



International Credit Card Payment API Specification

Service Name :

`alipay.trade.direct.forcard.pay`

Version : 1.0

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1 Introduction

1.1 Overview

The function that Foreign Card Payment provides is, through Alipay channel, one international credit card account owner is able to remit directly to an Alipay account owner. The currency of both buyer and seller is CNY.

1.2 Reader

This document is meant for web developer, maintenance staff and manager with substantial website development capability, who understands not only at least one of following programming language, ASP, PHP, JAVA and ASP.net, but also the SQL database language.

1.3 Glossary

Figure 1-1 Glossary of Terms

| Term | Description |
|------------------------------|---|
| CTU | Alipay risk inspection system |
| Return | The Website Synchronous Redirect Mode. Under this mode, after the buyer finish the payment, the Alipay website redirects back to the partner website and returns the result data to partner synchronously and automatically. |
| Notify | The Server Asynchronous Response Mode. Under this mode, after the trade status changes, the Alipay server posts the notification to the partner server asynchronously and initiatively. |
| Anti-phishing | “Phishing” utilize deceptive email and forged website for scams, victims usually end up reveal personal financial information, like credit card number, account name, password and social security number, etc. Cause damage. Anti-phishing is to prevent it happening. |
| Profit Sharing (Interchange) | Sharing Profit is to share a part of transaction funds with other accounts |
| Red Envelopes | Alipay Red Envelopes containing cash which can be used in some transaction. |

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| Term | Description |
|-----------------------------------|---|
| Cartoon | Alipay cartoon connects user account with bank cards, transfer funds without opening online banking, and enjoy Alipay "Examine Before Payment" grantee. |
| Request | The process of transmitting data using HTTP protocol. |
| International Credit Card | Worldwide credit card, which includes VISA, Mastercard and JCB etc. |
| International Credit Card Payment | No need to login Alipay, redirect to International Credit Card system to make the payment. Partner decides to select which kind of card. |

1.4 Technical Service

When developing or using Alipay API, if any problem or question occurs, click this URL and fill out the form, submit it and Alipay Tech staff will contact you and solve the problem.

<https://b.alipay.com/support/helperApply.htm?action=supportHome>

- **Alipay API integration Forum:**

<http://club.alipay.com/thread.php?fid=703>

In this forum, you may download information, search for solution, or post for help.

- **Customer Hotline: 0571-88158090**

2 Function Demo

Step 1: Access to the International Credit Card Receipt Platform and input the card information and the logistics information as Figure 2-1 shows.

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Hello, welcome to Alipay!

商品名称5318095350 Details

1.01 CNY

Pay with

1.01 CNY

To ensure successful payment, please fill out the same billing information as you have in your issuing bank.

Credit Card Information

* Card number

* Cardholder's Name

first name

last name

* Expiration date

Month

Year

* Security Code

Credit Card Billing Address

* Country/Region

Select Country/Region

* State / Province

Select State / Province

* City

* Address Line 1

Address Line 2 (optional)

* Post Code

Credit Card Cardholder Information

* Email

Phone number

Pay My Order

Figure 2-1 International Credit Card Charging Platform

Step 2: Click the button <Pay My Order> and then access to 3D checking module to verify the 3D verification code to accomplish the payment.

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Please submit your J/Secure password.

Merchant: ALIPAY (WWW.ALIPAY.COM)

Amount: CNY 1.01

Date: 2011/10/18

Card number: XXXX XXXX XXXX 3235

Personal Message: testcard-69-363A

Password:

[Forgot your password?](#)


Date shown above is according to GMT, and may be different from your local time.

Figure 2-2 Charging Platform

Step 3: Complete the payment. Check the following figure.



Hello, welcome to Alipay!

**You've paid 2.00 CNY to** XXXXXXXXXXXX
This transaction will appear on your bill as "ALIPAY".

| | |
|---------------------|--------------------|
| Name: | test20111018235808 |
| Transaction ID: | 2011101800568941 |
| Transaction amount: | 2.00 CNY |
| Date: | Oct 18, 2011 |
| Time: | 23:58:41 |

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Figure 2-3 Alipay shows Payment Success

Step 4: Redirect back to partner website

Return_url parameter is passed to Alipay, which has been involved in the request during request construction. When request is processed, Alipay will go to a

payment success page and soon redirect back to partner website included in return_url.

3 Interaction Mode

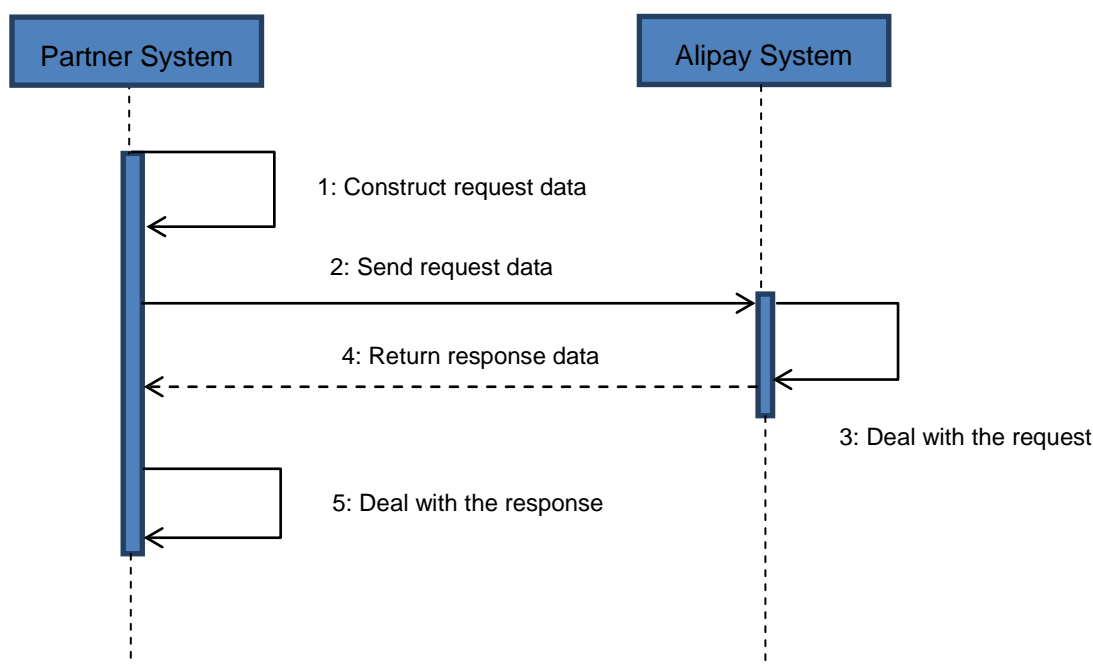


Figure 3-1 Request/Response Interaction Mode

(1) Construct Request Data

Partner, based on Alipay API specification, generate a data set and the signature through programming.

