Alipay Domestic Services
Using the SCMP API

March 2019
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## Recent Revisions to This Document

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<th>Release</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2019</td>
<td>This revision contains only editorial changes and no technical updates.</td>
</tr>
<tr>
<td>March 2017</td>
<td>Removed the “Merchant Notifications” section. Removed the link to the New Business Center User Guide.</td>
</tr>
<tr>
<td>May 2015</td>
<td>Updated the link to the New Business Center User Guide. See page 11.</td>
</tr>
<tr>
<td>October 2015</td>
<td>Added the “Merchant Notifications” section. See page 11.</td>
</tr>
<tr>
<td>September 2015</td>
<td>Added the “Supported Payment Types” section. See page 11.</td>
</tr>
<tr>
<td></td>
<td>Added an Important note regarding the <code>ap_payment_type</code> request field to the following sections:</td>
</tr>
<tr>
<td></td>
<td>- &quot;Initiating a Payment,&quot; page 14.</td>
</tr>
<tr>
<td></td>
<td>- &quot;Checking Payment Status,&quot; page 15.</td>
</tr>
<tr>
<td></td>
<td>- &quot;Refunding a Payment,&quot; page 15.</td>
</tr>
<tr>
<td></td>
<td>Added the mobile payment value ADM to the <code>ap_payment_type</code> request field. See page 22.</td>
</tr>
<tr>
<td></td>
<td>Added the Mobile Payment examples:</td>
</tr>
<tr>
<td></td>
<td>- &quot;Initiate Payment Request,&quot; page 28.</td>
</tr>
<tr>
<td></td>
<td>- &quot;Check Status Request,&quot; page 29.</td>
</tr>
<tr>
<td></td>
<td>- &quot;Refund Request,&quot; page 31.</td>
</tr>
<tr>
<td>March 2015</td>
<td>Updated the “Simulating Response Messages” section. See page 19.</td>
</tr>
</tbody>
</table>
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

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

An Important statement contains information essential to successfully completing a task or learning a concept.
Text and Command Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Usage</th>
</tr>
</thead>
</table>
| **Bold**   | ■ 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| ■ 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
Alipay Domestic Services

Initiate Payment Service

The initiate payment service illustrated in Figure 1 is described in detail below.

Figure 1  Initiate Payment Service

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.
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.

   CyberSource recommends that you detect the customer’s payment device and include the appropriate value in the \texttt{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 \texttt{ap\_initiate\_merchant\_url}, page 24.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alipay web site</td>
<td>mapi.alipay.com/gateway.do</td>
</tr>
<tr>
<td>Body</td>
<td>Description of the product purchased.</td>
</tr>
<tr>
<td>Notify URL</td>
<td>URL for displaying notifications after the transaction is processed.</td>
</tr>
<tr>
<td>Out trade no</td>
<td>Unique transaction ID.</td>
</tr>
<tr>
<td>Partner</td>
<td>Merchant ID for Alipay.</td>
</tr>
</tbody>
</table>
Chapter 1  Using Alipay Domestic Services

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.

Table 1  Merchant URL Parameters  (Continued)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payment type</td>
<td>The payment type used for the transaction. The value is 1.</td>
</tr>
<tr>
<td>Return URL</td>
<td>URL of the web page that is displayed to the customer when the transaction is complete.</td>
</tr>
<tr>
<td>Service</td>
<td>Alipay service name.</td>
</tr>
<tr>
<td>Subject</td>
<td>Product purchased by the customer.</td>
</tr>
<tr>
<td>Total fee</td>
<td>Grand total for the order.</td>
</tr>
<tr>
<td>Sign and sign type</td>
<td>Digital signature and type of signature used to verify the transaction information. The digital signature prevents data tampering.</td>
</tr>
<tr>
<td>Seller email</td>
<td>Merchant email address registered in the merchant Alipay account.</td>
</tr>
<tr>
<td>it_b_pay</td>
<td>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:</td>
</tr>
<tr>
<td></td>
<td>- 1c: the transaction expires at the end of the day (Chinese Standard Time)</td>
</tr>
<tr>
<td></td>
<td>- #d: minimum of 1 day to a maximum of 15 days</td>
</tr>
<tr>
<td></td>
<td>- ###h: maximum of 360 hours</td>
</tr>
<tr>
<td></td>
<td>- #####m: minimum of 5 minutes to a maximum of 21600 minutes</td>
</tr>
<tr>
<td></td>
<td>For example, it_b_pay=1.5h is not a valid value. The value must be an integer value of it_b_pay=90m.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Important  Contact CyberSource Customer Support to configure your transaction time-out settings.</td>
</tr>
</tbody>
</table>
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.

