



# Sandbox Handbook

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V1.1

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## Revision history

Version	Description	Date
1.0	Initial version	2017/2/21
1.1	Update outgoing Ip address	2017/6/14

## About this document

This document describes how to use the Alipay sandbox environment. It also contains step-by-step instructions on how to test the Alipay In-store Payment feature in the sandbox environment.

### Target audience

Developers who want to test the Alipay payment features integrated with their applications before using them in the production environment.

# Alipay sandbox gateway

Use the Alipay sandbox gateway for testing. The URL of the sandbox gateway is:  
**<https://openapi.alipaydev.com/gateway.do?>**

## Alipay sandbox test accounts

There are two types of test account: merchant test account and buyer test account.

### Merchant test accounts

Find the merchant test account information in the Alipay sandbox portal under **Sandbox Accounts > Merchant**. More than one test accounts are provided, and the accounts are sorted by payment feature. Find the correct one to use according to the payment feature you want to test. For example, to test the **Alipay Auto Debit** feature, use the account information provided under **Alipay Auto Debit**.

#### Note:

- **Login password:** Use this password to log in login to the Alipay for Business website in the sandbox environment.
- **Signature key:** Only MD5 signature is supported in the sandbox environment. RSA signature is not supported at this time. For more information about the MD5 signature, see: [https://global-pre.site.alipay.net/service/website\\_split/24](https://global-pre.site.alipay.net/service/website_split/24).

### Buyer test account

Use the buyer test account to login to the Alipay sandbox app.

The buyer test account information can be found in the Alipay sandbox portal under **Sandbox Accounts > Buyer**.

#### Note:

- **Account balance:** You can click **Top Up** to top up the buyer test account.

## Download the Alipay sandbox app

**Note:** The Alipay sandbox app supports only Android at this time.

- 1) In the Alipay sandbox portal, click **Alipay Sandbox App** from the menu on the left.
- 2) Take one of the following steps:
  - Scan the QR code displayed on the page with a QR code reader on your Android device. This will download and install the sandbox app to your device.
  - Click the download link to download the sandbox app to your computer.

To log in to the Alipay sandbox app, use the buyer test account and login password that are provided in the portal under **Sandbox Accounts > Buyer**.

# Test Alipay In-store Payment

The following sections describe how to test these Alipay In-store Payment features in the sandbox environment:

- Collect payments by customer payment code
- Collect payments by merchant QR code
- Collect payments by transaction code

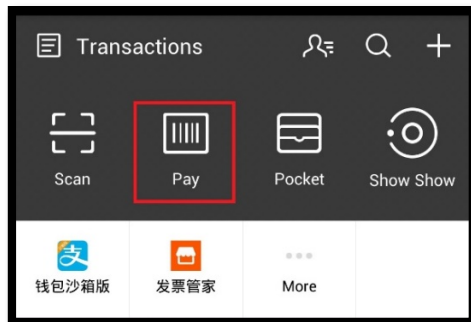
## Test collecting payments by customer payment code

- 1) Call the **alipay.acquire.overseas.spot.pay** API to send a payment request. For more information about the API, refer to this [API document](#). To find the value of the "buyer\_identity\_code" parameter:

- a) Login to the Alipay sandbox app by using the buyer test account.

**Note:** For more information about the Alipay sandbox app, see Download the Alipay sandbox app.

- b) On the homepage, click **Pay**.



- c) On the payment code page, right under the barcode, you will see an 18-digit code.



Use this 18-digit code as the value of the "buyer\_identity\_code" parameter.

Payment amount	trans_amount	<input type="text" value="20"/>
Buyer Identity Code	buyer_identity_code	<input type="text" value="285583517655558381"/>
Type of Buyer Identity Code	identity_code_type	<input type="text" value="barcode"/>

- 2) Review the `<result_code>` tag in the returned response. If the payment is successful, the value within this tag should be `SUCCESS`.

