Alipay International Services

Using the SCMP API

August 2019

CyberSource®

the power of payment

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Contents

Recent Revisions to This Document

Release	Changes
August 2019	Added information about multibyte character strings. See "Working with Mutltibyte Character Strings," page 23.
March 2019	Added the following request fields. See "Initiating a Payment," page 14, and "Working with Mutltibyte Character Strings," page 23. ■ submerchant_id ■ submerchant_name Added the following offer-level request fields. See "Initiating a Payment," page 14, and "Offer-Level Fields," page 25. ■ amount ■ merchant_product_sku ■ quantity Updated initiate payment request examples. See "Initiate Payment Examples," page 29.
January 2018	Updated the "Supported Currencies and Amounts" section. See page 13.
March 2017	Removed the "Merchant Notifications" section. Removed the link to the *New Business Center User Guide*.
May 2015	Updated the link to the *New Business Center User Guide*. See page 11.
October 2015	Added the "Merchant Notifications" section. See page 11.

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.

Note

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

Important

Text and Command Conventions

Convention	Usage
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

Using Alipay International Services

> ⚠️ **Important**
>
> All Alipay international 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 International Services

Initiate Payment Service

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

Figure 1   Initiate Payment Service
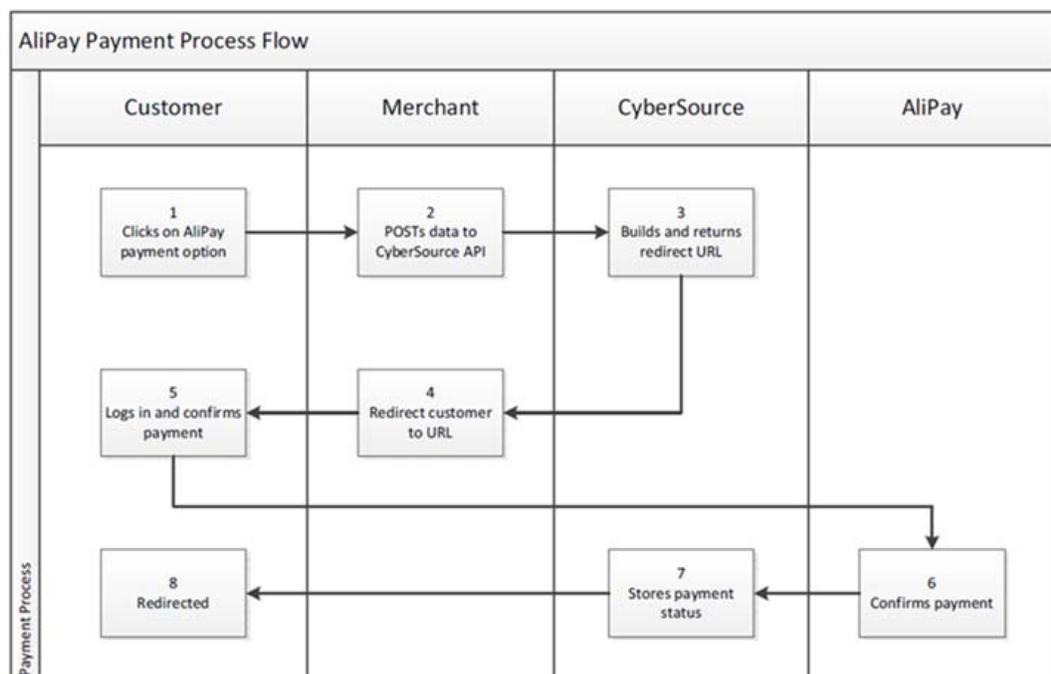
The Alipay international payments web site is a real-time payment solution enabling international merchants to trade in China. The payment process is as follows:

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. requested amount, 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

Parameter	Description
Alipay web site	mapi.alipay.com/gateway.do
Body	Description of the product purchased.
Currency	Currency used for the order.
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
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.

Check Status Service

> ⚠️
> **Important**
>
> 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.

> ✏️
> **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 International Services support two payment types: web payments and mobile payments.

Table 2   Supported Payment Types

Payment Type	Description
Web Payment	The payment flow is optimized for a browser displayed on a personal computer or laptop.
	Include the APY value in the **ap_payment_type** request field for the Initiate Payment request, the follow-on Check Payment Status request, and the Refund request.
Mobile Payment	The payment flow is optimized for a browser displayed on a mobile device.
	Include the AYM value in the **ap_payment_type** request field for the Initiate Payment request, the follow-on Check Payment Status request, and the Refund request.

RMB Pricing

⚠️ **Important**	You must contact CyberSource Customer Support to enable your merchant account for 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

![Important]
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 23.

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.

Table 3   Funding Options (Continued)

Funding Option	Description
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.

Supported Currencies and Amounts

Table 4   Supported Currencies

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

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**

> ⚠️ **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_product_description**—optional. See "Working with Mutltibyte Character Strings," page 23.
- **ap_initiate_return_url**
- **amount**
- **merchant_product_sku**
- **quantity**
- **currency**
- "Working with Mutltibyte Character Strings," page 23**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.