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**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.

---

**Supported Payment Types**

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

<table>
<thead>
<tr>
<th>Table 2</th>
<th>Supported Payment Types</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Payment Type</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Web Payment</td>
<td>The payment flow is optimized for a browser displayed on a personal computer or laptop. Include the APD value in the <code>ap_payment_type</code> request field for the Initiate Payment request, the follow-on Check Payment Status request, and the Refund request.</td>
</tr>
</tbody>
</table>

---

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).

---

**Note**

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**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.
Chapter 1 Using Alipay Domestic Services

Creating an Alipay Account

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.

Table 2 Supported Payment Types (Continued)

<table>
<thead>
<tr>
<th>Payment Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Payment</td>
<td>The payment flow is optimized for a browser displayed on a mobile device. 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.</td>
</tr>
</tbody>
</table>
Funding an Alipay Account

<table>
<thead>
<tr>
<th>Funding Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alipay online payment</td>
<td>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.</td>
</tr>
<tr>
<td>China Union Pay Debit Card Payment</td>
<td>All debit card transactions are processed in real time. Alipay accepts debit cards from more than 100 financial institutions.</td>
</tr>
<tr>
<td>Credit card (CUP card) payment</td>
<td>All credit card transactions are processed in real time. Internationally issued credit cards are not accepted for processing international transactions.</td>
</tr>
<tr>
<td>Offline payment</td>
<td>Alipay is partnered with the Chinese Postal ePost offices, enabling you to purchase products online or pay with cash at any ePost office.</td>
</tr>
<tr>
<td>Visa/MasterCard/JCB Card</td>
<td>All Visa/MasterCard/JCB credit and debit cards issued in China.</td>
</tr>
</tbody>
</table>

Alipay Supported Browsers

- Internet Explorer
- Sogou
- Maxthon
- Firefox
- Safari
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_return_url`
- `currency`—this value must be CNY. See "Request Fields," 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 27.
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`

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 23.

For detailed descriptions of all request and reply fields, see "API Fields," page 21. For a Check Status example, see page 29.

Refunding a Payment

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`

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.
Chapter 2  Processing Alipay Transactions

- `ap_initiate_request_id`—returned in the initiate payment service reply. See "Reply Fields," page 23.
- `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 30.

**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

To test Alipay services:

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

```html
<!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**

