

Alipay Domestic Services

Using the SCMP API

August 2019

CyberSource[®]
the power of payment

CyberSource Contact Information

For general information about our company, products, and services, go to <http://www.cybersource.com>.

For sales questions about any CyberSource Service, email sales@cybersource.com or call 650-432-7350 or 888-330-2300 (toll free in the United States).

For support information about any CyberSource Service, visit the Support Center: <http://www.cybersource.com/support>

Copyright

© 2019 CyberSource Corporation. All rights reserved. CyberSource Corporation ("CyberSource") furnishes this document and the software described in this document under the applicable agreement between the reader of this document ("You") and CyberSource ("Agreement"). You may use this document and/or software only in accordance with the terms of the Agreement. Except as expressly set forth in the Agreement, the information contained in this document is subject to change without notice and therefore should not be interpreted in any way as a guarantee or warranty by CyberSource. CyberSource assumes no responsibility or liability for any errors that may appear in this document. The copyrighted software that accompanies this document is licensed to You for use only in strict accordance with the Agreement. You should read the Agreement carefully before using the software. Except as permitted by the Agreement, You may not reproduce any part of this document, store this document in a retrieval system, or transmit this document, in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written consent of CyberSource.

Restricted Rights Legends

For Government or defense agencies. Use, duplication, or disclosure by the Government or defense agencies is subject to restrictions as set forth the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 and in similar clauses in the FAR and NASA FAR Supplement.

For civilian agencies. Use, reproduction, or disclosure is subject to restrictions set forth in subparagraphs (a) through (d) of the Commercial Computer Software Restricted Rights clause at 52.227-19 and the limitations set forth in CyberSource Corporation's standard commercial agreement for this software. Unpublished rights reserved under the copyright laws of the United States.

Trademarks

Authorize.Net, eCheck.Net, and The Power of Payment are registered trademarks of CyberSource Corporation.

CyberSource, CyberSource Payment Manager, CyberSource Risk Manager, CyberSource Decision Manager, and CyberSource Connect are trademarks and/or service marks of CyberSource Corporation.

All other brands and product names are trademarks or registered trademarks of their respective owners.

Contents

Recent Revisions to This Document 5

About This Guide 6

Audience and Purpose 6

Conventions 6

 Note and Important Statements 6

 Text and Command Conventions 7

Related Documents 7

Customer Support 7

Chapter 1 Using Alipay Domestic Services 8

Alipay Domestic Services 8

 Initiate Payment Service 8

 Merchant URL Parameters 9

 Check Status Service 10

 Refund Payment Service 11

Supported Payment Types 11

Creating an Alipay Account 12

Funding an Alipay Account 13

Alipay Supported Browsers 13

Chapter 2 Processing Alipay Transactions 14

Initiating a Payment 14

Checking Payment Status 15

Refunding a Payment 15

Viewing Transactions in the Business Center 17

Chapter 3	Testing Alipay Services	18
	Simulating Response Messages	19
	Check Status Response	19
	Refund Response	20

Appendix A	API Fields	21
	Data Type Definitions	21
	Working with Multibyte Character Strings	22
	Request Fields	22
	Reply Fields	24
	Reply Flags	27

Appendix B	Examples	28
	Initiate Payment Example	28
	Web Payment	28
	Mobile Payment	29
	Check Payment Status Example	30
	Web Payment	30
	Mobile Payment	30
	Refund Payment Examples	31
	Web Payment	31
	Mobile Payment	32

Recent Revisions to This Document

Release	Changes
August 2019	Added information about multibyte character strings. See "Working with Multibyte Character Strings," page 22.
March 2019	This revision contains only editorial changes and no technical updates.
March 2017	Removed the "Merchant Notifications" section. Removed the link to the <i>New Business Center User Guide</i> .
May 2015	Updated the link to the <i>New Business Center User Guide</i> . See page 11.
October 2015	Added the "Merchant Notifications" section. See page 11.
September 2015	<p>Added the "Supported Payment Types" section. See page 11.</p> <p>Added an Important note regarding the ap_payment_type request field to the following sections:</p> <ul style="list-style-type: none"> ■ "Initiating a Payment," page 14. ■ "Checking Payment Status," page 15. ■ "Refunding a Payment," page 15. <p>Added the mobile payment value ADM to the ap_payment_type request field. See page 23.</p> <p>Added the Mobile Payment examples:</p> <ul style="list-style-type: none"> ■ "Initiate Payment Request," page 29. ■ "Check Status Request," page 30. ■ "Refund Request," page 32.
March 2015	Updated the "Simulating Response Messages" section. See page 19.