**Example:** `<result_code>SUCCESS</result_code>`

```
<?xml version="1.0" encoding="UTF-8"?>
<alipay>
  <is_success>T</is_success>
  <request>
    <param name="client_info">{"client_ip":"10.20.30.40"}</param>
    <param name="trans_create_time">2014010291129</param>
    <param name="identity_code_type">barcode</param>
    <param name="memo">Shopping</param>
    <param name="alipay_seller">[REDACTED]</param>
    <param name="sign_type">MD5</param>
    <param name="trans_amount">20</param>
    <param name="trans_name">sandbox-lc</param>
    <param name="notify_url">http://www.alipay.com</param>
    <param name="partner_trans_id">6629738259537374</param>
    <param name="[REDACTED]">[REDACTED]</param>
    <param name="[REDACTED]">[REDACTED]</param>
    <param name="sendFormat">normal</param>
    <param name="currency">USD</param>
    <param name="[REDACTED]">[REDACTED]</param>
    <param name="[REDACTED]">[REDACTED]</param>
    <param name="input_charset">UTF-8</param>
    <param name="extend_info">{"merchant_name":"反作弊测试","merchant_no":"test01"}</param>
    <param name="biz_product">OVERSEAS_MBARCODE_PAY</param>
    <param name="service">alipay.acquire.overseas.spot.pay</param>
    <param name="format_type">xml</param>
    <param name="partner">2088101181776059</param>
    <param name="quantity">1</param>
  </request>
  <response>
    <alipay>
      <alipay_buyer_login_id>dou*alitest.*</alipay_buyer_login_id>
      <alipay_buyer_user_id>2088102140176848</alipay_buyer_user_id>
      <alipay_pay_time>20170111160928</alipay_pay_time>
      <alipay_trans_id>2017011121001004840200295232</alipay_trans_id>
      <currency>USD</currency>
      <exchange_rate>6.47310000</exchange_rate>
      <partner_trans_id>6629738259537374</partner_trans_id>
      <result_code>SUCCESS</result_code>
      <trans_amount>20</trans_amount>
      <trans_amount_cny>129.46</trans_amount_cny>
    </alipay>
  </response>
  <sign>3f4c58f09b160e7a31156486a249fc67</sign>
  <sign_type>MD5</sign_type>
</alipay>
```

To learn more about the returned response, refer to [the Return parameter in the API document](#).

## Test collecting payments by using merchant QR code

- 1) Call the **alipay.commerce.qrcode.create** API to send a payment request. For more information about the API, refer to this [API document](#).
- 2) In the returned response, find the URL within the `<qrcode>` tag. Here is an example:  
`<qrcode>https://qr.alipay.com/XXXXXX</qrcode>`

```
<alipay>
  <is_success>T</is_success>
  <request>
    <param name="sign">4aa816101db5777653f3259bba601f8a</param>
    <param name="input_charset">UTF-8</param>
    <param name="biz_type">OVERSEASHOPQRCODE</param>
    <param name="biz_data">
      {"secondary_merchant_industry":"5812","secondary_merchant_id":"xxx0125","secondary_merchant_name":"台北夜市","store_id":"0125","store_name":"夜市门店","trans_currency":"USD","currency":"USD"}
    </param>
    <param name="sign_type">MD5</param>
    <param name="service">alipay.commerce.qrcode.create</param>
    <param name="partner">2088101181776059</param>
    <param name="sendFormat">normal</param>
  </request>
  <response>
    <qrcodeinfo>
      <qrcode>https://qr.alipay.com/ocx0502909zi8lida5kwey06</qrcode>
      <qrcode_img_url>
        http://mobilecodex.daily.alipay.net/show.htm?code=ocx0502909zi8lida5kwey06
      </qrcode_img_url>
    </qrcodeinfo>
  </response>
  <sign>02c3f8bcfb7dda146455bc1b92badff4</sign>
  <sign_type">MD5</sign_type>
</alipay>
```

- 3) Use an online QR code generator to create the merchant QR code based on the URL you found in the previous step.  
Here is a sample online QR code generator: <http://tool.oschina.net/qr>. Refer to the screenshot below for how to use it:

URL或其他文本:

输出格式:  
GIF


纠错级别:  
L 7%

类型:  
自动

边缘留白:  
0

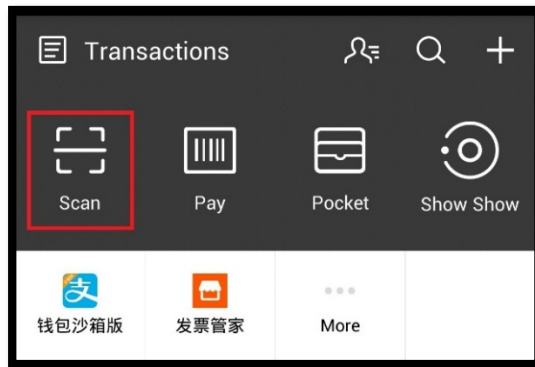
原图大小:  
4

生成QR码  
click

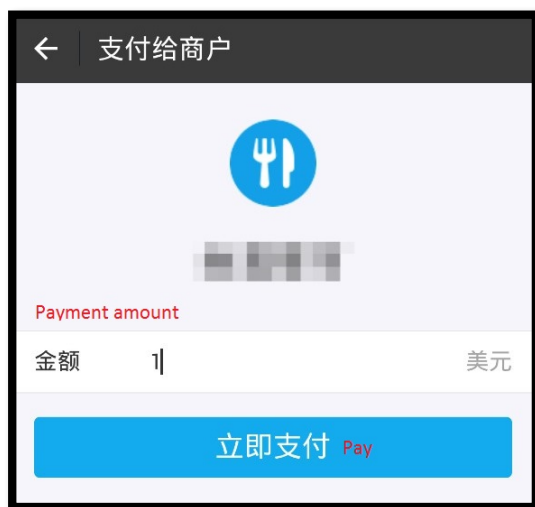
QR码:  


- 4) Login to the Alipay sandbox app by using the buyer test account.  
**Note:** For more information about the Alipay sandbox app, see Download the Alipay sandbox app.
- 5) On the homepage, click **Scan** to open the QR code reader.

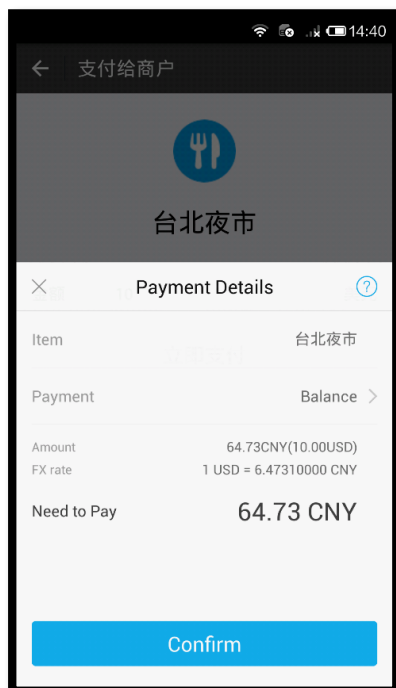




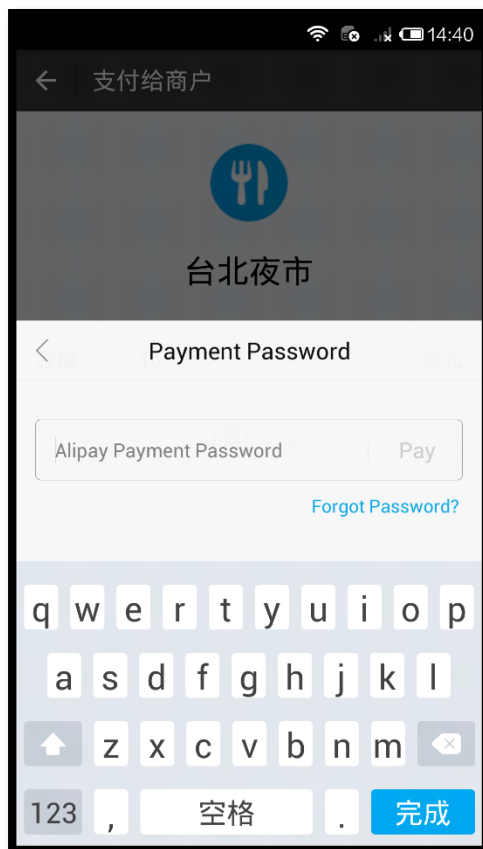
- 6) Scan the merchant QR code with the QR code reader.
- 7) Enter the payment amount, and then click **Pay**.



- 8) Check the payment details and then click **Confirm**.



- 9) Enter the payment password to complete the payment.



