant develops the auto login function.

* API address:

https://www.omipay.com.cn/omipay/api/auth/GetUserInfo

* Parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| redirect\_uri | String |  | Redirect URL of acquired user information;This URL should under URL of WESTORE type organization of this merchant.  |

* Success returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| openid | String |  | OpenID of current user. |
| nickname | String |  | User’s nickname. |
| headimgurl | String |  | User’s head image URL. |

* Fail returns:

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Example | Description |
| return\_code | String | FAIL | FAIL |
| error\_code | String | SYSTEM\_ERROR | Code of error |
| error\_msg | String | Server Error | Description of error |

* Request example:

<https://www.omipay.com.au/omipay/api/v1/GetUserInfo>? m\_number=123456&timestamp=1482812036067&nonce\_str=313644f42ecd4758b5e23b80e86efdc4&sign=8516A3B52F9C8897F52239B19CD8A499&redirect\_uri=http://yoursite.com/redirect.html