About This Guide

Audience and Purpose

This guide is written for merchants who want to offer Alipay services to customers. The Alipay real-time domestic payment solution enables China-based merchants to trade in China. Customers who are registered Alipay account holders can select Alipay as their payment method on the merchant web site.

This guide describes tasks a merchant must complete in order to make a payment, request the status of a payment, or refund a payment. It is intended to help the merchant provide a seamless customer payment experience.

Conventions

Note and Important Statements



Note

A *Note* contains helpful suggestions or references to material not contained in this document.



Important

An *Important* statement contains information essential to successfully completing a task or learning a concept.

Text and Command Conventions

Convention	Usage
Bold	<ul style="list-style-type: none"> Field and service names; for example: Include the request_id field. Items that you are instructed to act upon; for example: Click Save.
Screen text	<ul style="list-style-type: none"> XML elements. Code examples and samples.

Related Documents

- *Getting Started with CyberSource Advanced for the SCMP API* ([PDF](#) | [HTML](#))—describes how to start using your CyberSource advanced account.
- [SCMP API Documentation and Downloads page](#).
- *Business Center Overview* ([PDF](#) | [HTML](#))—describes the features and options available with your CyberSource advanced account using the Business Center.

Refer to the Support Center for complete CyberSource technical documentation:

http://www.cybersource.com/support_center/support_documentation

Customer Support

For support information about any CyberSource service, visit the Support Center:

<http://www.cybersource.com/support>

Using Alipay Domestic Services



Important

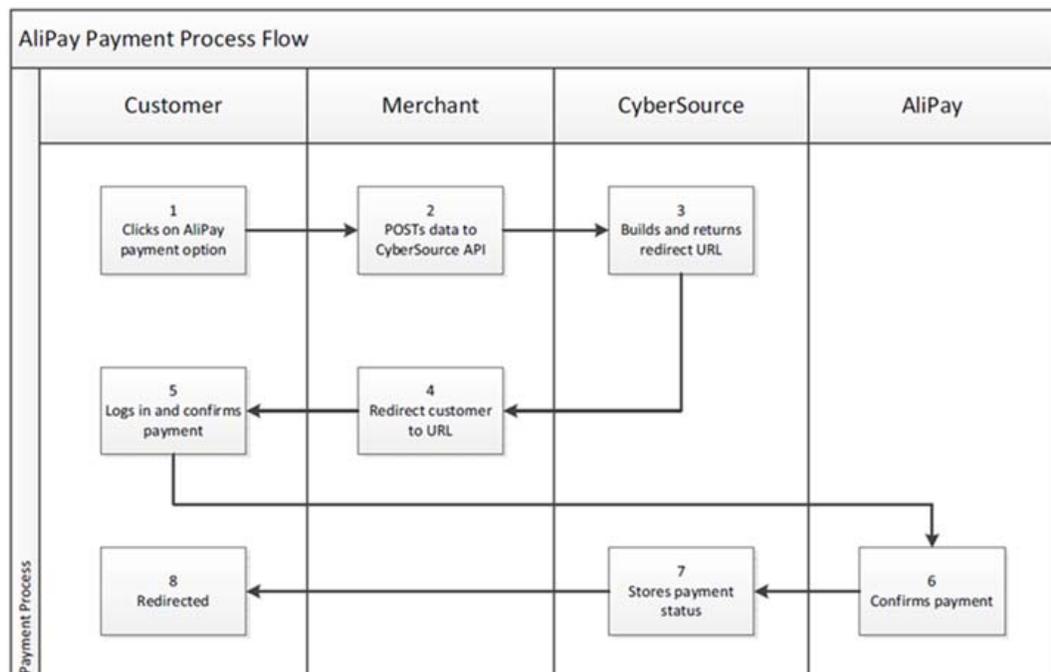
All Alipay domestic payments are processed in Renminbi (RMB). You must capture the required billing and shipping information as part of the checkout process. Alipay does not provide this information to merchants. Alipay monitors their systems for problems; however, CyberSource recommends that you monitor their customer dropout rates.

Alipay Domestic Services

Initiate Payment Service

The initiate payment service illustrated in [Figure 1](#) is described in detail below.

Figure 1 Initiate Payment Service



The Alipay domestic payments web site is a real-time payment solution enabling China-based merchants to trade in China. The payment process is as follows:

- 1 When ready to pay for a product selected from your web site, the customer clicks the Alipay customized pay button.



