# In-Store API

Date: 19/01/2018

[To Check out HTML Version Online](#)

If you want to get QR code `picture` (e.g. for EFTPOS) rather than QR code `text` from Latipay API, please refer to [In-Store API - QR code Picture](https://doc.latipay.net/v2/in-store-qr-code-picture.html). And this document is only suitable for the following `in-store` situation.

- The customer scans `Alipay payment QR code` through `Alipay app`.
- or the customer scans `Wechat payment QR code` through `Wechat app`.
- or the customer scans QR code to load a webpage inside of `Alipay app's browser` and pays through `Alipay app`.
- or the customer scans QR code (with iPhone Camera app) to load a webpage on `mobile browser` and pays through `Alipay app`.

How it works?

Latipay's web page presenting QR code
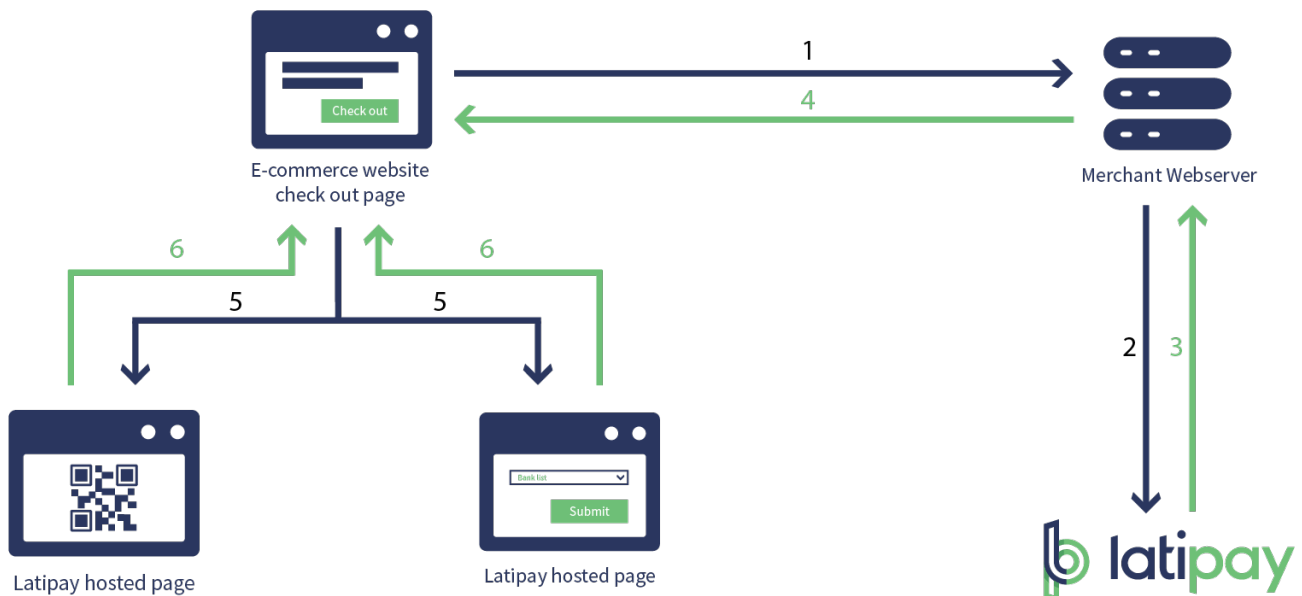
1. To process a transaction, customers select `alipay`, or `wechat` as an **in-store** payment method in website, e.g. in E-commerce website.

2. The **merchant**'s E-commerce server sends a transaction request #Transaction Interface to **Latipay** with the authentication and order details.

3. **Latipay** responds with a `host_url` and `nonce`.

4. The **merchant**'s server redirect the website to the host_url with nonce as parameter.#Payment Interface

5. The customer will be prompted to a page which requires to `scan the QR code` with Alipay or Wechat app and complete the payment.