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_product_description**—optional. See "Working with Mutltibyte Character Strings," page 23.
- **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**
- **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 InitiatePayment 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
- 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

> ⚠️ **Important**
>
> 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. 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

```
https://mapi.alipay.com/gateway.do?_input_charset=UTF-
8&body=1+Lime+Green+Widget&currency=GBP&notify_
url=http%3A%2F%2Fwww.cybersource.com&out_trade_
no=SEE1Y0Z8T2GG&partner=2088101000922533&return_
url=http%3A%2F%2Flocalhost%2Fpay%2FAlipay_ return.jsp&service=create_
forex_trade&subject=The+Widget+Store&total_
fee=10.00&sign=f82cd981e47b0c380a7084aef25ff74f&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 5.

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

Table 5   Trigger Values

Initiate Payment Request API Field	Check Status Reply API Field
=333333333401	=COMPLETED
=333333333402	=PENDING
=333333333403	=ABANDONED
=333333333429	—

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 19 triggers a specific error response. |

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

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 7   Data Type Definitions

Data Type	Description
Date and time	Format is YYYY-MM-DDThhmmssZ, where: ■ T separates the date and the time ■ Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT) **Example** 2019-08-11T224757Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)
Decimal	Number that includes a decimal point **Example** 23.45, -0.1, 4.0, 90809.0468
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 Mutltibyte 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 8   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.	Initiate Payment (O)	String (65)
ap_initiate_product_name	Product offered to the customer.	Initiate Payment (R)	String (35)
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)
ap_payment_type	Identifier for the payment type. Values: ■ APY: web payment ■ AYM: 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)
ap_settlement_currency	Currency used for settling the transaction. See "RMB Pricing," page 11.	Initiate Payment (O) Refund (O)	String (10)

Table 8   Request Fields (Continued)

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
currency	Currency used for the order. See "Supported Currencies and Amounts," page 13.	Initiate Payment (R)	String (10)
grand_total_amount	Grand total for the order. For more information about items and grand totals, see *Getting Started with CyberSource Advanced for the SCMP API* (PDF | HTML).	Initiate Payment (R) Refund (R)	String (10)
ics_applications	CyberSource services to process for the request. Possible values: ■ 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 *Getting Started with CyberSource Advanced for the SCMP API* (PDF | HTML).	Initiate Payment (R) Check Status (R) Refund (R)	String (50)
submerchant_name	Sub-merchant's business name. **Note** CyberSource recommends sending this field when you do not have a contract with Alipay, and you have an acquirer for funding.	Initiate Payment (O)	String (64)
submerchant_id	The ID you assigned to your sub-merchant. **Note** CyberSource recommends sending this field when you do not have a contract with Alipay, and you have an acquirer for funding.	Initiate Payment (O)	String (64)

Offer-Level Fields

Table 9 Offer-Level Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
amount	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.	Initiate Payment (R)	Decimal (15)
merchant_product_sku	Identification code for the product.	Initiate Payment (R)	String (255)
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.	Initiate Payment (R)	Nonnegative integer (10)

Reply Fields

Table 10 Reply Fields

Field Name	Description	Returned By	Data Type & Length
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)

Table 10   Reply Fields (Continued)

Field Name	Description	Returned By	Data Type & Length
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)
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 *Getting Started with CyberSource Advanced for the SCMP API* (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	
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 | 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: ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful	Refund	Integer (1)

Table 10   Reply Fields (Continued)

Field Name	Description	Returned By	Data Type & Length
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 28.	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 28.	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 *Getting Started with CyberSource Advanced for the SCMP API* (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 11   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 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/
gateway.do?body=Vintage&currency=USD&notify_
url=http%3A%2F%2Fwww.cybersource.com&out_trade_
no=123456789&partner=2088101000922533&return_
url=http%3A%2F%2Fwww.example.com&service=create_forex_
trade&subject=Book&total_
fee=60.00&sign=26d23d6ed94c89784ee5b3d40334b576&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
```

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_merchant_url=http://mapi.alipay.com/
gateway.do?body=Vintage&currency=USD&notify_
url=http%3A%2F%2Fwww.cybersource.com&out_trade_
no=123456789&partner=2088101000922533&return_
url=http%3A%2F%2Fwww.example.com&service=create_forex_
trade&subject=Book&total_
fee=60.00&sign=26d23d6ed94c89784ee5b3d40334b576&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 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&amp;body=Vintagen&amp
;currency=USD&amp;notify_url=https%3A%2F%2Fpnr.ic3.com%2Fpnr%2Fv1
%2Fgateway%2Falipay%2Fpayment%2F104400859379605000001737&out_trade_
no=333333333401&amp;partner=2088101000922533&amp;return_
url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_return.jsp&amp;
service=create_forex_trade_wap&amp;subject=Book&amp;total_
fee=100.00&amp;sign=FaiVy%2BEROisu%2FTNTL12B%2Bg%2F80rJ%2FMWdFqZ1SZPxM6
16S%2FlsEUxsF8OgZymCLk3xw8K4MPevMmNMk%0D%0AHcvzk%2FreHDOjsOZdq0Gcom%2Ff
6zbjXen%2BBnNnSSLoEdUJ8v%2BWni38EyALesvAT44k%2BuhpTC4gt98K%0D%0Adbg5CNk
kUod3GpBkrlo%2BmuLWwkNAGTGOzaMmeoQdsO1SVUWQleYQ5a0Akc43dUZX5LBs%2Fd2eWF
0B%0D%0A%2FzDVnOO1KYCaxGCqmrWBa4O7WNibol80ZYI8RVTe2NezaXqUQRf5q9%2BugmO
sropRk%2FhjTrNBEvIW%0D%0AhY0oIVKU8GK21z1CaXJoGya3xPiqT5khhX8YHA%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_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 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_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
```

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
```

Example 15   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
```

Mobile Payment

Example 16   Refund 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=USD
grand_total_amount=60.00
```

Example 17   Refund 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
```

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
```