Important

CyberSource recommends that you detect the customer's payment device and include the appropriate value in the **ap_payment_type** field: APD for a web payment (personal computer or laptop) or ADM for a mobile payment (handheld device).

- 2 Using the CyberSource API, you POST the merchant details and order information from the initiate payment service request to CyberSource.
- 3 CyberSource creates a signed merchant URL. To redirect customers to their Alipay accounts for transaction processing, see "[Merchant URL Parameters](#)," page 9. CyberSource sends the signed merchant URL back to you.
- 4 The customer is redirected to the URL that CyberSource sent to you in number 3. This URL directs the customer to their Alipay account.
- 5 The customer logs in to their Alipay account or creates a new account. The RMB amount is displayed. The payment is not visible to you as the merchant, and the customer can cancel without your knowledge. The customer pays in RMB for a purchase from a domestic e-commerce web site.
- 6 Alipay accepts the payment request and sends payment notification to CyberSource that the payment is complete. Alipay withdraws the payment from the customer's account in real time and remits the funds to the domestic merchant account in settlement.
- 7 CyberSource stores the payment status. You can retrieve the payment status by requesting the check status service. See "[Check Status Service](#)," page 10.
- 8 The customer's browser is redirected to the return URL that is specified during merchant boarding. Alipay recommends that you ignore the HTTP GET information indicating the transaction result because it could have been tampered with. See "[Initiating a Payment](#)," page 14.

Merchant URL Parameters

The merchant URL consists of the following parameters. See [ap_initiate_merchant_url](#), page 24.

Table 1 Merchant URL Parameters

Parameter	Description
Alipay web site	mapi.alipay.com/gateway.do
Body	Description of the product purchased.
Notify URL	URL for displaying notifications after the transaction is processed.
Out trade no	Unique transaction ID.
Partner	Merchant ID for Alipay.

Table 1 Merchant URL Parameters (Continued)

Parameter	Description
Payment type	The payment type used for the transaction. The value is 1.
Return URL	URL of the web page that is displayed to the customer when the transaction is complete.
Service	Alipay service name.
Subject	Product purchased by the customer.
Total fee	Grand total for the order.
Sign and sign type	Digital signature and type of signature used to verify the transaction information. The digital signature prevents data tampering.
Seller email	Merchant email address registered in the merchant Alipay account.
it_b_pay	<p>The time out limit for a transaction. The time out limit starts when Alipay approves the URL request, and when it expires the transaction is automatically closed. The possible integer values are:</p> <ul style="list-style-type: none"> ■ 1c: the transaction expires at the end of the day (Chinese Standard Time) ■ ##d: minimum of 1 day to a maximum of 15 days ■ ###h: maximum of 360 hours ■ #####m: minimum of 5 minutes to a maximum of 21600 minutes <p>For example, it_b_pay=1.5h is not a valid value. The value must be an integer value of it_b_pay=90m.</p> <p>Note If no value is included Alipay adds the default value of 15d. If an incorrect or invalid value is included, Alipay rejects the transaction.</p> <p>Important Contact CyberSource Customer Support to configure your transaction time-out settings.</p>

Check Status Service



You must request the check status service to receive the most recent status of a payment.

When the customer is redirected to your web site after making a payment, you must request the status of the payment at the recommended intervals listed below to receive the most recent status of the payment. The status confirms whether the payment was accepted or not between the customer and Alipay. Checking payment status is a follow-on transaction that uses the request ID returned from the initiate payment request. The initiate payment request ID links the check status request to the payment transaction.

If the payment status is PENDING, wait 1 hour before trying again. Recommended intervals are:

- Immediately
- 1 hour
- 4 hours
- 12 hours
- Daily

If the payment status does not change to COMPLETED after 15 days, do not send further payment requests. After 15 days, the status changes to ABANDONED.



Note

When the payment status is COMPLETED or ABANDONED it appears in the Payment Events report. For more information regarding the Payment Events report, see the *Classic Reporting Developer Guide* ([PDF](#) | [HTML](#)).

Refund Payment Service

A refund is a follow-on transaction that uses the request ID returned from the initiate payment request. The request ID links the refund transaction to the payment transaction.



Important

CyberSource recommends that the payment status must be COMPLETED before refunding a payment and returning funds to the customer account. Before refunding a payment, request the Check Status service to retrieve the status of the payment.

Supported Payment Types

Alipay Domestic Services support two payment types: web payments and mobile payments.