(2) Send Request Data

Send data set to Alipay system through the way of page re-direction or posting form.

(3) Alipay deal with the request

When receiving the data set, Alipay perform a set of security validation before dealing with these data.

(4) Return response data

Alipay will response the processed data to partner in the following two manners:

- The program reconstructs the URL link automatically, then the buyer current page redirects automatically and synchronously to the partner

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pre-set URL address with response data(Parameter name: return_url, if partner does not set it, this operation will be ignored.).

- Alipay server posts the notification to the partner server asynchronously and initiatively (Parameter name: notify_url, if partner does not set it, this operation will be ignored.)

(5) Partner deal with the response

After partner receive the response data from return page (the parameter return_url identified) or notify page (the parameter notify_url identified), its own business logic (i.e. acquire token, order update) can be continued.

4 Request Parameters Description

4.1 Definition

Request parameters are sent to Alipay for data transmission, which can help Alipay to carryout data processing.

4.2 List of Parameters

Figure 4-1 Request Parameters Description

| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|-------------------------|----------------|-------------------|--|----------|---------------------------------|
| Basic Parameters | | | | | |
| service | API Name | String | API name | N | alipay.trade.direct.forcard.pay |
| partner | Partner ID | String(16) | A unique partner ID to identify a contracted Alipay Account. A 16 digit number starts with 2088 | N | 2088101011913539 |
| _input_charset | Encode Charset | String | The charset on partner website like utf-8、gbk、gb2312 etc. | N | gbk |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|----------------------------|--------------------|-------------------|---|----------|---|
| sign_type | Sign Type | String | DSA, RSA or MD5, capital letter | N | MD5 |
| sign | Sign | String | Refer to Chapter 8 "Signature Algorithm" | N | 7d314d22efb a4f336fb1876 97793b9d2 |
| notify_url | Notify URL | String(190) | The URL for receiving Asynchronous Notification from Alipay server. | Y | http://api.test. alipay.net/atin terface/receiv e_return.htm |
| return_url | Return URL | String(200) | The URL the partner set, which the Alipay page redirects to after the trade, it provides the result data synchronously. | Y | http://api.test. alipay.net/atin terface/receiv e_return.htm |
| anti_phishing_key | Anti-Phishing Key | string | Use time inquiry API to acquire encrypted Alipay timestamp If partner activated anti phishing IP checking, this parameter must be set. | Y | 587FE3D285 8E6B01E301 04656E7805 E2 |
| exter_invoke_ip | External Invoke IP | String(15) | User IP when the trade is created. If partner activated anti phishing IP checking, this parameter must be set, for verification. | Y | 128.214.222. 111 |
| Business Parameters | | | | | |
| out_trade_no | Out Trade Number | String(64) | A unique number to identify a transaction in partner system | N | 68431922806 47118 |
| subject | Subject | String(256) | Goods name/trade name/order name/order key words etc. | N | Apple |
| defaultbank | Default Bank | String | Bank Code, please refer to Chapter 11.5 "List of Banks". | N | boc-visa |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|-----------------|------------------|-------------------|--|----------|---|
| extend_param | Extend Parameter | string | <p>To send specific business information. It is valid only if partner pre-set the meaning of this parameter with Alipay.</p> <p>Parameter format: parameter name1^value 1 parameter name 2^value2</p> <p>Segregated by “ ”</p> <p>Please refer to Chapter 11.6 “Extend Parameters”</p> <p> Notice: Case insensitive.</p> | Y | <p>CUSTOMER_ID^420621197800000000</p> <p> CUSTOMER_FIRST_NAME^张</p> <p> CUSTOMER_LAST_NAME^三</p> <p> CUSTOMER_EMAIL^12345@163.com </p> <p>CUSTOMER_PHONE^05711234567 TRAVELDATA_COMPLETE_ROUTE^上海-杭州</p> <p> TRAVELDATA_DEPARTURE_DATE^20110907</p> |
| seller_logon_id | Seller Account | String(100) | <p>Partner Alipay Account</p> <p>Partner Information Priority: seller_id> seller_logon_id</p> <p>At least one of seller_id and seller_logon_id must be set.</p> | Y | alipay-test01@alipay.com |
| seller_id | Seller ID | String(16) | <p>A unique partner ID to identify a contracted Alipay Account.</p> <p>A 16 digit number starts with 2088</p> | Y | 2088002007018966 |
| price | Price | Number | <p>Unit: RMB Yuan. Value Range [0.01, 100000000.00], accurate to two decimal places.</p> <p>Rule: total_fee can be replaced by both price and quantity.</p> <p>Both price and quantity should be null when total_fee is set and vice versa.</p> | Y | 10.00 |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|--------------|----------------|-------------------|--|----------|---|
| total_fee | Total Fee | Number | <p>Total Amount of the transaction, Unit: RMB Yuan. Value Range [0.01, 100000000.00], accurate to two decimal places.</p> <ul style="list-style-type: none"> If the parameter currency is CNY or currency is null, the currency of total_fee is RMB, and the unit is RMB-Yuan. Otherwise, the amount is for foreign currency and this parameter must be set. | Y | 100 |
| quantity | Quantity | Number | <p>total_fee can be replaced by both price and quantity. Both price and quantity should be null when total_fee is set and vice versa.</p> | Y | 1 |
| body | Body | String(1000) | Detail description about a transaction, if there are multiple items involved, accumulate together into body. | Y | Gundam MKII, Miniature Bracelet |
| show_url | Show URL | String(400) | The hyperlink for goods show on the cashier page. | Y | http://www.360buy.com/product/113714.html |
| royalty_type | Royalty Type | String(2) | <p>Now only one type:10 (royalty from seller to third party)</p> <p>Royalty type must be set after setting royalty_parameters.</p> | Y | 10 |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|--------------------|---------------------------|-------------------|--|----------|---|
| royalty_parameters | Royalty Parameters | String | <p>Type 1: Recipient email 1^Amount 1^Description 1 Recipient email 2^Amount 2^Description2 Or Payer email^Recipient email 1^Amount 1^Description 1 Payer email^Recipient email 2^Amount 2^Description2</p> <p>Type 2: Recipient email 1^Amount 1^Description 1 Payer email 1^Recipient email 2^Amount 2^Description2 Payer email 2^Recipient email 3^Amount 3^Description3</p> <p>Type 3: Recipient email 1^Amount 1^Description 1 Payer email 1^Recipient email 2^Amount 2^Description2 Recipient email 3^Amount 3^Description3</p> <p>Maxim 10 parameters at a time and they are segregated by " ". Description contains no more than 1000 bytes.</p> <p>For the same level royalty: payer email must be the same as seller email.</p> <p>Rules: Recipient can pay for other recipients after he received money (the money recipient received must be more than or equal to it pays).</p> | Y | maomao1@yahoo.cn^1.00^yours maomao2@yahoo.cn^2.00^yours |
| extra_common_param | External Common Parameter | String(100) | If this parameter is sent during user requests, it should be sent back during response. | Y | Hello, this is a test |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|-----------|-----------------|-------------------|---|----------|---------|
| it_b_pay | Expiration Time | String(3) | <p>Set time limit for an unfinished transaction, if expired, the transaction will be closed automatically.</p> <p>Value Range: 1m~15d</p> <p>m: minute, h: hour, d: day, 1c: current day (no matter when the transaction is created, will be closed on 24:00 that day)</p> <p>The value should be an integer. For instance, 1.5h is not valid, should be replaced by 90m.</p> <p>Please contact technical support if you want to set expiration time.</p> | Y | 1h |
| currency | Currency | String | <p>Currency.</p> <ul style="list-style-type: none"> If total_fee is not null and the value of this parameter currency is not CNY, the transaction is foreign currency transaction. If the value is CNY, the transaction is RMB transaction. <p>Now, if the value of the parameter default_bank is boc-visa or boc-master, the currency must be USD.</p> <p>If the value of default_bank is boc-jcb, the currency must be CNY or null (default CNY).</p> | Y | USD |