```
```

### 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>
<thead>
<tr>
<th>Initiate Payment Request API Field</th>
<th>Check Status Reply API Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>=666666666701</td>
<td>=COMPLETED</td>
</tr>
<tr>
<td>=666666666702</td>
<td>=PENDING</td>
</tr>
<tr>
<td>=666666666703</td>
<td>=ABANDONED</td>
</tr>
<tr>
<td>=666666666725</td>
<td></td>
</tr>
</tbody>
</table>
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:

---

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

<table>
<thead>
<tr>
<th>Refund Request API Field</th>
<th>Refund Reply API Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>grand_total_amount=10</td>
<td>ics_rflag=SOK</td>
</tr>
<tr>
<td>grand_total_amount=11</td>
<td>ics_rflag=DINVALIDATA</td>
</tr>
</tbody>
</table>
## Data Type Definitions

### Table 1  Data Type Definitions

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time</td>
<td>Format is YYYY-MM-DDThhmmssZ, where:</td>
</tr>
<tr>
<td></td>
<td>■ T separates the date and the time</td>
</tr>
<tr>
<td></td>
<td>■ Z indicates Coordinated Universal Time (UTC), also known as</td>
</tr>
<tr>
<td></td>
<td>Greenwich Mean Time (GMT)</td>
</tr>
<tr>
<td></td>
<td><strong>Example</strong> 2018-08-11T224757Z equals August 11, 2018, at 22:47:57</td>
</tr>
<tr>
<td></td>
<td>(10:47:57 p.m.)</td>
</tr>
<tr>
<td>Decimal</td>
<td>Number that includes a decimal point</td>
</tr>
<tr>
<td></td>
<td><strong>Example</strong> 23.45, -0.1, 4.0, 90809.0468</td>
</tr>
<tr>
<td>Integer</td>
<td>Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}</td>
</tr>
<tr>
<td>Nonnegative integer</td>
<td>Whole number greater than or equal to zero {0, 1, 2, 3, ...}</td>
</tr>
<tr>
<td>Positive integer</td>
<td>Whole number greater than zero {1, 2, 3, ...}</td>
</tr>
<tr>
<td>String</td>
<td>Sequence of letters, numbers, spaces, and special characters</td>
</tr>
</tbody>
</table>
# Request Fields

## Table 2  Request Fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ap_initiate_request_id</td>
<td>Identifier returned from the initiate payment service request.</td>
<td>Check Status (R)</td>
<td>String (26)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refund (R)</td>
<td></td>
</tr>
<tr>
<td>ap_initiate_product_description</td>
<td>Description of the product offered to the customer.</td>
<td>Initiate Payment (O)</td>
<td>String (255)</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong> If you are using Chinese characters, the maximum string length is shorter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ap_initiate_product_name</td>
<td>Product offered to the customer.</td>
<td>Initiate Payment (R)</td>
<td>String (105)</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong> If you are using Chinese characters, the maximum string length is shorter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ap_initiate_return_url</td>
<td>The web page to which the customer is directed when the transaction is complete.</td>
<td>Initiate Payment (O)</td>
<td>String (200)</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong> This URL overrides the URL that was specified when the merchant account was created.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ap_payment_type</td>
<td>Identifier for the payment type.</td>
<td>Initiate Payment (R)</td>
<td>String (3)</td>
</tr>
<tr>
<td></td>
<td>Values:</td>
<td>Check Status (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• APD: web payment</td>
<td>Refund (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• ADM: mobile payment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ap_refund_reason</td>
<td>Text describing the reason for the refund.</td>
<td>Refund (R)</td>
<td>String (100)</td>
</tr>
<tr>
<td>currency</td>
<td>Currency used for the order.</td>
<td>Initiate Payment (R)</td>
<td>String (10)</td>
</tr>
<tr>
<td></td>
<td>Value: CNY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>grand_total_amount</td>
<td>Grand total for the order. For more information about items and grand totals, see *Getting Started with CyberSource Advanced for the SCMP API (PDF</td>
<td>HTML)*.</td>
<td>Initiate Payment (R)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refund (R)</td>
<td></td>
</tr>
</tbody>
</table>
Table 2  Request Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ics_applications</td>
<td>CyberSource services to process for the request. Possible values:</td>
<td>Initiate Payment (R)</td>
<td>String (256)</td>
</tr>
<tr>
<td></td>
<td>- Initiate Payment Service: ics_ap_initiate</td>
<td>Check Status (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Check Status Service: ics_ap_check_status</td>
<td>Refund (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Refund Service: ics_ap_refund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>merchant_id</td>
<td>Your CyberSource merchant ID.</td>
<td>Initiate Payment (R)</td>