Table 2 Supported Payment Types

Payment Type	Description
Web Payment	<p>The payment flow is optimized for a browser displayed on a personal computer or laptop.</p> <p>Include the APD value in the ap_payment_type request field for the Initiate Payment request, the follow-on Check Payment Status request, and the Refund request.</p>

Table 2 Supported Payment Types (Continued)

Payment Type	Description
Mobile Payment	<p>The payment flow is optimized for a browser displayed on a mobile device.</p> <p>Include the ADM value in the ap_payment_type request field for the Initiate Payment request, the follow-on Check Payment Status request, and the Refund request.</p>

Creating an Alipay Account



Important

Creating an Alipay account can take as long as 4 weeks.

To create an Alipay account:

- Step 1** Contact CyberSource Sales for a CyberSource Gateway agreement and an Alipay Merchant agreement.
- Step 2** Complete both agreements.
- Step 3** CyberSource Sales submits all documentation to Alipay for approval. When approval is complete, you receive your Alipay merchant ID and password.
- Step 4** Before CyberSource can implement the Alipay services, you must contact Customer Support to:
 - Configure your merchant account for the Alipay services.
 - Specify your allocated Alipay merchant ID, merchant password, and seller email.
 - Specify your merchant password key.
 - Specify your Alipay return URL—override this URL by specifying the return URL in the **ap_initiate_return_url** field. See "[ap_initiate_return_url](#)," page 22. Configure your transaction time out limit.

Funding an Alipay Account

Table 3 Funding Options

Funding Option	Description
Alipay online payment	Log in to your Alipay account to increase your account balance, transfer funds to another account, receive funds (provided you have completed the real-name verification), pay bills directly, or divide bills between parties.
China Union Pay Debit Card Payment	All debit card transactions are processed in real time. Alipay accepts debit cards from more than 100 financial institutions.
Credit card (CUP card) payment	All credit card transactions are processed in real time. Internationally issued credit cards are not accepted for processing international transactions.
Offline payment	Alipay is partnered with the Chinese Postal ePost offices, enabling you to purchase products online or pay with cash at any ePost office.
Visa/MasterCard/JCB Card	All Visa/MasterCard/JCB credit and debit cards issued in China.

Alipay Supported Browsers

- Internet Explorer
- Sogou
- Maxthon
- Firefox
- Safari

Processing Alipay Transactions

Initiating a Payment

To initiate a payment:

Step 1 Set the `ics_applications` field to `ics_ap_initiate`.

Step 2 Include the following fields in the request:

- `merchant_id`
- `merchant_ref_number`
- `ap_payment_type`



Set the value of the `ap_payment_type` field to APD for a web payment or ADM for a mobile payment. The same value must be used in the follow-on Check Payment Status request and the Refund request.

- `ap_initiate_product_name`
- `ap_initiate_product_description`—optional. See ["Working with Multibyte Character Strings," page 22](#).
- `ap_initiate_return_url`
- `currency`—this value must be CNY. See ["Working with Multibyte Character Strings," page 22](#).
- `grand_total_amount`

For detailed descriptions of all request and reply fields, see ["API Fields," page 21](#). For an Initiate Payment example, see [page 28](#).

Checking Payment Status

To check the status of a payment:

Step 1 Set the `ics_applications` field to `ics_ap_check_status`.

Step 2 Include the following fields in the request:

- `merchant_id`
- `merchant_ref_number`
- `ap_payment_type`



Important

Set the value of the `ap_payment_type` field to APD for a web payment or ADM for a mobile payment. The same value must be used in the follow-on Check Payment Status request and the Refund request.

- `ap_initiate_request_id`—returned in the initiate payment service reply. See "Reply Fields," page 24.

For detailed descriptions of all request and reply fields, see "API Fields," page 21. For a Check Status example, see page 30.

Refunding a Payment



Important

CyberSource recommends that the payment status must be COMPLETED before refunding a payment and returning funds to the customer account. Before refunding a payment, request the Check Status service to retrieve the status of the payment.

To refund a payment:

Step 1 Set the `ics_applications` field to `ics_ap_refund`.

Step 2 Include the following fields in the request:

- `merchant_id`
- `merchant_ref_number`
- `ap_payment_type`



Important

Set the value of the `ap_payment_type` field to APD for a web payment or ADM for a mobile payment. The same value must be used in the follow-on Check Payment Status request and the Refund request.

- **ap_initiate_request_id**—returned in the initiate payment service reply. See "Reply Fields," page 24.
- **ap_refund_reason**
- **currency**
- **grand_total_amount**

For detailed descriptions of all request and reply fields, see "API Fields," page 21. For a Refund Payment example, see page 31.