6. The result of payment is displayed in **merchant**'s website or **merchant's** terminal/device in-store.

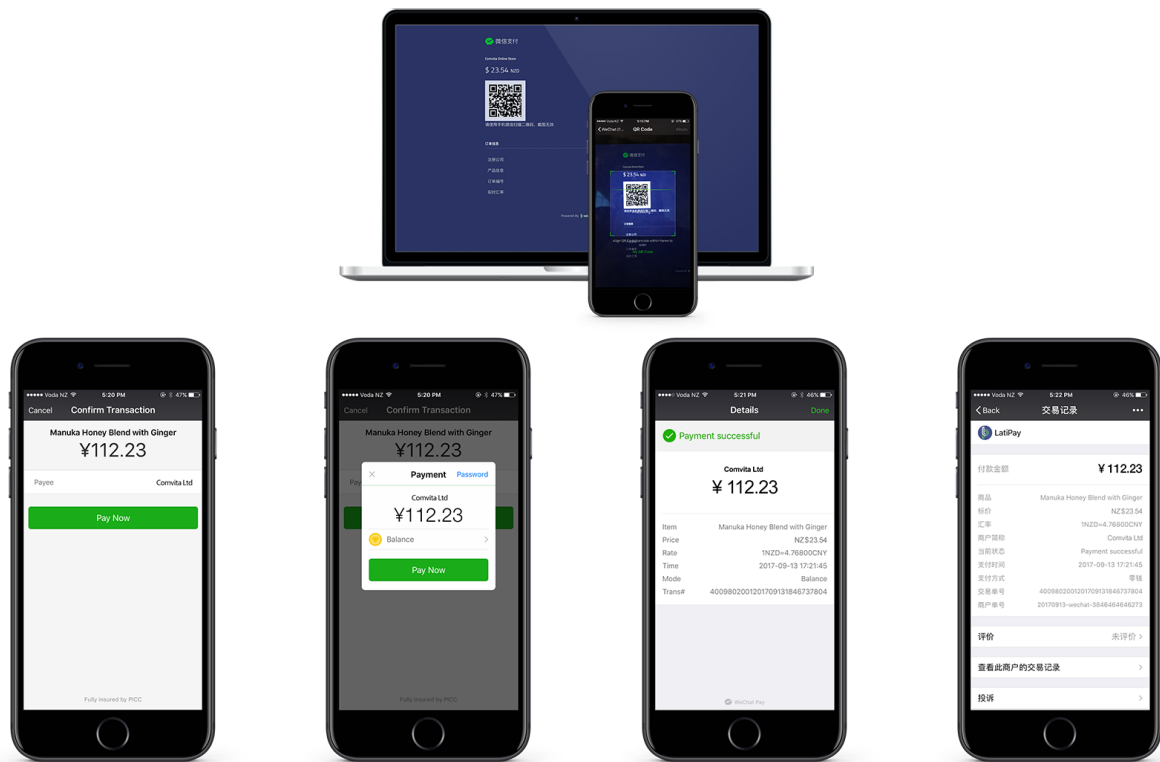## Merchant digital platform presenting QR code

Merchant server loads `host_url` with `nonce` as parameter and gets the QR code text. Then **Merchant** `generates QR Code picture from the text` and display it in web page or other digital platform. The customer scans the QR code with Alipay or Wechat app and complete the payment.