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Note:

This API receive https request only;

Parameter body, subject, extra_common_param cannot contain special characters like #, %, &, +, sensitive words, can not use some foreign language which AliWangWang does not support (Korean, Thai, Arabic and etc.)

Please sign each request according to Chapter 9 "Signature Algorithms", only signed request will be processed by Alipay.com;

This API can be used repeatedly, as long as basic information (Partner, User, Transaction Amount) is consistent, and transaction isn't finished.

4.3 Example

https://mapi.alipay.com/gateway.do?body=%E5%A4%96%E5%8D%A1%E6%94%B6%E5%8D%95%E7%94%A8%E6%88%B7%E8%AF%B4%E6%98%8E%E4%B9%A6&subject=%E5%A4%96%E5%8D%A1%E7%BA%AF%E7%BD%91%E5%85%B3%E5%95%86%E5%93%81&default_bank=boc-visa&sign_type=MD5¬ify_url=http%3A%2F%2Fapi.test.alipay.net%2Fatinterface%2Freceive_notify.htm&out_trade_no=7247403357177973&return_url=http%3A%2F%2Fapi.test.alipay.net%2Fatinterface%2Freceive_return.htm&sign=838e02b70b0b9f95af4ed580baf7852c&input_charset=UTF-8&total_fee=100&service=alipay.trade.direct.forcard.pay&partner=2088102115004977&seller_logon_id=yuebin%40alitest.com



Notice:

This Example is for your reference only, Alipay gateway is <https://mapi.alipay.com/gateway.do>

5 Synchronous Response Parameters

Description

5.1 Definition

After Alipay finish processing request data, it will notify partner website by posting response data by the way of redirection. The response data of such procedure are these response parameters.

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5.2 List of Parameters

Figure 5-1 Synchronous Response Parameters Description

| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|----------------------------|------------------|-------------------|--|----------|----------------------------------|
| Basic Parameters | | | | | |
| is_success | Success mark | String(1) | Indicate whether the API has been called successfully, it does not indicate the result of business | N | T |
| sign_type | Sign Type | String | DSA, RSA or MD5, capital letter | N | MD5 |
| sign | Sign | String | Refer to Chapter 8 "Signature Algorithm" | N | 7d314d22efba4f336fb187697793b9d2 |
| Business Parameters | | | | | |
| out_trade_no | Out Trade Number | String(64) | A unique number to identify a transaction in partner system. | Y | 6843192280647118 |
| subject | Subject | String(256) | Subject's title, trade name, order title, order key name. This parameter has a maximum length of 128 character | Y | Glove |
| payment_type | Payment Type | String(4) | Default value is 1. | Y | 1 |
| extface | Extface | String | Indicate which API returned this link | Y | alipay.trade.direct.forcard.pay |
| trade_no | Trade Number | String(64) | The unique trade number in Alipay system. Length from 16 to 64. | Y | 2008102303210710 |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|--------------|----------------|-------------------|--|----------|---|
| trade_status | Trade Status | String | <p>The status of this transaction.</p> <p>Successful status must be one of following two:</p> <ul style="list-style-type: none"> TRADE_FINISHED (for General Instant Payment) TRADE_SUCCESS (for Advanced Instant Payment) | Y | TRADE_SUCCESS |
| notify_id | Notify ID | String | Alipay Notify ID, partner may use this ID to verify the request is valid or not. | Y | RqPnCoPT3K9%2Fwvwh3I%2BODmZS9o4qChHwPWbaS7UMBjPUnBJlg42y9A8gQlzU6m3fOhG |
| notify_time | Notify Time | Date | <p>Notify Time (Alipay showed time)</p> <p>Format: yyyy-MM-dd HH:mm:ss。</p> | Y | 2008-10-23 13:17:39 |
| notify_type | Notify Type | String | Notify Type | Y | trade_status_sync |
| seller_email | Seller Email | String(100) | <p>Partner Alipay Account</p> <p>Partner Information Priority: seller_id>seller_account_name>seller_email.</p> <p>At least one of seller_id, seller_account_name and seller_email must be set.</p> | Y | alipay-test01@alipay.com |
| buyer_email | Buyer Email | String(100) | <p>Buyer Alipay Account</p> <p>Buyer Information Priority: buyer_id>buyer_account_name>buyer_email.</p> | Y | tstable01@alipay.com |
| seller_id | Seller ID | String(16) | <p>A unique partner ID to identify a contracted Alipay Account.</p> <p>A 16 digit number starts with 2088</p> | Y | 2088002007018966 |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|--------------------|---------------------------|-------------------|---|----------|--|
| buyer_id | Buyer ID | String(16) | A unique buyer ID to identify a contracted Alipay Account. A 16 digit number starts with 2088 | Y | 2088002007018955 |
| total_fee | Total Fee | Number | Total Amount of the transaction, Unit: RMB Yuan. Value Range [0.01, 100000000.00], accurate to two decimal places. | Y | 100 |
| body | Body | String(1000) | Detail description about a transaction, if there are multiple items involved, accumulate together into body. | Y | Gundam MKII, Miniature Bracelet |
| extra_common_param | External Common Parameter | String(100) | If this parameter is sent during user requests, it should be sent back during response. | Y | Hello, this is a test |
| bank_seq_no | Bank Sequence Number | String(64) | Bank Sequence Number Only for the partner who contract the Bank Payment API and Pseudo Bank Payment API. | Y | <ul style="list-style-type: none"> CMB : 9220031730 CCB : 20100329000000859967 |
| currency | Currency | String | Currency. <ul style="list-style-type: none"> If total_fee is not null and the value of this parameter currency is not CNY, the transaction is foreign currency transaction. If the value is CNY, the transaction is RMB transaction. | Y | USD |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|-----------------|---|-------------------|--|----------|---------|
| forex_total_fee | Total Fee of Foreign Currency Transaction | String | <ul style="list-style-type: none">If the transaction is foreign currency transaction, the value is same as total_fee in request parameters.If the transaction is RMB transaction, this parameter should not be set. | Y | 200 |