To refund a transaction using the Business Center:

- Step 1** Log in to the Business Center:
- Live merchant transactions: <https://ebc.cybersource.com>
 - Test merchant transactions: <https://ebctest.cybersource.com>
- Step 2** In the left navigation panel, choose **Transaction Search > General Search**. The General Search page appears.
- Step 3** Check **Search for an application or transaction type**.
- Step 4** Select **Alternative Payment Initiate**.
- Step 5** Select a date range: select the date and time interval for your search, from transactions processed during the past hour to those from the previous 1-6 months or a custom range that you define.
- Step 6** Click **Search**. The Transaction Search Results page appears.
- Step 7** Click the transaction **request ID** link. The Transaction Search Details page appears.
- Step 8** Under the heading Available Actions, click **Refund**. The Alipay Refund page appears.
- Step 9** Enter the refund amount.
- Step 10** Enter a reason for the refund. This step is optional.
- Step 11** Click **Refund**. The Transaction Search Details page appears.
-

Viewing Transactions in the Business Center

Log in to the Business Center to search for and view transactions. Use the transaction search option to find and view transactions that you need to review or refund.

To find and view a transaction:

- Step 1** Log in to the Business Center:
- Live merchant transactions: <https://ebc.cybersource.com>
 - Test merchant transactions: <https://ebctest.cybersource.com>
- Step 2** In the left navigation panel, choose **Transaction Search > General Search**. The General Search page appears.
- Step 3** Check **Search for an application or transaction type**.
- Step 4** Select one of the following transaction types:
- Alternative Payment Initiate
 - Alternative Payment Refund
 - Alternative Payment Status
- Step 5** Select a date range: select the date and time interval for your search, from transactions processed during the past hour to those from the previous 1-6 months or a custom range that you define.
- Step 6** Click **Search**. The Transaction Search Results page appears.
- Step 7** Click the **request ID** link of the transaction. The Transaction Search Details page appears.
-

Testing Alipay Services



There is no Alipay test environment. The following steps simulate customer interaction with Alipay.

To test Alipay services:

Step 1 Create an HTML file and add the following code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  <head>
    <title>This is an Alipay Simulator. No action is required.</title>
    <script type="text/javascript">
      // Parse GET parameters
      window.params = function()
      {
        var parameters = {};
        var urlData = window.location.href.split('?')[1].split('&');
        for(var i in urlData)
        {
          x = urlData[i].split('=');
          parameters[x[0]] = x[1];
        }
        return parameters;
      }();
      // Redirect to HTTP GET "return_url" value
      function Redirect()
      {
        window.location = decodeURIComponent((window.params.return_url).replace(/\+/g, '%20'));
      }
    </script>
  </head>
  <body onLoad="setTimeout('Redirect()', 3000)">
    <p>This is an Alipay Simulator. No action is required.</p>
  </body>
</html>
```

- Step 2** Save the Alipay simulator file on your web server.
- Step 3** Send an initiate payment service request. Use the test URL:
<http://ics2testa.ic3.com>
- Step 4** Edit the information in the **ap_initiate_merchant_url** response field to redirect to the Alipay simulator. Replace `https://mapi.alipay.com/gateway.do` with the location of the simulator file that you saved on your web server.

Example 1 Merchant URL Response Information

