Alipay International Services

Using the SCMP API

March 2019
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Recent Revisions to This Document

<table>
<thead>
<tr>
<th>Release</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2019</td>
<td>Added the following request fields. See &quot;Initiating a Payment,&quot; page 14, and &quot;Request Fields,&quot; page 23.</td>
</tr>
<tr>
<td></td>
<td>■ submerchant_id</td>
</tr>
<tr>
<td></td>
<td>■ submerchant_name</td>
</tr>
<tr>
<td></td>
<td>Added the following offer-level request fields. See &quot;Initiating a Payment,&quot; page 14, and &quot;Offer-Level Fields,&quot; page 24.</td>
</tr>
<tr>
<td></td>
<td>■ amount</td>
</tr>
<tr>
<td></td>
<td>■ merchant_product_sku</td>
</tr>
<tr>
<td></td>
<td>■ quantity</td>
</tr>
<tr>
<td></td>
<td>Updated initiate payment request examples. See &quot;Initiate Payment Examples,&quot; page 29.</td>
</tr>
<tr>
<td>January 2018</td>
<td>Updated the &quot;Supported Currencies and Amounts&quot; section. See page 13.</td>
</tr>
<tr>
<td>March 2017</td>
<td>Removed the &quot;Merchant Notifications&quot; section.</td>
</tr>
<tr>
<td></td>
<td>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 &quot;Merchant Notifications&quot; section. See page 11.</td>
</tr>
<tr>
<td>September 2015</td>
<td>Added the &quot;Supported Payment Types&quot; section. See page 11.</td>
</tr>
<tr>
<td></td>
<td>Added an important note regarding the ap_payment_type 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 16.</td>
</tr>
<tr>
<td></td>
<td>Added the mobile payment value AYM to the ap_payment_type request field. See page 23.</td>
</tr>
<tr>
<td></td>
<td>Added the “Mobile Payment” examples:</td>
</tr>
<tr>
<td></td>
<td>■ &quot;Initiate Payment Request,&quot; page 31.</td>
</tr>
<tr>
<td></td>
<td>■ &quot;Check Status Request,&quot; page 33.</td>
</tr>
<tr>
<td></td>
<td>■ &quot;Refund Request,&quot; page 35.</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 international payment solution enables 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 International Services

Initiate Payment Service

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

Figure 1  Initiate Payment Service

<table>
<thead>
<tr>
<th>Step</th>
<th>Customer</th>
<th>Merchant</th>
<th>CyberSource</th>
<th>AliPay</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clicks on AliPay payment option</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Posts data to CyberSource API</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Builds and returns redirect URL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Redirect customer to URL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Log in and confirms payment</td>
<td>Redirected</td>
<td>Stores payment status</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td>Confirms payment</td>
</tr>
</tbody>
</table>
Chapter 1 Using Alipay International Services

The Alipay international payments web site is a real-time payment solution enabling international 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: APY for a web payment (personal computer or laptop) or AYM 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, and the exchange rate are displayed. The payment is not visible to you as the merchant, and the customer can cancel without your knowledge.

6. Alipay accepts the payment request and sends payment notification to CyberSource that the payment is complete.

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 26.

Table 1  Merchant URL Parameters

<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>Currency</td>
<td>Currency used for the order.</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 International 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.

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

- Immediately
- 1 hour
- 4 hours
- 12 hours

If the payment status does not change to COMPLETED after 12 hours, do not send further payment requests. After 12 hours, the status changes to ABANDONED.

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.

- 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.

Important

Supported Payment Types

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

Table 2  Supported Payment Types

<table>
<thead>
<tr>
<th>Payment Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Payment</td>
<td>The payment flow is optimized for a browser displayed on a personal computer or laptop. Include the APY 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>
<tr>
<td>Mobile Payment</td>
<td>The payment flow is optimized for a browser displayed on a mobile device. Include the AYM 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>

Important

You must contact CyberSource Customer Support to enable your merchant account for RMB pricing.

RMB Pricing

As a merchant, you can offer to sell a product at a fixed RMB price and then settle the transaction in your specified settlement currency. The settlement currency must be supported by Alipay. See "Supported Currencies and Amounts," page 13. RMB pricing is available for the initiate payment service and the refund payment service.
Creating an Alipay Account

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

Important

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 23.