5.3 Example

http://www.xxx.com/alipay/return_url.php?is_success=T&sign=b1af584504b8e845ebe40b8e0e733729&sign_type=MD5&body=Hello&buyer_email=xinjie_xi%40163.com&buyer_id=2088101000082594&extface=create_direct_pay_by_user&out_trade_no=6402757654153618&payment_type=1&seller_email=chao.chen1%40alipay.com&seller_id=2088002007018916&subject=%E5%A4%96%E9%83%A8FP&total_fee=10.00&trade_no=2008102303210710&trade_status=TRADE_FINISHED¬ify_id=RqPnCoPT3K9%252Fvwbh3l%252BODmZS9o4qChHwPWbaS7UMBJpUnBJlg42y9A8gQlzU6m3fOhG¬ify_time=2008-10-23+13%3A17%3A39¬ify_type=trade_status_sync&extra_common_param=%E4%BD%A0%E5%A5%BD%EF%BC%8C%E8%BF%99%E6%98%AF%E6%B5%8B%E8%AF%95%E5%95%86%E6%88%B7%E7%9A%84%E5%B9%BF%E5%91%8A%E3%80%82&bank_seq_no=%E6%8B%9B%E8%A1%8C%E7%9A%84%E8%AE%A2%E5%8D%95%E5%8F%B7%E5%BD%A2%E5%A6%829220031730%3B%0D%0A%E5%BB%BA%E8%A1%8C%E7%9A%84%E5%BD%A2%E5%A6%8220100329000000859967

Notice:

This Example is for your referene only, Alipay gateway is <https://mapi.alipay.com/gateway.do>

6 Asynchronous Response Parameters

Description

6.1 Definition

When Alipay finish processing partner's requests, it will notify partner system initiatively by server with this data set. This set of data is the Asynchronous Response Parameters.

6.2 List of Parameters

Figure 6-1 Asynchronous Response Parameters Description

| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|----------------------------|------------------|-------------------|--|----------|---|
| Basic Parameters | | | | | |
| notify_time | Notify Time | Date | Notify Time (Alipay showed time) Format: yyyy-MM-dd HH:mm:ss. | Y | 2008-10-23 13:17:39 |
| notify_type | Notify Type | String | Notify Type | Y | trade_status_sync |
| notify_id | Notify ID | String | Alipay Notify ID, partner may use this ID to verify the request is valid or not. | Y | RqPnCoPT3K9%2Fvwbh3l%2BODmZS9o4qChHwPWbaS7UMBjpUnBJlg42y9A8gQlzU6m3fOhG |
| sign_type | Sign Type | String | DSA, RSA or MD5, capital letter | N | MD5 |
| sign | Sign | String | Refer to Chapter 8 "Signature Algorithm" | N | 7d314d22efba4f336fb187697793b9d2 |
| Business Parameters | | | | | |
| out_trade_no | Out Trade Number | String(64) | A unique number to identify a transaction in partner system | N | 6843192280647118 |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|--------------|----------------|-------------------|---|----------|---------------------|
| subject | Subject | String(256) | Subject's title, trade name, order title, order key name. This parameter has a maximum length of 128 character | Y | Glove |
| payment_type | Payment Type | String(4) | Value range refer to appendix "11.6 Payment Type" Default Value: 1 (purchase commodity) | N | 1 |
| trade_no | Trade Number | String(64) | The unique trade number in Alipay system. Length from 16 to 64. | Y | 2008102303210710 |
| trade_status | Trade Status | String | The status of this transaction. Successful status must be one of following two: <ul style="list-style-type: none"> TRADE_FINISHED (for General Instant Payment) TRADE_SUCCESS (for Advanced Instant Payment) | Y | TRADE_SUCCESS |
| gmt_create | GMT Create | Date | Time when transaction is created. Format: yyyy-MM-dd HH:mm:ss | Y | 2008-10-22 20:49:31 |
| gmt_payment | GMT Payment | Date | Time when transaction is paid by user. Format: yyyy-MM-dd HH:mm:ss | Y | 2008-10-22 20:49:50 |
| gmt_close | GMT Close | Date | Time when transaction is closed Format: yyyy-MM-dd HH:mm:ss | Y | 2008-10-22 20:49:46 |

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| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|---------------|----------------|-------------------|--|----------|--------------------------|
| refund_status | Refund Status | String | Value range refer to Chapter 11.3 "Refund Status" | Y | REFUND_SUCCESS |
| gmt_refund | GMT Refund | Date | Time when transaction is refunded Format: yyyy-MM-dd HH:mm:ss | Y | 2008-10-29 19:38:25 |
| seller_email | Seller Email | String(100) | Partner Alipay Account Partner Information Priority: seller_id>seller_account_name>seller_email. At least one of seller_id, seller_account_name and seller_email must be set. | Y | alipay-test01@alipay.com |
| buyer_email | Buyer Email | String(100) | Buyer Alipay Account Buyer Information Priority: buyer_id>buyer_account_name>buyer_email. | Y | tstable01@alipay.com |
| seller_id | Seller ID | String(16) | A unique partner ID to identify a contracted Alipay Account. A 16 digit number starts with 2088 | Y | 2088002007018966 |
| buyer_id | Buyer ID | String(16) | A unique buyer ID to identify a contracted Alipay Account. A 16 digit number starts with 2088 | Y | 2088002007018955 |
| price | Price | Number | Unit: RMB Yuan. Value Range [0.01, 100000000.00], accurate to two decimal places. Rule: total_fee can be replaced by both price and quantity. Both price and quantity should be null when total_fee is set and vice versa. | Y | 10.00 |