```
https://mapi.alipay.com/gateway.do?_input_charset=UTF-8&body=Science+Fiction&it_b_pay=10d&notify_url=https%3A%2F%2Falipay.cybersource.com&out_trade_no=12345678901234567890123456789012&partner=2088201564874474&payment_type=1&return_url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_return.jsp&seller_email=alipay-test%40alipay.com&service=create_direct_pay_by_user&subject=Book&total_fee=0.01&sign=989338fdb4babc91fdf43a53f718991b&sign_type=RSA
```

Simulating Response Messages

Check Status Response

By including a predetermined value in the **ap_initiate_trans_ref_no** request field, you can generate specific responses in the check status transaction reply message.

To simulate a payment check status response:

- Step 1** Request the initiate payment service. Include one of the following transaction reference numbers in the request for the appropriate response. See [Table 1](#).
- Step 2** Request the check status service and include the request ID returned from the initiate payment request.

Table 1 Trigger Values

Initiate Payment Request API Field	Check Status Reply API Field
=666666666701	=COMPLETED
=666666666702	=PENDING
=666666666703	=ABANDONED
=666666666725	—

Refund Response

By including a predetermined value in the **grand_total_amount** request field, you can generate specific responses in the refund transaction reply message.

To simulate a refund payment response:



Important

Any refund amount between 10 and 27 triggers a specific error response.

- Step 1** Request the initiate payment service (see [page 14](#)) and include the **ap_initiate_trans_ref_no** field in the request. Set the **ap_initiate_trans_ref_no** field to 666666666702 (see [Table 1, page 19](#)).
- Step 2** Request the check status service (see [page 15](#)).
- Step 3** Request the refund service for the same value (or less) that was included in the initiate payment request ([Step 1](#)) and include the request ID returned from the initiate payment request. See "[Refunding a Payment](#)," [page 15](#). Include one of the following amounts in the refund request to receive the specific response.

Table 2 Refund Amount Trigger Values

Refund Request API Field	Refund Reply API Field
grand_total_amount=10	ics_rflag=SOK
grand_total_amount=11	ics_rflag=DINVALIDATA

API Fields

Data Type Definitions

Table 1 Data Type Definitions

Data Type	Description
Date and time	Format is YYYY-MM-DDThhmmssZ, where: <ul style="list-style-type: none">■ T separates the date and the time■ Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT) <p>Example 2019-08-11T22:47:57Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)</p>
Decimal	Number that includes a decimal point <p>Example 23.45, -0.1, 4.0, 90809.0468</p>
Integer	Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}
Nonnegative integer	Whole number greater than or equal to zero {0, 1, 2, 3, ...}
Positive integer	Whole number greater than zero {1, 2, 3, ...}
String	Sequence of letters, numbers, spaces, and special characters

Working with Multibyte Character Strings

Many international languages – such as Korean, Chinese, and Russian – require more than one ASCII byte per character. Therefore, a string of multibyte characters can exceed the allotted string length of some API fields.

In many international languages, a short name that visually has only 3 or 4 characters may be equivalent to 10 or 15 bytes in UTF-8. Therefore, it is important to take into consideration the overall length of a multibyte string to be sure it fits into the allotted ASCII string length.



Important

For best success when working with international languages, make sure the total size of a multibyte string does not exceed the ASCII string length for a specific API field.

Request Fields

Table 2 Request Fields

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ap_initiate_request_id	Identifier returned from the initiate payment service request.	Check Status (R) Refund (R)	String (26)
ap_initiate_product_description	Description of the product offered to the customer. Important If you are using Chinese characters, the maximum string length is shorter.	Initiate Payment (O)	String (255)
ap_initiate_product_name	Product offered to the customer. Important If you are using Chinese characters, the maximum string length is shorter.	Initiate Payment (R)	String (105)
ap_initiate_return_url	The web page to which the customer is directed when the transaction is complete. Important This URL overrides the URL that was specified when the merchant account was created.	Initiate Payment (O)	String (200)

Table 2 Request Fields (Continued)

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ap_payment_type	Identifier for the payment type. Values: <ul style="list-style-type: none"> ■ APD: web payment ■ ADM: mobile payment 	Initiate Payment (R) Check Status (R) Refund (R)	String (3)
ap_refund_reason	Text describing the reason for the refund.	Refund (R)	String (100)
currency	Currency used for the order. Value: CNY	Initiate Payment (R)	String (10)
grand_total_amount	Grand total for the order. For more information about items and grand totals, see <i>Getting Started with CyberSource Advanced for the SCMP API</i> (PDF HTML).	Initiate Payment (R) Refund (R)	String (10)