Funding an Alipay Account

Table 3 Funding Options

<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>
</tbody>
</table>
Chapter 1  Using Alipay International Services

Table 3  Funding Options (Continued)

<table>
<thead>
<tr>
<th>Funding Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>

Supported Currencies and Amounts

Table 4  Supported Currencies

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Currency</th>
<th>Decimal</th>
<th>Minimum Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUD</td>
<td>Australian dollar</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>CAD</td>
<td>Canadian dollar</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>CHF</td>
<td>Swiss franc</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>DKK</td>
<td>Danish krone</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>EUR</td>
<td>Euro</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>GBP</td>
<td>British pound sterling</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>HKD</td>
<td>Hong Kong dollar</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>JPY</td>
<td>Japanese yen</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>NOK</td>
<td>Norwegian krone</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>NZD</td>
<td>New Zealand dollar</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>SEK</td>
<td>Swedish krona</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>SGD</td>
<td>Singapore dollar</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>THB</td>
<td>Thai baht</td>
<td>2</td>
<td>0.01</td>
</tr>
<tr>
<td>USD</td>
<td>United States dollar</td>
<td>2</td>
<td>0.01</td>
</tr>
</tbody>
</table>

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`
- `ap_initiate_return_url`
- `amount`
- `merchant_product_sku`
- `quantity`
- `currency`
- `grand_total_amount`

**Step 3** Include the following optional fields when you do not have a contract with Alipay and you have an acquirer for funding:
- `submerchant_name`
- `submerchant_id`

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

For detailed descriptions of all request and reply fields, see "API Fields," page 22. For an Initiate Payment example, see "Initiate Payment Examples," page 29.
To initiate a payment with RMB pricing:

**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`

---

**Important**

Set the value of the `ap_payment_type` field to APY for a web payment or AYM 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`
- `amount`
- `merchant_product_sku`
- `quantity`
- `currency`
- `ap_settlement_currency`—see "RMB Pricing," page 11.
- `grand_total_amount`

**Step 3** Include the following optional fields when you do not have a contract with Alipay and you have an acquirer for funding:
- `submerchant_name`
- `submerchant_id`

For detailed descriptions of all request and reply fields, see "API Fields," page 22. For an Initiate Payment example, see "Initiate Payment Examples," page 29.

---

**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`
Chapter 2  Processing Alipay Transactions

- merchant_ref_number
- ap_payment_type

Important: Set the value of the **ap_payment_type** field to APY for a web payment or AYM for a mobile payment. This value must match the value used in the Initiate Payment request.

- ap_initiate_request_id (returned in the initiate payment service reply). See “Reply Fields,” page 25.

For detailed descriptions of all request and reply fields, see "API Fields," page 22. For a Check Status example, see page 32.

Refunding a 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 APY for a web payment or AYM for a mobile payment. This value must match the value used in the Initiate Payment request.

- ap_initiate_request_id
- ap_refund_reason
- currency
- grand_total_amount

For detailed descriptions of all request and reply fields, see "API Fields," page 22. For a Refund Payment example, see page 34.
To refund a payment using RMB pricing:

**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 APY for a web payment or AYM for a mobile payment. This value must match the value used in the Initiate Payment request.

---

- `ap_initiate_request_id`
- `ap_refund_reason`
- `currency`
- `ap_settlement_currency`—see "RMB Pricing," page 11.
- `grand_total_amount`

For detailed descriptions of all request and reply fields, see "API Fields," page 22. For a Refund Payment example, see page 34.

To refund a transaction using the Business Center:

**Step 1** In the left navigation panel, choose Transaction Search > General Search. The General Search page appears.

**Step 2** Check Search for an application or transaction type.

**Step 3** Select Alternative Payment Initiate.

**Step 4** 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 5** Click Search. The Transaction Search Results page appears.

**Step 6** Click the transaction request ID link. The Transaction Search Details page appears.

**Step 7** Under the heading Available Actions, click Refund. The Alipay Refund page appears.

**Step 8** Enter the refund amount.
Step 9  Enter a reason for the refund. This step is optional.

Step 10  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](https://ebc.cybersource.com)
- Test merchant transactions: [https://ebctest.cybersource.com](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.
CHAPTER 3