INTERNATIONAL CREDIT CARD PAYMENT API

SPECIFICATION



| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|---------------------|---------------------------|-------------------|--|----------|---|
| total_fee | Total Fee | Number | Total Amount of the transaction, Unit: RMB Yuan. Value Range [0.01, 100000000.00], accurate to two decimal places. | Y | 100 |
| quantity | Quantity | Number | total_fee can be replaced by both price and quantity. Both price and quantity should be null when total_fee is set and vice versa. | Y | 1 |
| body | Body | String(1000) | Detail description about a transaction, if there are multiple items involved, accumulate together into body. | Y | Gundam MKII, Miniature Bracelet |
| discount | Discount | Number | Alipay will add the value of the discount on the trade amount, this parameter is negative, if there is a discount | Y | -5 |
| is_total_fee_adjust | Is Total Fee Adjust | String(1) | Is total fee adjusted | Y | N |
| use_coupon | Use Coupon | String(1) | Whether coupon is used in transaction | Y | N |
| extra_common_param | External Common Parameter | String(100) | If this parameter is sent during user requests, it should be sent back during response. | Y | Hello, this is a test |
| bank_seq_no | Bank Sequence Number | String(64) | Bank Sequence Number Only for the partner who contract the Bank Payment API and Pseudo Bank Payment API. | Y | <ul style="list-style-type: none"> CMB : 9220031730 CCB : 2010032900000859967 |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|--------------------|-------------------------------|-------------------|---|----------|------------------------|
| out_channel_type | Payment Channels Info | String | The payment channels w.r.t this payment. Format: Channel 1 Channel 2 Each channel is segregated by " ". Please refer to Chapter 12.11 "Channel Types and Card Types" | Y | OPTIMIZED_MOTO BALANCE |
| out_channel_amount | Payment Channels Amounts Info | String | The amount of each payment channel. Format: Amount 1 Amount 2 Each amount is segregated by " ". | Y | 90.00 10.00 |
| error_code | Error Code | String(1024) | Error code of the errors checked from the item_orders_info parameters. Error codes are segregated by " ". Please refer to Chapter 11.1 "International Credit Card Payment Error Code" and Chapter 11.2 "System Error Code" | Y | ILLEGAL_SIGN |
| currency | Currency | String | Currency. <ul style="list-style-type: none"> If total_fee is not null and the value of this parameter currency is not CNY, the transaction is foreign currency transaction. If the value is CNY, the transaction is RMB transaction. | Y | USD |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Parameter | Parameter Name | Type(byte length) | Description | Optional | Example |
|-----------------|---|-------------------|---|----------|---------|
| forex_total_fee | Total Fee of Foreign Currency Transaction | String | <ul style="list-style-type: none"> If the transaction is foreign currency transaction, the value is same as total_fee in request parameters. If the transaction is RMB transaction, this parameter should not be set. | Y | 200 |

6.3 Example

http://www.xxx.com/alipay/notify_url.php?trade_no=2008102203208746&out_trade_no=3618810634349901&discount=-5&payment_type=1&subject=iphone%E6%89%8B%E6%9C%BA&body=Hello&price=10.00&quantity=1&total_fee=10.00&trade_status=TRADE_FINISHED&refund_status=REFUND_SUCCESS&seller_email=chao.chenc1%40alipay.com&seller_id=2088002007018916&buyer_id=2088002007013600&buyer_email=13758698870&gmt_create=2008-10-22+20%3A49%3A31&is_total_fee_adjust=N&gmt_payment=2008-10-22+20%3A49%3A50&gmt_close=2008-10-22+20%3A49%3A46&gmt_refund=2008-10-29+19%3A38%3A25&use_coupon=N¬ify_time=2009-08-12+11%3A08%3A32¬ify_type=%E4%BA%A4%E6%98%93%E7%8A%B6%E6%80%81%E5%90%8C%E6%AD%A5%E9%80%9A%E7%9F%A5%28trade_status_sync%29¬ify_id=70fec0c2730b27528665af4517c27b95&sign_type=DSA&sign=pwIhj0b_gd_aejia7n_ko4_m%252Fu_w_jd3_nx_s_k_mxus9_hoxg_y_r_lunli_pmma29_t_q%253D%253D&extra_common_param=%E4%BD%A0%E5%A5%BD%EF%BC%8C%E8%BF%99%E6%98%AF%E6%B5%8B%E8%AF%95%E5%95%86%E6%88%B7%E7%9A%84%E5%B9%BF%E5%91%8A%E3%80%82&bank_seq_no=%E6%8B%9B%E8%A1%8C%E7%9A%84%E8%AE%A2%E5%8D%95%E5%8F%B7%E5%BD%A2%E5%A6%829220031730%3B%0D%0A%E5%BB%BA%E8%A1%8C%E7%9A%84%E5%BD%A2%E5%A6%8220100329000000859967



Notice:

This Example is for your referene only, Alipay gateway is <https://mapi.alipay.com/gateway.do>

7 Processing Response Data

7.1 Features of Website Synchronous Redirect Mode

- (1) After successfully finish the payment, the buyer will see an Alipay trade-sucess page, this page will stay for a few seconds and automatically redirect to the page partner named. (return_url)
- (2) Parameters in this page can be acquired with GET method, like request.QueryString("out_trade_no")、\$_GET['out_trade_no'].
- (3) Redirection only occurs once right after the buyer finished the payment.
- (4) In this mode, Alipay will not invoke partner page initiatively, rather using redirecting function of programming to make the user page redirect to the partner page.
- (5) Not only on sever, this mode can also be tested on local computer.
- (6) Return URL has a time limit, it would expire after one minute, which will cause verification failure.
- (7) When partner is configuring return_url, it is wrong to add custom parameters. For example

Wrong: http://www.alipay.com/alipay/return_url.php?xx=11

Right: http://www.alipay.com/alipay/return_url.php

- (8) Due to Alipay will try to validate the return_url, so do not set it on local host.
For instance:

Wrong:

http://localhost/alipay/return_url.php

http://localhost:80/alipay/return_url.php

- Right:

http://www.xxx.comalipay/return_url.php

http://121.1.1.255alipay/return_url.php

7.2 Features of Sever Asynchronous Response Mode

- (1) Make sure the Notification Page (notify_url) is absolutely blank, without space, html tag, or any error message threw from the program system.
- (2) Parameters in this page can be acquired with GET method, like `request.Form("out_trade_no")`, `$_POST['out_trade_no']`.
- (3) This response will be used, if Alipay initiatively notify.
- (4) Alipay will notify when there is a real transaction in Alipay system and the status of that transaction has changed. (In Instant Payment service "Pending for payment" does not trigger notification).
- (5) Interaction between servers, unlike interaction between websites which is visible, is usually not displayable.
- (6) When the first time a transaction status is changed (in Instant Payment service is when transaction finished), not only page would redirect to partner website but also would Alipay notify partner system
- (7) After program is executed, the page must print "success" (without quote). If not, Alipay server would keep re-sending notification, until over 24 hour 22 minutes
Generally, there are 8 notifications within 25 hours (Frequency: 2m,10m,15m,1h,2h,6h,15h)
- (8) After program is executed, there would not be redirection operation on the page, for Alipay would not recognize a "success" string, so it would be regarded as an error, and Alipay system would keep sending notification.
- (9) cookies、 session would be invalid on this page, which means these data would not be captured.
- (10) The configuration and testing of this system must be on a server, via internet
- (11) The main effect of this mood is to present transaction lost, so even redirection failed, the order in partner system still update.
- (12) As long as the partner receives the sever asynchronous response and prints "success", the parameter notify_id would be invalid. It means when Alipay send same asynchronous notification (include the re-sending notifications because of no "success"), the parameter notify_id would not change.

7.3 Notification Trigger Condition

Figure 7-1 Notification Trigger Condition

| Trigger Condition | Description | Default Value |
|-------------------|----------------------|---------------|
| TRADE_FINISHED | Transaction Finished | true |
| TRADE_SUCCESS | Payment Success | true |
| WAIT_BUYER_PAY | Transaction Created | false |
| TRADE_CLOSED | Transaction Closed | false |



Note:

Partners may apply to Alipay for configuration to set in what circumstances to trigger a notification.

7.4 Partner Business Process Cautions

When Alipay complete a transaction, it will return back to, and notify partner website. Partner can acquire synchronous response data with GET method or asynchronous response data with POST method, and validate it with partner's business logic. Thus, partner need to determine whether the same operation has been done before. Otherwise, partner has to take the risk of the lost.

- (1) After the completion of a transaction, partner may call batch refund API, Alipay system will send a notification to partner, detail information please refer to Batch Refund API Specification
- (2) When a partner use refund service, system will sent a notification includes parameter refund_status and gmt_refund to partner

8 Signature Algorithms

8.1 Generate Pre-sign string

8.1.1 Parameters to sign

In the list of request parameters, all of them need to be signed except sign、sign_type . (in some case even sign_type also need to be signed)

In the list of response parameters, all of them need to be signed except sign、sign_type.

8.1.2 Generate Pre-sign string

For following data set:

```
string[] parameters={  
    "service=create_direct_pay_by_user",  
    "partner=2088101568338364",  
    "_input_charset=gbk",  
    "return_url= http://www.test.com/alipay/return_url.asp",  
    "out_trade_no=6741334835157966",  
    "subject=贝尔金护腕式",  
    "payment_type=1 ",  
    "seller_email=alipay-test01@alipay.com",  
    "total_fee=100"  
};
```

Rearrange parameters in the data set alphabetically

And connect rearranged parameters with &:

```
_input_charset=gbk&out_trade_no=6741334835157966&partner=2088101568338364  
&payment_type=1&return_url=http://www.test.com/alipay/return_url.asp&sell  
er_email=alipay-test01@alipay.com&service=create_direct_pay_by_user&subje  
ct=贝尔金护腕式&total_fee=100
```

This is the pre-sign string



Notice:

Notice:

- Parameters without a value, can be excluded from sign;
- Charset in sign must be consistent with the charset used previously
- If `_input_charset` is passed, it also shall be signed.
- According to HTTP protocol, special character like `&`, `@` needs to do URL encoding, therefore the request receiver can get correct value. In this situation, pre-sign string shall be the original value instead of encoded one. For example: calling a particular API need to sign the parameter email, the pre-sign string shall be `email=test@msn.com`, rather than `email=test%40msn.com`.

8.2 Signature Generation

8.2.1 MD5 Signature

Private Key is necessary for MD5 signature. The MD5 private key is the 32-byte string which is composed of English letters and numbers. Partner can log on the Merchant Service Center (<https://b.alipay.com>) to install the digital certificate and click "Trade Security Code" ("交易安全校验码") in the menu of "Technical Service" ("技术服务") to check the private key.

- Sign for request

After the partner receives the pre-sign string during requesting, the private key should be appended to the pre-sign string to generate the new string. Then this new string would be calculated with the MD5 signature algorithm by the MD5 signature function. Thus, the result 32-byte string is the signature result string. (the value is given to parameter "sign")

- Signature Verification for response

After receiving the pre-sign string during responding from Alipay system, the next step is the same as the procedure of Sign for request. When the 32-byte signature result string is generated, it

should be verified whether the value is equal to the value of the parameter “sign”. If equal, the verification would be passed.

8.2.2 DSA, RSA Signature

Both private key and public key are necessary for DSA or RSA signature. Both private key and public key are generated with OPENSSL by partner. Partner and Alipay need to exchange their own public key. Therefore, partner uses Alipay public key and partner private key.

- Sign for request

After the partner receives the pre-sign string during requesting, the partner private key and the pre-sign string are used in the RSA or DSA signature algorithm by the RSA or DSA signature function to get the result string. (the value is given to parameter “sign”)

- Signature Verification for response

After receiving the pre-sign string during responding from Alipay system, the Alipay public key, the pre-sign string and the parameter “sign” are used in the RSA or DSA signature asymmetric algorithm by the RSA or DSA signature function to accomplish the signature verification.

9 How to Verify Alipay Request

- **Purpose**

Validate a notification is from Alipay Server, ensure the authenticity of the response data.