ics_applications	CyberSource services to process for the request. Possible values: <ul style="list-style-type: none"> ■ Initiate Payment Service: ics_ap_initiate ■ Check Status Service: ics_ap_check_status ■ Refund Service: ics_ap_refund 	Initiate Payment (R) Check Status (R) Refund (R)	String (256)
merchant_id	Your CyberSource merchant ID.	Initiate Payment (R) Check Status (R) Refund (R)	String (50)
merchant_ref_number	Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the SCMP API</i> (PDF HTML).	Initiate Payment (R) Check Status (R) Refund (R)	String (50)

Reply Fields

Table 3 Reply Fields

Field Name	Description	Returned By	Data Type & Length
ap_check_status_payment_status	Description of the payment status. Possible values: <ul style="list-style-type: none"> ■ PENDING: Payment has not been processed. ■ COMPLETED: Payment is complete. ■ ABANDONED: customer cancelled the payment. 	Check Status	String (15)
ap_check_status_processor_transaction_id	Alipay unique identification for the check status service request.	Check Status	String (28)
ap_check_status_rcode	One-digit reply code that indicates whether the ics_ap_check_status request was successful. Possible values: <ul style="list-style-type: none"> ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful 	Check Status	Integer (1)
ap_check_status_rflag	One-word description of the result of the ics_ap_check_status request. See page 27 .	Check Status	String (50)
ap_check_status_rmsg	Message explaining the reply code ap_check_status_rflag .	Check Status	String (255)
ap_check_status_trans_ref_no	Reference number that you use to reconcile your CyberSource reports with your Alipay reports. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the SCMP API</i> (PDF HTML).	Check Status	String (32)
ap_initiate_merchant_url	Redirect URL to the Alipay web site to confirm the transaction. See "Merchant URL Parameters," page 9 .	Initiate Payment	

Table 3 Reply Fields (Continued)

Field Name	Description	Returned By	Data Type & Length
ap_initiate_rcode	One-digit reply code that indicates whether the ics_ap_initiate request was successful. Possible values: <ul style="list-style-type: none"> ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful 	Initiate Payment	Integer (1)
ap_initiate_rflag	One-word description of the result of the ics_ap_initiate request. See page 27 .	Initiate Payment	String (50)
ap_initiate_rmsg	Message explaining the reply code ap_initiate_rflag .	Initiate Payment	String (255)
ap_initiate_trans_ref_no	Reference number that you use to reconcile your CyberSource reports with your Alipay reports. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the SCMP API</i> (PDF HTML).	Initiate Payment	String (32)
ap_refund_amount	Total amount for the refund.	Refund	String (15)
ap_refund_date_time	Date and time of the refund.	Refund	String (14)
ap_refund_rcode	One-digit reply code that indicates whether the refund request was successful. Possible values: <ul style="list-style-type: none"> ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful 	Refund	Integer (1)
ap_refund_return_ref	Merchant-generated reference for the refund. CyberSource recommends that you send a unique value for each refund so that you can perform meaningful searches for the transaction. CyberSource will generate a refund return reference number if this field is not populated.	Refund	String (32)
ap_refund_rflag	One-word description of the result of the refund request. See page 27 .	Refund	String (50)
ap_refund_rmsg	Message explaining the reply code.	Refund	String (255)

Table 3 Reply Fields (Continued)

Field Name	Description	Returned By	Data Type & Length
ap_refund_trans_ref_no	Reference number that you use to reconcile your CyberSource reports with your Alipay reports. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the SCMP API</i> (PDF HTML).	Refund	String (32)
ics_rcode	One-digit reply code that indicates whether the request was successful. Possible values: <ul style="list-style-type: none"> ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful 	Initiate Payment Check Status Refund	Integer (1)
ics_rflag	One-word description of the result of the request. See page 27 .	Initiate Payment Check Status Refund	String (50)
ics_rmsg	Message explaining the reply code.	Initiate Payment Check Status Refund	String (255)
merchant_ref_number	Order reference or tracking number that you provided in the request. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the SCMP API</i> (PDF HTML).	Initiate Payment Check Status Refund	String (50)
request_id	Identifier for the request generated by the client.	Initiate Payment Check Status Refund	String (26)

Reply Flags

The following table describes the reply flags that are associated with a request.

Table 4 Reply Flags

Reply Flag	Description
SOK	Transaction was successful.
DINVALIDDATA	Data provided is not consistent with the request.
ESYSTEM	System error. You must design your transaction management system to correctly process CyberSource system errors. CyberSource recommends that you not design your system to endlessly retry sending a transaction when a system error occurs. For information about handling system errors and retries, see the documentation for the CyberSource client that you are using. Possible error: payment processor error due to a non-existent transaction (TRADE_NOT_EXIST).

Examples

Initiate Payment Example

Web Payment

Example Initiate Payment Request