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:

```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. See "Initiating a Payment," page 14. 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 5.

Step 2  Request the check status service and include the request ID returned from the initiate payment request.

Table 5  Trigger Values

<table>
<thead>
<tr>
<th>Initiate Payment Request API Field</th>
<th>Check Status Reply API Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>=333333333401</td>
<td>=COMPLETED</td>
</tr>
<tr>
<td>=333333333402</td>
<td>=PENDING</td>
</tr>
<tr>
<td>=333333333403</td>
<td>=ABANDONED</td>
</tr>
<tr>
<td>=333333333429</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 19 triggers a specific error response.

---

**Important**

---

**Step 1**
Request the initiate payment service. See "Initiating a Payment," page 14.

**Step 2**
Request the refund service and include the request ID returned from the initiate payment request. See "Refunding a Payment," page 16. Include one of the following amounts in the refund request to receive the specific response.

**Table 6  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=DINVALIDDATA</td>
</tr>
</tbody>
</table>
## 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 Greenwich Mean Time (GMT)</td>
</tr>
<tr>
<td></td>
<td><strong>Example</strong> 2018-08-11T224757Z equals August 11, 2018, at 22:47:57 (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 8  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><code>ap_initiate_request_id</code></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><code>ap_initiate_product_description</code></td>
<td>Description of the product offered to the customer.</td>
<td>Initiate Payment (O)</td>
<td>String (65)</td>
</tr>
<tr>
<td><code>ap_initiate_product_name</code></td>
<td>Product offered to the customer.</td>
<td>Initiate Payment (R)</td>
<td>String (35)</td>
</tr>
<tr>
<td><code>ap_initiate_return_url</code></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><code>ap_payment_type</code></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>• APY: web payment</td>
<td>Refund (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• AYM: mobile payment</td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>ap_refund_reason</code></td>
<td>Text describing the reason for the refund.</td>
<td>Refund (R)</td>
<td>String (100)</td>
</tr>
<tr>
<td><code>ap_settlement_currency</code></td>
<td>Currency used for settling the transaction.</td>
<td>Initiate Payment (O)</td>
<td>String (10)</td>
</tr>
<tr>
<td></td>
<td>See &quot;RMB Pricing,&quot; page 11.</td>
<td>Refund (O)</td>
<td></td>
</tr>
<tr>
<td><code>currency</code></td>
<td>Currency used for the order.</td>
<td>Initiate Payment (R)</td>
<td>String (10)</td>
</tr>
<tr>
<td><code>grand_total_amount</code></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>String (10)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(HTML).</td>
<td>Initiate Payment (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refund (R)</td>
<td></td>
</tr>
<tr>
<td><code>ics_applications</code></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:</td>
<td>Check Status (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ics_ap_initiate</td>
<td>Refund (R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check Status Service:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ics_ap_check_status</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Refund Service:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ics_ap_refund</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Offer-Level Fields

Table 9  Offer-Level Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By: Required (R) or Optional (O)</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>amount</td>
<td>Per-item price of the product. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.</td>
<td>Initiate Payment (R)</td>
<td>Decimal (15)</td>
</tr>
<tr>
<td>merchant_product_sku</td>
<td>Identification code for the product.</td>
<td>Initiate Payment (R)</td>
<td>String (255)</td>
</tr>
</tbody>
</table>
 quantity: The default is 1. The maximum number of offers you can send is 5. If there are more than 5 items, send information for the first 5 items.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Used By:</th>
<th>Data Type &amp; Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>quantity</td>
<td>The default is 1. The maximum number of offers you can send is 5. If there are more than 5 items, send information for the first 5 items.</td>
<td>Initiate Payment (R)</td>
<td>Nonnegative integer (10)</td>
</tr>
</tbody>
</table>

**Reply Fields**

**Table 10 Reply Fields**

<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_payment_status | Description of the payment status. Possible values:  
- 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:  
-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 28. | Check Status | String (50) |
| ap_check_status_rmsg | Message explaining the reply code ap_check_status_rflag. | Check Status | String (255) |
## Table 10  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_check_status_trans_ref_no</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>
<td>Check Status</td>
<td>String (32)</td>
</tr>
<tr>
<td></td>
<td>HTML).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ap_initiate_merchant_url</td>
<td>Redirect URL to the Alipay website to confirm the transaction. See “Merchant URL Parameters,” page 9.</td>
<td>Initiate Payment</td>
<td></td>
</tr>
</tbody>
</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 | Initiate Payment| Integer (1)       |
| ap_initiate_rflag           | One-word description of the result of the ics_ap_initiate request. See page 28.                       | 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 Getting Started with CyberSource Advanced for the SCMP API (PDF | Initiate Payment| String (32)        |
|                             |  HTML).                                                                                                 |                |                    |