- **Mechanism**

Acquire the parameter notify ID (notify_id), assemble it into a URL according to Alipay requirement, e.g.:

https://mapi.alipay.com/gateway.do?service=notify_verify&partner=2088002396712354¬ify_id=RqPnCoPT3K9%252Fvwbh3I%252BFioE227%252BPfNMI8jwyZqMliXQWxhOCmQ5MQO%252FWd93rvCB%252BaiGg

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



Through this request URL, partner can acquire result data from Alipay server with the method of programming to simulate the http request interacting with Alipay server.

If returned information is true, verification success, otherwise fail.

10 Suggestions and Improvements

If you have any suggestions or complaints, please click on the following URL and post them, we will try to improve this document w.r.t your feedback.

<http://club.alipay.com/read.php?tid=8684674&fid=703>

11 Appendix

11.1 International Credit Card Payment Error Code

Figure 11-1 International Credit Card Payment Error Code

| Error Code |
|---------------------------------|
| SELLER_NOT_IN_SPECIFIED_SELLERS |
| TRADE_SELLER_NOT_MATCH |
| TRADE_BUYER_NOT_MATCH |
| ILLEGAL_FEE_PARAM |
| SUBJECT_MUST_NOT_BE_NULL |
| TRADE_PRICE_NOT_MATCH |
| TRADE_QUANTITY_NOT_MATCH |
| TRADE_TOTALFEE_NOT_MATCH |
| TRADE_NOT_ALLOWED_PAY |
| DIRECT_PAY_WITHOUT_CERT_CLOSE |
| FAIL_CREATE_CASHIER_PAY_ORDER |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Error Code |
|--|
| ILLEGAL_EXTRA_COMMON_PARAM |
| ILLEGAL_PAYMENT_TYPE |
| NOT_SUPPORT_GATEWAY |
| BUYER_SELLER_EQUAL |
| SELLER_NOT_EXIST |
| ILLEGAL_ARGUMENT |
| TRADE_NOT_FOUND |
| TRADE_GOOD_INFO_NOT_FOUND |
| BUYER_EMAIL_ID_MUST_NULL |
| PRODUCT_NOT_ALLOWED |
| ROYALTY_RECEIVER_NOT_IN_SPECIFIED_ACCOUNTS |
| ROYALTY_LENGTH_ERROR |
| DEFAULT_BANK_INVALID |
| DIS_NOT_SIGN_PROTOCOL |
| SELF_TIMEOUT_NOT_SUPPORT |
| ILLEGAL_OUTTIME_ARGUMENT |
| EBANK_CERDIT_GW_RULE_NOT_OPEN |
| DIRECTIONAL_PAY_FORBIDDEN |
| SELLER_ENABLE_STATUS_FORBID |
| ROYALTY_SELLER_ENABLE_STATUS_FORBID |
| ROYALTY_SELLER_NOT_CERTIFY |
| ROYALTY_FORAMT_ERROR |
| ROYALTY_TYPE_ERROR |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Error Code |
|-----------------------------------|
| ROYALTY_RECEIVE_EMAIL_NOT_EXIST |
| ROYALTY_RECEIVE_EMAIL_NOT_CERTIFY |
| ROYALTY_PAY_EMAIL_NOT_EXIST |
| TAOBAO_ANTI_PHISHING_CHECK_FAIL |
| SUBJECT_HAS_FORBIDDENWORD |
| PAY_CHECK_FAIL |
| BODY_HAS_FORBIDDENWORD |
| NEED_CTU_CHECK_PARAMETER_ERROR |
| NEED_CTU_CHECK_NOT_ALLOWED |
| BUYER_NOT_EXIST |
| HAS_NO_PRIVILEGE |
| ILLEGAL_SIGN |
| ILLEGAL_DYN_MD5_KEY |
| ILLEGAL_ENCRYPT |
| ILLEGAL_ARGUMENT |
| ILLEGAL_SERVICE |
| ILLEGAL_PARTNER |
| ILLEGAL_EXTERFACE |
| ILLEGAL_PARTNER_EXTERFACE |
| ILLEGAL_SECURITY_PROFILE |
| ILLEGAL_AGENT |
| ILLEGAL_SIGN_TYPE |
| ILLEGAL_CHARSET |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Error Code |
|--|
| ILLEGAL_CLIENT_IP |
| ILLEGAL_DIGEST_TYPE |
| ILLEGAL_DIGEST |
| ILLEGAL_FILE_FORMAT |
| ILLEGAL_ENCODING |
| ILLEGAL_REQUEST_REFERER |
| ILLEGAL_ANTI_PHISHING_KEY |
| ANTI_PHISHING_KEY_TIMEOUT |
| ILLEGAL_EXTER_INVOKE_IP |
| ILLEGAL_NUMBER_FORMAT |
| ILLEGAL_INTEGER_FORMAT |
| ILLEGAL_MONEY_FORMAT |
| ILLEGAL_DATA_FORMAT |
| REGEXP_MATCH_FAIL |
| ILLEGAL_LENGTH |
| PARAMTER_IS_NULL |
| NAVIGATION_INCOME_OF_ROYALTY_ACCOUNT |
| INTERNATIONAL_CARD_NOT_SUPPORT |
| INTERNATIONAL_CARD_DEFAULTBANK_IS_NULL |
| INTERNATIONAL_CARD_EXTENDPARAMETER_PARSE_ERROR |
| (Sorry,the transaction failed.(NO.w11)) |
| INTERNATIONAL_CARD_PAYMETHOD_ERROR |
| INTERNATIONAL_OLD_INTERFACE |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Error Code |
|--|
| INTERNATIONAL_NO_REFUND_TIME_LIMIT |
| FORIGEN_CURRENCY_NOT_ALLOW_ROYALTY |
| FOREX_CARD_ALLOW_CURRENCY_NOT_EXISTS |
| FOREX_CARD_NOT_ALLOW_THIS_CURRENCY |
| FORIGEN_CURRENCY_RATE_NOT_EXISTS |
| FORIGEN_CURRENCY_NOT_ALLOW_BUYER_FEE |
| FORIGEN_CURRENCY_TOTAL_FEE_NOT_NULL |
| FORIGEN_CURRENCY_DECIMAL_NUM_NOT_EXISTS |
| FORIGEN_CURRENCY_TOTAL_FEE_NOT_MATCH_DECIMAL_NUM |

11.2 System Error Code



Notice:

When System Error Code occurs, please contact technique support to solve the problem.