If the payment is successful, you will see a payment successful page like this:



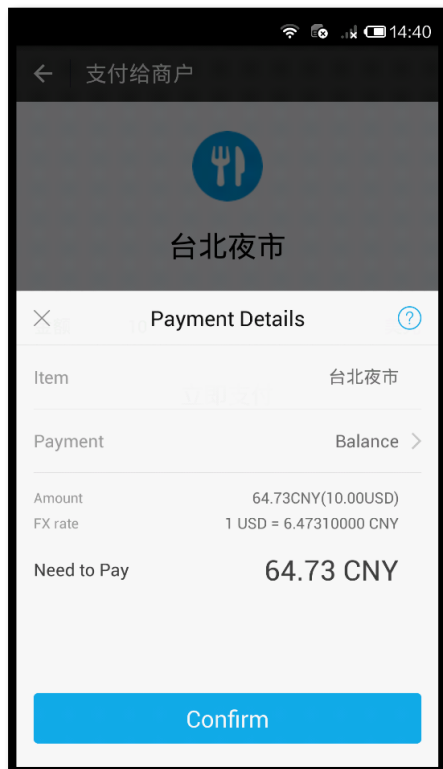
## Test collecting payments by using transaction code

- 1) Call the **alipay.acquire.pcreate** API to send a payment request. For more information about the API, refer to this [API document](#). For the **product\_code** parameter, use this value: **OVERSEAS\_MBARCODE\_PAY**.
- 2) In the returned response, find the URL within the `<qrcode>` tag. Here is an example:  
`<qrcode>https://qr.alipay.com/XXXXXX</qrcode>`

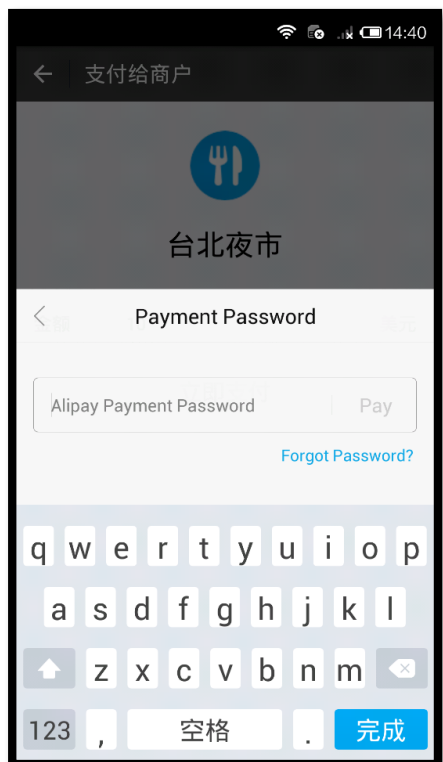


```
<?xml version='1.0' encoding='UTF-8'>
<response>
  <alipay>
    <big_pic_url>
      http://mobilecode.rz00b.alipay.net/show.htm?code=bax09531dwf0oefh4km100c6&picSize=L
    </big_pic_url>
    <out_trade_no>4405471269006465</out_trade_no>
    <pic_url>
      http://mobilecode.rz00b.alipay.net/show.htm?code=bax09531dwf0oefh4km100c6&picSize=M
    </pic_url>
    <qr_code>https://qr.alipay.com/bax09531dwf0oefh4km100c6</qr_code>
    <result_code>SUCCESS</result_code>
    <small_pic_url>
      http://mobilecode.rz00b.alipay.net/show.htm?code=bax09531dwf0oefh4km100c6&picSize=S
    </small_pic_url>
    <voucher_type>qrcode</voucher_type>
  </alipay>
</response>
<sign>e3e09c81e1c14e86183a92100007a907</sign>
<sign_type>MD5</sign_type>
</alipay>
```

- 3) Use an online QR code generator to create the transaction code (QR code) based on the URL you found in the previous step.  
**Attention:** The transaction code is valid for only 2 minutes after it has been created.  
Here is a sample online QR code generator: <http://tool.oschina.net/qr>. Refer to the screenshot [here](#) for how to use it.
- 4) Log in to the Alipay sandbox app by using the buyer test account.  
**Note:** For more information about the Alipay sandbox app, see Download the Alipay sandbox app.
- 5) On the home page, click **Scan** to open the QR code reader.
- 6) Scan the transaction code (QR code) with the QR code reader.  
**Attention:** The transaction code is valid for 2 minutes only after it has been created.
- 7) Check the payment details and then click **Confirm**.



- 8) Enter the payment password to complete the payment.



If the payment is successful, you will see a payment successful page like this:



## Other information

Reconciliation files are not available in the sandbox environment at this time.

Outgoing IP address of the sandbox:

121.0.27.1/121.0.27.2/121.0.27.3/ 121.0.27.87/ 121.0.27.88/121.0.27.89/115.124.16.119