```
ics_applications=ics_ap_initiate
ap_payment_type=APD
merchant_id=Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_return_url=https://www.example.com
ap_initiate_product_name=Book
ap_initiate_product_description=Vintage
currency=CNY
grand_total_amount=60.00
ap_initiate_trans_ref_no=123456789
```

Example Initiate Payment Reply

```
request_id=123456789012932409425
ap_initiate_merchant_url=https://mapi.alipay.com/gateway.do?_input_
charset=UTF-8&body=Paperback&it_b_pay=10d&notify_
url=https%3A%2F%2Falipay.cybersource.com&out_trade_
no=03GA0A00MH6M&partner=2088201564874474&payment_type=1&return_
url=https%3A%2F%2Fwww.cybersource.com&seller_email=alipay-
test%40alipay.com&service=create_direct_pay_by_
user&subject=A+Book&total_
fee=0.01&sign=0ce499efb72647d79a23f211f14bbf9a&sign_type=RSA
ap_initiate_rcode=1
ap_initiate_rflag=SOK
ap_initiate_rmsg=The request was processed successfully.
ics_rcode=1
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
ap_initiate_trans_ref_no=123456789
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
```

Mobile Payment

Example Initiate Payment Request

```
ics_applications=ics_ap_initiate
ap_payment_type=ADM
merchant_id=Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_return_url=https://www.example.com
ap_initiate_product_name=Book
ap_initiate_product_description=Vintage
currency=CNY
grand_total_amount=60.00
ap_initiate_trans_ref_no=123456789
```

Example Initiate Payment Reply

```
request_id=123456789012932409425
ap_initiate_merchant_url=https://mapi.alipay.com/gateway.do?_input_
charset=UTF-8&body=Vintage&notify_
url=https%3A%2F%2Fpnr.ic3.com%2Fpnr%2Fv1%2Fgateway%2Falipaydomestic%2Fp
ayment%2F10441134016243500001737&out_trade_
no=66666666701&partner=2088201564874474&payment_
type=1&return_url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_
return.jsp&seller_
id=2088201564874474&service=alipay.wap.create.direct.pay.by.user&am
p;subject=Book&totalfee=60.00&sign=FvtDde8AImHJOgKat%2BhMu%2BH%
2B048aFpiRa25NF1ICnnEpsb4a%2FgqwMuPQ7NPYXGk9OqNoUmL4eBIA%0D%0Aoom0J%2BM
exPV9IcXvtTgYwGPrTomJsGUizYH%2B9gduB9nIruY2ygPxz%2B8kKA9UA3BMJ067RLx7%2
FVVU%0D%0ArDb%2BIEZcluUKjBVHxc3lpgyZCQo46IEZVNQZbsL4gV8pIF%2FYGOGliwmtX
4qukIUneW39U1B%2F6ygh%0D%0Ass6vKrZ%2BGS9iFuaBrHekeQw0ZuwH6VlHb1Af%2F8Lt
wraC3wrSJirFXZ1srkHfRE08GwkHZU5Yqu02%0D%0A%2F41nLq1cDwc8iljsSB9cP2nWjba
qm2Vv9oGk2w%3D%3D&sign_type=RSA
ap_initiate_rcode=1
ap_initiate_rflag=SOK
ap_initiate_rmsg=The request was processed successfully.
ics_rcode=1
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
ap_initiate_trans_ref_no=123456789
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
```

Check Payment Status Example

Web Payment

Example Check Status Request

```
ics_applications=ics_ap_check_status
ap_payment_type=APD
merchant_id=Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425
```

Example Check Status Reply

```
ap_check_status_payment_status=COMPLETED
ap_check_status_processor_transaction_id=2012011808153910
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ap_check_status_trans_ref_no=123456789
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
request_id=123456789012932409425
```

Mobile Payment

Example Check Status Request

```
ics_applications=ics_ap_check_status
ap_payment_type=ADM
merchant_id=Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425
```

Example Check Status Reply

```

ap_check_status_payment_status=COMPLETED
ap_check_status_processor_transaction_id=2012011808153910
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ap_check_status_trans_ref_no=123456789
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
request_id=123456789012932409425

```

Refund Payment Examples

Web Payment

Example Refund Request

```

ics_applications=ics_ap_refund
ap_payment_type=APD
merchant_id=ni_Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425
ap_refund_reason=damaged goods
currency=CNY
grand_total_amount=60.00

```

Example Refund Reply

```

ap_refund_amount=60.00
ap_refund_date_time=2012-07-16T085624Z
ap_refund_rcode=1
ap_refund_return_ref=03GSI4L63020
ap_refund_rflag=SOK
ap_refund_rmsg=Request was processed successfully.
ap_refund_trans_ref_no=012345678901
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
request_id=123456789012932409425

```

Mobile Payment

Example Refund Request

```
ics_applications=ics_ap_refund
ap_payment_type=ADM
merchant_id=ni_Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425
ap_refund_reason=damaged goods
currency=CNY
grand_total_amount=60.00
```

Example Refund Reply

```
ap_refund_amount=60.00
ap_refund_date_time=2012-07-16T085624Z
ap_refund_rcode=1
ap_refund_return_ref=03GSI4L63020
ap_refund_rflag=SOK
ap_refund_rmsg=Request was processed successfully.
ap_refund_trans_ref_no=012345678901
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
request_id=123456789012932409425
```