Payment Scenarios

Alipay
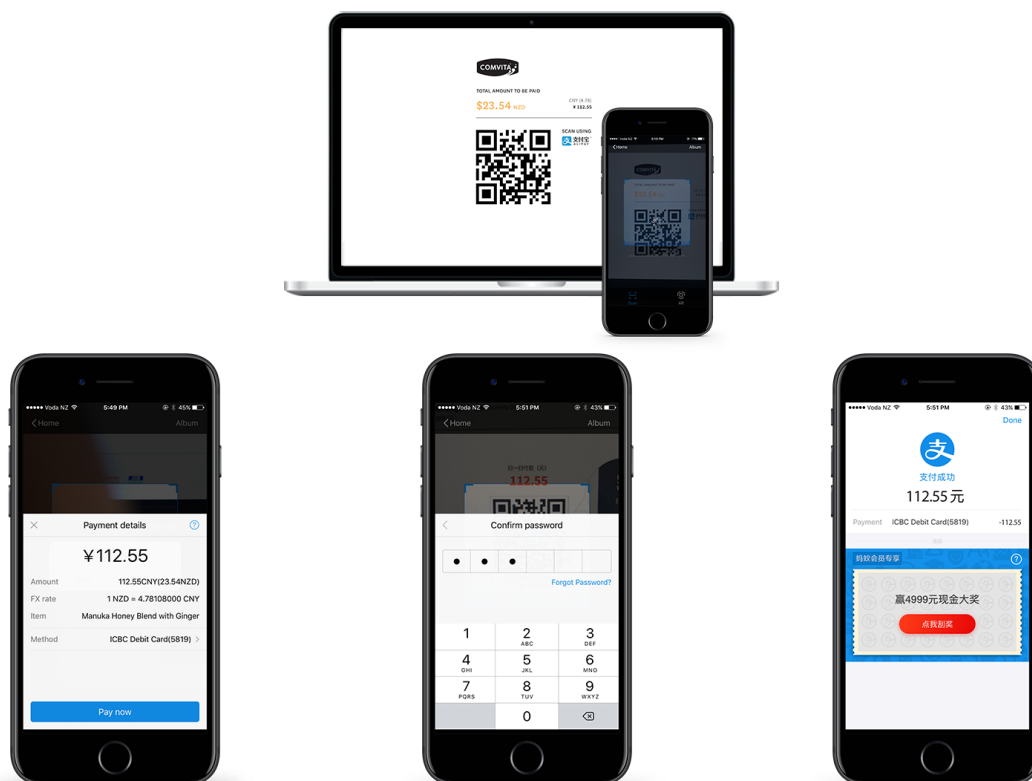
WeChat Pay

API List

Preparation

Before using the following API, please make sure you have `user_id`, `wallet_id` and `api_key` on hand. If you don't have them, we would like to help you. [Contact Us](#).

Transaction Interface

Create a latipay transaction is the first step for using alipay or wechat pay.

```
POST https://api.latipay.net/v2/transaction
```

Parameters

Name	Type	Description	Nullable
user_id	String	The user account you want to use to process the transaction.	No
wallet_id	String	The ID of the wallet you want to use.	No
payment_method	String	Payment method options are `wechat` and `alipay`.	No
amount	String	A decimal amount.	No
return_url	String	The URL of the landing page where Latipay will return the customer after payment, but it doesn't work in `in-store` situation.	No
callback_url	String	The URL of the callback address the transaction notification is sent after payment.	No
signature	String	The `SHA-256 HMAC` API signature.	No
merchant_reference	String	A field for identifying your transaction.	No
ip	String	The IP address of the customer.	No
version	String	The latest version of the platform. must be `'2.0'`	No
product_name	String	The name of the product or service being sold.	No

Example Parameters

```
{
  "user_id": "U000334333",
  "wallet_id": "W00000001",
  "amount": "120.00",
  "payment_method": "alipay",
  "return_url": "https://merchantsite.com/checkout",
  "callback_url": "https://merchantsite.com/confirm",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
  "merchant_reference": "dsi39ej430sks03",
  "ip": "122.122.122.1",
  "version": "2.0",
  "product_name": "Pinot Noir, Otago"
}
```

SHA-256 HMAC Signature

```
message: user_id + wallet_id + amount + payment_method + return_url + callback_url
secret: api_key
```

Example Signature [Try your signature online](#)

```
message: U000000001W000000010.01alipayhttp://merchant.com/returnhttp://merchant.com/callback
secret: 111222333
signature: 2367bcd9e9a2f9a547c85d7545d1217702a574b8084bbb7ae33b45a03a89983
```

Response

```
{
  "host_url": "https://pay.latipay.net/pay",
  "nonce": "7d5a88119354301ad3fc250404493bd27abf4467283a061d1ed11860a46e1bf3",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
}
```

Name	Type	Description
host_url	String	The url for request a QR code picture. The nonce should be appended to the end.
nonce	String	The transaction nonce must be appended to the `host_url`.
signature	String	The `SHA-256 HMAC` API signature.