| 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:  
  -1: An error occurred  
  0: The request was declined  
  1: The request was successful | Refund         | Integer (1)       |


### Table 10  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_return_ref</td>
<td>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.</td>
<td>Refund</td>
<td>String (32)</td>
</tr>
<tr>
<td>ap_refund_rflag</td>
<td>One-word description of the result of the refund request. See page 28.</td>
<td>Refund</td>
<td>String (50)</td>
</tr>
<tr>
<td>ap_refund_rmsg</td>
<td>Message explaining the reply code.</td>
<td>Refund</td>
<td>String (255)</td>
</tr>
<tr>
<td>ap_refund_trans_ref_no</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>
<td>HTML).</td>
<td>Refund</td>
</tr>
</tbody>
</table>
| 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 28.             | Refund      | String (50)        |
| ics_rmsg                  | Message explaining the reply code.                                          | Refund      | String (255)       |
| merchant_ref_number       | 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 | HTML). | Refund      | String (50)        |
| request_id                | Identifier for the request generated by the client.                         | Refund      | String (26)        |
## Reply Flags

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

<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>
</tbody>
</table>
| ESYSTEM        | System error. You must design your transaction management system to correctly process CyberSource system errors.  
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 Examples

Web Payment

Example 2   Initiate Web Payment Request

ics_applications=ics_ap_initiate
ap_payment_type=APY
merchant_id=ni_Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_return_url=https://www.example.com
ap_initiate_product_name=Book
ap_initiate_product_description=Vintage
currency=USD
offer0=amount:20.00^merchant_product_sku:abc123^quantity:3
grand_total_amount=60.00

Example 3   Initiate Web Payment Reply

request_id=123456789012932409425
ap_initiate_merchant_url=https://mapi.alipay.com/
ap_initiate_rcode=1
ap_initiate_rflag=SOK
ap_initiate_rmsg=The request was processed successfully.
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
Example 4  Initiate Web Payment with RMB Pricing Request

ics_applications=ics_ap_initiate
ap_payment_type=APY
merchant_id=ni_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
ap_settlement_currency=USD
offer0=amount:20.00^merchant_product_sku:abc123^quantity:3
grand_total_amount=60.00

Example 5  Initiate Web Payment with RMB Pricing Reply

request_id=123456789012932409425
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 6  Initiate Payment Request**

ics_applications=ics_ap_initiate
ap_payment_type=AYM
merchant_id=npr_alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_product_name=Book
ap_initiate_product_description=Vintage
currency=usd
offer0=amount:20.00^merchant_product_sku:abc123^quantity:3
grand_total_amount=60.00

**Example 7  Initiate Payment Reply**

request_id=123456789012932409425
ap_initiate_merchant_url=https://mapi.alipay.com/gateway.do?_input_charset=UTF-8&body=Vintagen&amp;currency=USD&notify_url=https%3A%2F%2Fpnr.ic3.com%2Fpnr%2Fv1%2Fgateway%2Falipay%2Fpayment%2F104400859379605000001737&out_trade_no=333333333401&partner=2088101000922533&return_url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_return.jsp&amp;service=create_forex_trade_wap&amp;subject=Book&total_fee=100.00&amp;sign=FaiVy%2BEROisu%2FTN1L12B%2Bg%2F0rJ%2FMWdFq21S2F0m616S%2F1sEUxsF8og2ymCLk3wx8K4MPevMmNMk%0D%0AHcvzk%2FreHDojs02dq0Gcom%0D%0A6zbjXen%2BBnNhSLoEdUJ8%2B0i%3Eyw4AesvAT44k%2BuhpTCq4g%0D%0A98K%0D%0A0Adbq5CNkkuo$3Gbpqkr1%2BuLwkwNAITG0zaMmeoQdsO1SVUWQ1eYQ5a0Akc43dUZ5LBs%0D%0A2f2eWF0B%0D%0A2FzDn001KCyaxGCqmrWBa407WNibo180ZY18RVTke2NezaXqUQRf5q9%2Bugmo
scropRk%2FhjTrBNEvIW%0D%0A0hY0oIVKU8GK21z1CaXJoGya3xPiq75khX8YHA%3D%3D&a
mp;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 Examples

Web Payment

Example 8  Check Status Request
ics_applications=ics_ap_check_status
ap_payment_type=APY
merchant_id=ni_Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425

Example 9  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 10  Check Status Request

ics_applications=ics_ap_check_status
ap_payment_type=AYM
merchant_id=ni_Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425

Example 11  Check Status Reply

ap_check_status_payment_status=COMPLETED
ap_check_status_processor_transaction_id=2012011808153910
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
Appendix B  Examples

Refund Payment Examples

Web Payment

Example 12  Refund Request

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

Example 13  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_trans_ref_no=012345678901
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
request_id=123456789012932409425

Example 14  Refund with RMB Pricing Request

ics_applications=ics_ap_refund
ap_payment_type=APY
merchant_id=ni_Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425
ap_refund_reason=damaged goods
currency=CNY
ap_settlement_currency=USD
grand_total_amount=60.00
Appendix B  Examples

Example 15  Refund with RMB Pricing Reply

```plaintext
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 16  Refund Request

```plaintext
ics_applications=ics_ap_refund
ap_payment_type=AYM
merchant_id=ni_Alipay
merchant_ref_number=482046C3A7E94F5BD1FE3C66C
ap_initiate_request_id=123456789012932409425
ap_refund_reason=damaged goods
currency=USD
grand_total_amount=60.00
```

Example 17  Refund Reply

```plaintext
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
```
Example 18  Refund with RMB Pricing Request

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

Example 19  Refund with RMB Pricing Reply

ap_refund_amount=60.00
ap_refund_date_time=2012-07-16T085624Z
ap_refund_rcode=1
ap_refund_return_ref=03GSI4L6302O
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