Figure 11-2 System Error Code

| Error Code |
|------------------------------|
| SYSTEM_ERROR |
| SESSION_TIMEOUT |
| ILLEGAL_TARGET_SERVICE |
| ILLEGAL_ACCESS_SWITCH_SYSTEM |
| ILLEGAL_SWITCH_SYSTEM |
| EXTERFACE_IS_CLOSED |

11.3 Refund Status

Figure 11-3 Refund Status

| Status | Description |
|----------------|---|
| REFUND_SUCCESS | Refund success: <ul style="list-style-type: none">For Full refund: trade_status= TRADE_CLOSED, and refund_status=REFUND_SUCCESSFor partial refund: trade_status= TRADE_SUCCESS, and refund_status=REFUND_SUCCESS |
| REFUND_CLOSED | Refund Closed |

11.4 Transaction Status

Figure 11-4 Transaction Status

| Status | Description |
|----------------|---|
| WAIT_BUYER_PAY | Transaction awaits user payment |
| TRADE_CLOSED | <ul style="list-style-type: none">Unpaid transactions closed after a period of timeTransactions closed after a full refund. |
| TRADE_SUCCESS | Transaction complete, and available for refund |
| TRADE_PENDING | Pending Transaction |
| TRADE_FINISHED | <ul style="list-style-type: none">Transaction success and passed expire date, not refundableTransaction success and not refundable |

11.5 List of Banks

Figure 11-5 List of Banks

| Bank Code | Bank Description |
|-----------|------------------|
| boc-visa | VISA |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Bank Code | Bank Description |
|--|------------------|
| boc-master | MASTERCARD |
| boc-jcb | JCB |
| Tips: 1. B2B stands for business bank 2. More banks are joining in | |

11.6 Extend Parameters

Figure 11-6 List of extend parameters

| Parameter | Parameter Name | Type(byte length) | Description | Industry | Optional |
|---------------------------|---------------------------------|-------------------|----------------------------------|------------------------------|----------|
| customer_id | Customer ID | String(20) | ID number or Passport ID number. | Traveling, Hotel, Car Rental | N |
| customer_first_name | Customer First Name | String(30) | Customer's first name. | Traveling, Hotel, Car Rental | N |
| customer_last_name | Customer Last Name | String(30) | Customer's last name. | Traveling, Hotel, Car Rental | N |
| customer_email | Customer Email | String(255) | Customer's email. | Traveling, Hotel, Car Rental | N |
| customer_phone | Customer Phone | String(15) | Customer's phone number | Traveling, Hotel, Car Rental | N |
| traveldata_complete_route | Travel Data with Complete Route | String(255) | Departure-Arrival | Traveling | N |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Parameter | Parameter Name | Type(byte length) | Description | Industry | Optional |
|------------------------------|---------------------------------|-------------------|--|------------------------------|---------------------------|
| traveldata_departure_atetime | Travel Data with Departure Time | String(25) | Departure time or check in time. Format: yyyy-MM-dd HH:mm a z (HH for hour, a for a.m ,p for p.m, z for time zone, e.g, GMT stands for Greenwich mean time) For instance: 2011-03-20 11:30pm GMT | Traveling, Hotel, Car Rental | N |
| traveldata_origin | Travel Data of Departure Code | String(3) | Departure Code, e.g: EWR (EWR stands for New York) | Traveling | N |
| traveldata_destination | Travel Data of Arrival Code | String(3) | Arrival Code, e.g: EWR (EWR stands for New York) | Traveling | N |
| traveldata_journeytype | Travel Data of Journey Type | String(32) | <ul style="list-style-type: none"> • Single • roundtrip | Traveling | N |
| passengertype | Passenger Type | String(32) | Refer to Chapter 11.7 "Passenger Types" | Traveling | N |
| passenger_status | Passenger Status | String(32) | <ul style="list-style-type: none"> • 0: No-Common Passenger • 1: Common Passenger • 2: Golden Common Passenger • 3: Platinum Common Passenger | Air Traveling | N (with common passenger) |
| ship_to_country | Ship to Country | String(2) | ISO standard, e.g US. | Goods, Purchase | N |
| ship_to_state | Ship to State | String(2) | ISO standard for the states of US and Canada, e.g IL | Goods, Purchase | N |
| ship_to_city | Ship to City | String(50) | Shipment City | Goods, Purchase | N |
| ship_to_street1 | Ship to Street 1 | String(60) | Shipment Street 1 | Goods, Purchase | N |

INTERNATIONAL CREDIT CARD PAYMENT API SPECIFICATION



| Parameter | Parameter Name | Type(byte length) | Description | Industry | Optional |
|---------------------|----------------------|-------------------|---|-----------------|-------------------------|
| ship_to_street2 | Ship to Street 2 | String(60) | Shipment Street 2 | Goods, Purchase | N |
| ship_to_phonenumber | Ship to Phone Number | String(15) | Shipment Phone Number | Goods, Purchase | N |
| ship_to_postalcode | Ship to Postal Code | String(10) | Shipment Postal Code | Goods, Purchase | N |
| ship_to_shipmethod | Ship Method | String(10) | Please refer to Chapter 11.8 "Shipment Methods" | Goods, Purchase | N |
| ship_to_first name | Ship to First Name | String(60) | Receiver's first name. | Goods, Purchase | N |
| ship_to_last name | Ship to Last Name | String(60) | Receiver's last name | Goods, Purchase | N |
| product_name | Product Name | String(30) | The Description of goods. | All | N |
| logistics_cost | Logistics Cost | String(10) | Logistics cost. Unit: RMB | Goods | N |
| registration_name | Registration Name | String(30) | Customer's registration name on seller's website. | All | N (with account system) |
| registration_email | Registration Email | String(30) | Customer's registration email on seller's website. | All | N (with account system) |
| registration_phone | Registration Phone | String(15) | Customer's registration phone number on seller's website. | All | N (with account system) |
| buyerid_period | Buyer ID Period | String(15) | The period of customer's registration. Unit: Day. | All | Y |

11.7 Passenger Types

Figure 11-7 Passenger Types

| Type Code | Type |
|-----------|----------|
| ADT | Adult |
| CNN | Child |
| INF | Infant |
| YTH | Youth |
| STU | Student |
| SCR | Old |
| MIL | Military |

11.8 Shipment Methods

Figure 11-8 Shipment Methods

| Shipment Method Code | Logistics Company |
|----------------------|-------------------|
| 0 | China post |
| 1 | Hongkong post |
| 2 | EMS |
| 3 | DHL |
| 4 | Fedex |
| 5 | TNT |
| 6 | UPS |
| 7 | Others |