<td>String (50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check Status (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refund (R)</td>
<td></td>
</tr>
<tr>
<td>merchant_ref_number</td>
<td>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 Getting Started with CyberSource Advanced for the SCMP API (PDF</td>
<td>String (50)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Returned By</td>
<td>Data Type &amp; Length</td>
<td></td>
</tr>
</tbody>
</table>

Table 3  Reply Fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ap_check_status_payment_</td>
<td>Description of the payment status. Possible values:</td>
<td>Check Status</td>
<td>String (15)</td>
</tr>
<tr>
<td>status</td>
<td>- PENDING: Payment has not been processed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- COMPLETED: Payment is complete.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- ABANDONED: customer cancelled the payment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ap_check_status_processor_</td>
<td>Alipay unique identification for the check status service request.</td>
<td>Check Status</td>
<td>String (28)</td>
</tr>
<tr>
<td>transaction_id</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 3  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
</table>
| **ap_check_status_rcode**   | One-digit reply code that indicates whether the ics_ap_check_status request was successful. Possible values:  

- -1: An error occurred  
- 0: The request was declined  
- 1: The request was successful  

<table>
<thead>
<tr>
<th>Check Status</th>
<th>Integer (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_check_status_rflag</strong></td>
<td>One-word description of the result of the ics_ap_check_status request. See page 26.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Check Status</th>
<th>String (50)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_check_status_rmsg</strong></td>
<td>Message explaining the reply code ap_check_status_rflag.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Check Status</th>
<th>String (255)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_check_status_trans_ref_no</strong></td>
<td>Reference number that you use to reconcile your CyberSource reports with your Alipay reports. For more information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API (PDF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Check Status</th>
<th>String (32)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_initiate_merchant_url</strong></td>
<td>Redirect URL to the Alipay web site to confirm the transaction. See &quot;Merchant URL Parameters,&quot; page 9.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Initiate Payment</th>
<th></th>
</tr>
</thead>
</table>
| **ap_initiate_rcode**       | One-digit reply code that indicates whether the ics_ap_initiate request was successful. Possible values:  

- -1: An error occurred  
- 0: The request was declined  
- 1: The request was successful  

<table>
<thead>
<tr>
<th>Initiate Payment</th>
<th>Integer (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_initiate_rflag</strong></td>
<td>One-word description of the result of the ics_ap_initiate request. See page 26.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Initiate Payment</th>
<th>String (50)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_initiate_rmsg</strong></td>
<td>Message explaining the reply code ap_initiate_rflag.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Initiate Payment</th>
<th>String (255)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_initiate_trans_ref_no</strong></td>
<td>Reference number that you use to reconcile your CyberSource reports with your Alipay reports. For more information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API (PDF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Initiate Payment</th>
<th>String (32)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ap_refund_amount</strong></td>
<td>Total amount for the refund.</td>
</tr>
</tbody>
</table>

| Refund                      | String (15)                                                                |
### Table 3  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ap_refund_date_time</td>
<td>Date and time of the refund.</td>
<td>Refund</td>
<td>String (14)</td>
</tr>
</tbody>
</table>
| ap_refund_rcode          | One-digit reply code that indicates whether the refund request was successful. Possible values:  
  - -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 26.       | Refund      | String (50)        |
| ap_refund_rmsg           | Message explaining the reply code.                                          | Refund      | String (255)       |
| 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 Getting Started with CyberSource Advanced for the SCMP API (PDF | HTML). | Refund      | String (32)        |
| ics_rcode                | One-digit reply code that indicates whether the request was successful. Possible values:  
  - -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 26.              | Initiate Payment  