Signature in Response

For security reasons, we highly recommend you verify the **signature**.

```
message: nonce + host_url
secret: api_key
```

Extra Parameters for alipay and wechat

When load the url `{host_url}/{nonce}` in next step [#Payment Interface](#), you will get different result depend on the environment and extra parameter. Please check out the response of [#Payment-Interface](#)
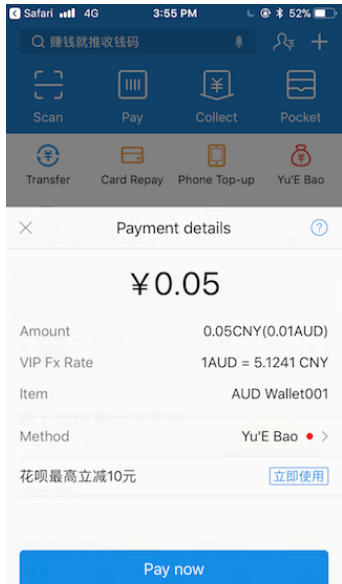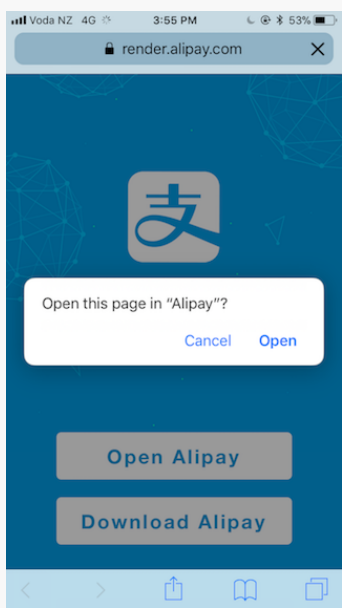
Payment Interface

To load the following url in PC browser, mobile browser or Alipay/Wechat's inner browser.

```
{host_url}/{nonce}
```

Example

```
https://pay.latipay.net/pay/7d5a88119354301ad3fc250404493bd27abf4467283a061d1ed118
60a46e1bf3
```

Response, based on Environment and Extra Parameters

Environment	Payment Method	Extra Parameters for #Transaction Interface	Response	Customer makes payment
Alipay inner browser	alipay	is_staticpay="1"	Alipay app pay directly	
Mobile browser	alipay	is_staticpay="1"	Mobile browser try to launch Alipay app	

PC browser/Mobile browser	alipay	present_qr="1" is_spotpay="1"	a Latipay webpage which presents QR code which waiting for Alipay app to scan	
Any	alipay	is_spotpay="1"	a json contains `qr_code` text	Merchant backend or frontend needs to generate QR code and display it to customer in digital platform
Non Wechat App	wechat	present_qr="1"	a Latipay webpage which presents QR code which waiting for Wechat app to scan	
Non-Wechat App	wechat		a json contains `code_url` text	Merchant backend or frontend needs to generate QR code and display it to customer in digital platform

Alipay QR code text

```
{
  "qr_code": "https://qr.alipay.com/bax081077lt4kxtaupg00082"
}
```

Wechat QR code text

```
{
  "code_url":"weixin://wxpay/bizpayurl?pr=12121312"
}
```

Payment Result Asynchronous Notification

This is payment result notification sent from Latipay to merchant after the payment is done successfully. There is a re-try mechanism with the notification to ensure the notification could be delivered to the merchant. If you receive callback notification, please send `"sent"` to us. Callback notification can be sent many times until we receive "sent".

```
POST merchant's callback_url
Content-Type: application/json
```

Parameters

Name	Type	Description
transaction_id	String	A unique transaction identifier generated by Latipay.
merchant_reference	String	A field for identifying your transaction.
currency	String	The currency code of the transaction.
amount	String	A decimal amount.
payment_method	String	The payment method used. Possible values are `wechat` and `alipay`.
status	String	The status of the transaction. Possible values are: pending, paid, or failed.
pay_time	String	Show the payment time of the transaction order. `UTC/GMT+08:00`
signature	String	The `SHA-256 HMAC` API signature.

Example Parameters

```
{
  "transaction_id": "43cb917ff8a6",
  "merchant_reference": "dsi39ej430sks03",
  "amount": "120.00",
  "currency": "NZD",
  "payment_method": "alipay",
  "pay_time": "2017-07-07 10:53:50",
  "status" : "paid",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
}
```

SHA-256 HMAC Signature

Merchant backend need to validate the **signature** for protecting against malicious requests.

```
message: merchant_reference + payment_method + status + currency + amount
secret: api_key
```

Example Signature [Try your signature online](#)

```
message: dsi39ej430sks03alipaypaidNZD120.00
secret: 111222333
signature: 840151e0dc39496e22b410b83058b4ddd633b786936c505ae978fae029a1e0f1
```

Expected text "sent" in Response's body

```
sent
```

Synchronous Redirection

There is a sync and front-end payment result redirection sent by Latipay to merchant after the payment is done successfully.

```
Redirect merchant's return_url
```

Name	Type	Description
merchant_reference	String	A field for identifying your transaction.
payment_method	String	The payment method used. Possible values are wechat, alipay.
status	String	The status of the transaction. Possible values are: pending, paid, or failed.
currency	String	The currency code of the transaction.
amount	String	A decimal amount.
signature	String	`The SHA-256 HMAC` API signature.

Example

```
https://www.merchant.com/latipay?merchant_reference=dsi39ej430sks03&payment_method
=alipay&status=paid&currency=NZD&amount=100.00&signature= 14d5b06a2a5a2ec509a14827
7ed4cbeb3c43301b239f080a3467ff0aba4070e3
```

SHA-256 HMAC Signature

Merchant frontend need to validate the signature for protecting against malicious requests.

```
message: merchant_reference + payment_method + status + currency + amount
secret: api_key
```

Example Signature [Try your signature online](#)

```
message: dsi39ej430sks03alipaypaidNZD120.00
secret: 111222333
signature: 840151e0dc39496e22b410b83058b4ddd633b786936c505ae978fae029a1e0f1
```

Payment Result Interface

All customers can send request to search their transaction order by merchant order id(that should be unique id for the merchant) as merchant_reference by HTTP GET request.

```
GET https://api.latipay.net/v2/transaction/{merchant_reference}
```

Parameters

Name	Type	Description
user_id	String	The user account you want to use to process the transaction.
signature	String	The `SHA-256 HMAC` API signature.

SHA-256 HMAC Signature

```
message: merchant_reference + user_id
secret: api_key
```

Response

Name	Type	Description
transaction_id	String	A unique transaction identifier generated by Latipay.
merchant_reference	String	A field for identifying your transaction.
currency	String	The currency code of the transaction.
amount	String	A decimal amount.
payment_method	String	The payment method used. Possible values are `wechat` and `alipay`.
status	String	The status of the transaction. Possible values are: pending, paid, or failed.
pay_time	String	Show the payment time of the transaction order. `UTC/GMT+08:00`
signature	String	The `SHA-256 HMAC` API signature.

Example

```
{
  "transaction_id": "20170707-wechat-3473511594933",
  "merchant_reference": "dsi39ej430sks03",
  "currency": "AUD",
  "amount": "120.00",
  "payment_method": "wechat",
  "status": "paid",
  "pay_time": "2017-07-07 10:53:50",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
}
```

Signature in Response

For security reasons, we highly recommend you verify the **signature**.

```
message: merchant_reference + payment_method + status + currency + amount
secret: api_key
```

Example Signature [Try your signature online](#)

```
message: dsi39ej430sks03alipaypaidNZD120.00
secret: 111222333
signature: 840151e0dc39496e22b410b83058b4ddd633b786936c505ae978fae029a1e0f1
```