Check Status  
Refund | String (50)        |
| ics_rmsg                 | Message explaining the reply code.                                          | Initiate Payment  
Check Status  
Refund | String (255)       |
Table 3  Reply Fields (Continued)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Returned By</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>merchant_ref_number</td>
<td>Order reference or tracking number that you provided in the request. For more information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API (PDF</td>
<td>Initiate Payment</td>
<td>String (50)</td>
</tr>
<tr>
<td></td>
<td>(HTML).</td>
<td>Check Status</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refund</td>
<td></td>
</tr>
<tr>
<td>request_id</td>
<td>Identifier for the request generated by the client.</td>
<td>Initiate Payment</td>
<td>String (26)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check Status</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refund</td>
<td></td>
</tr>
</tbody>
</table>

---

**Reply Flags**

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

Table 4  Reply Flags

<table>
<thead>
<tr>
<th>Reply Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOK</td>
<td>Transaction was successful.</td>
</tr>
<tr>
<td>DINVALIDDATA</td>
<td>Data provided is not consistent with the request.</td>
</tr>
<tr>
<td>ESYSTEM</td>
<td>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).</td>
</tr>
</tbody>
</table>
Examples

Initiate Payment Example

Web Payment

<table>
<thead>
<tr>
<th>Example</th>
<th>Initiate Payment Request</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ics_applications=ics_ap_initiate</td>
</tr>
<tr>
<td></td>
<td>ap_payment_type=APD</td>
</tr>
<tr>
<td></td>
<td>merchant_id=Alipay</td>
</tr>
<tr>
<td></td>
<td>merchant_ref_number=482046C3A7E94F5BD1FE3C66C</td>
</tr>
<tr>
<td></td>
<td>ap_initiate_return_url=<a href="https://www.example.com">https://www.example.com</a></td>
</tr>
<tr>
<td></td>
<td>ap_initiate_product_name=Book</td>
</tr>
<tr>
<td></td>
<td>ap_initiate_product_description=Vintage</td>
</tr>
<tr>
<td></td>
<td>currency=CNY</td>
</tr>
<tr>
<td></td>
<td>grand_total_amount=60.00</td>
</tr>
<tr>
<td></td>
<td>ap_initiate_trans_ref_no=123456789</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Example</th>
<th>Initiate Payment Reply</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>request_id=123456789012932409425</td>
</tr>
<tr>
<td></td>
<td>ap_initiate_merchant_url=<a href="https://mapi.alipay.com/gateway.do?_input_charset=UTF-8&amp;body=Paperback&amp;it_b_pay=10d&amp;notify_url=https%3A%2F%2Fmapi.alipay.com&amp;out_trade_no=03GA0AO0MH6W&amp;partner=2088201564874477&amp;payment_type=1&amp;return_url=https%3A%2F%2Fmapi.alipay.com&amp;seller_email=alipay-test%40alipay.com&amp;service=create_direct_pay_by_user&amp;subject=A+Book&amp;total_fee=0.01&amp;sign=0ce499efb72647d79a23f211f14bbf9a&amp;sign_type=rsa">https://mapi.alipay.com/gateway.do?_input_charset=UTF-8&amp;body=Paperback&amp;it_b_pay=10d&amp;notify_url=https%3A%2F%2Fmapi.alipay.com&amp;out_trade_no=03GA0AO0MH6W&amp;partner=2088201564874477&amp;payment_type=1&amp;return_url=https%3A%2F%2Fmapi.alipay.com&amp;seller_email=alipay-test%40alipay.com&amp;service=create_direct_pay_by_user&amp;subject=A+Book&amp;total_fee=0.01&amp;sign=0ce499efb72647d79a23f211f14bbf9a&amp;sign_type=rsa</a></td>
</tr>
<tr>
<td></td>
<td>ap_initiate_rflag=SOK</td>
</tr>
<tr>
<td></td>
<td>ap_initiate_rmsg=The request was processed successfully.</td>
</tr>
<tr>
<td></td>
<td>ics_rflag=1</td>
</tr>
<tr>
<td></td>
<td>ics_rmsg=Request was processed successfully.</td>
</tr>
<tr>
<td></td>
<td>ap_initiate_trans_ref_no=123456789</td>
</tr>
<tr>
<td></td>
<td>merchant_ref_number=482046C3A7E94F5BD1FE3C66C</td>
</tr>
</tbody>
</table>
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%2Fgateway%2FAlipaydomestic%2FPayment%2F10441134016235000001737&out_trade_no=666666666701&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;subject=Book&totalfee=60.00&sign=FvtDde8AImHJoqKat%BhMu%2BH%2B048aFpiRa2SNF11CnnEpsb4a%2FggwMuPO7NPYXGk9OqNoUmL4eBIA%0D%0AcomOJ%2BMexFV91cXvTgYwGPtTomJSUizYH%2B9gduB9nIruY2ygPxz%2B8kKA9UA3BMJ067RLx%2FVVU%0D%0A0ArDb%2BIE2cuUKjBHVXc3lpgy2CQo46IEZVNQ2bsL4gV8If%2FYGOGliwmtX4qukJn3UH%2F6ywH%0D%0AAs6vKrZ%2BGS9iFuaBrHeqEQwOzuwh6V1Hb1Af%2F8Ltwrac3wSjirFX2lsrkHfRO8GWhHZU5Yqu02%0D%0A2F41nLq1cDwc8iljsSB9cP2nWjbaqm2Vv9oGk2%3D%3D&amp;sign_type=RSA
ap_initiate_rflag=SOK
ap_initiate_rmsg=The request was processed successfully.
ics_rmsg=Request was processed successfully.
ics_rcode=1

Example    Initiate Payment Request

merchent_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.
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_rflag=SOK |
| ap_refund_rmsg=Request was processed successfully. |
| ap_refund_return_ref=03GSI4L6302O |
| 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=03GSI4L63O20
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