

Alipay Domestic Services

Using the Simple Order API

August 2019



CyberSource Contact Information

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

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

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

Copyright

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

Restricted Rights Legends

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

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 Unpublished rights reserved under the copyright laws of the United States.

Trademarks

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

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

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

Contents

Recent Revisions to This Document 5

About This Guide 6

Audience and Purpose 6

Conventions 6

 Note and Important Statements 6

 Text and Command Conventions 7

Related Documents 7

Customer Support 7

Chapter 1 Using Alipay Domestic Services 8

Alipay Domestic Services 8

 Initiate Payment Service 8

 Merchant URL Parameters 9

 Check Status Service 10

 Refund Payment Service 11

Supported Payment Types 11

Creating an Alipay Account 12

Funding an Alipay Account 13

Alipay Supported Browsers 13

Chapter 2 Processing Alipay Transactions 14

Initiating a Payment 14

Checking Payment Status 15

Refunding a Payment 15

Viewing Transactions in the Business Center 17

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

Appendix A	API Fields	21
	Working with Multibyte Character Strings	21
	Request Fields	21
	Reply Fields	24
	Reason Codes	26

Appendix B	Examples	27
	XML Examples	27
	Initiate Payment	27
	Web Payment	27
	Mobile Payment	28
	Check Status	29
	Web Payment	29
	Mobile Payment	30
	Refund	31
	Web Payment	31
	Mobile Payment	32
	Name-Value Pair Examples	33
	Initiate Payment	33
	Web Payment	33
	Mobile Payment	34
	Check Status	35
	Web Payment	35
	Mobile Payment	35
	Refund	36
	Web Payment	36
	Mobile Payment	37

Recent Revisions to This Document

Release	Changes
August 2019	Added information about multibyte character strings. See "Working with Multibyte Character Strings," page 21.
March 2019	This revision contains only editorial changes and no technical updates.
March 2017	Removed the "Merchant Notifications" section. Removed the link to the <i>New Business Center User Guide</i> .
May 2015	Updated the link to the <i>New Business Center User Guide</i> . See page 11.
October 2015	Added the "Merchant Notifications" section.
September 2015	<p>Added the "Supported Payment Types" section. See page 11.</p> <p>Added an important note regarding the apPaymentType request field to the following sections:</p> <ul style="list-style-type: none"> ■ "Initiating a Payment," page 14. ■ "Checking Payment Status," page 15. ■ "Refunding a Payment," page 15. <p>Added the mobile payment value ADM to the apPaymentType request field. See page 23.</p> <p>Added the "Mobile Payment" XML examples:</p> <ul style="list-style-type: none"> ■ "Initiate Payment," page 27. ■ "Check Status," page 29. ■ "Refund," page 31. <p>Added the "Mobile Payment" Name-Value Pair examples:</p> <ul style="list-style-type: none"> ■ "Initiate Payment," page 33. ■ "Check Status," page 35. ■ "Refund," page 36.

About This Guide

Audience and Purpose

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

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

Conventions

Note and Important Statements



Note

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



Important

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

Text and Command Conventions

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

Related Documents

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

Refer to the Support Center for complete CyberSource technical documentation:

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

Customer Support

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

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

Using Alipay Domestic Services



Important

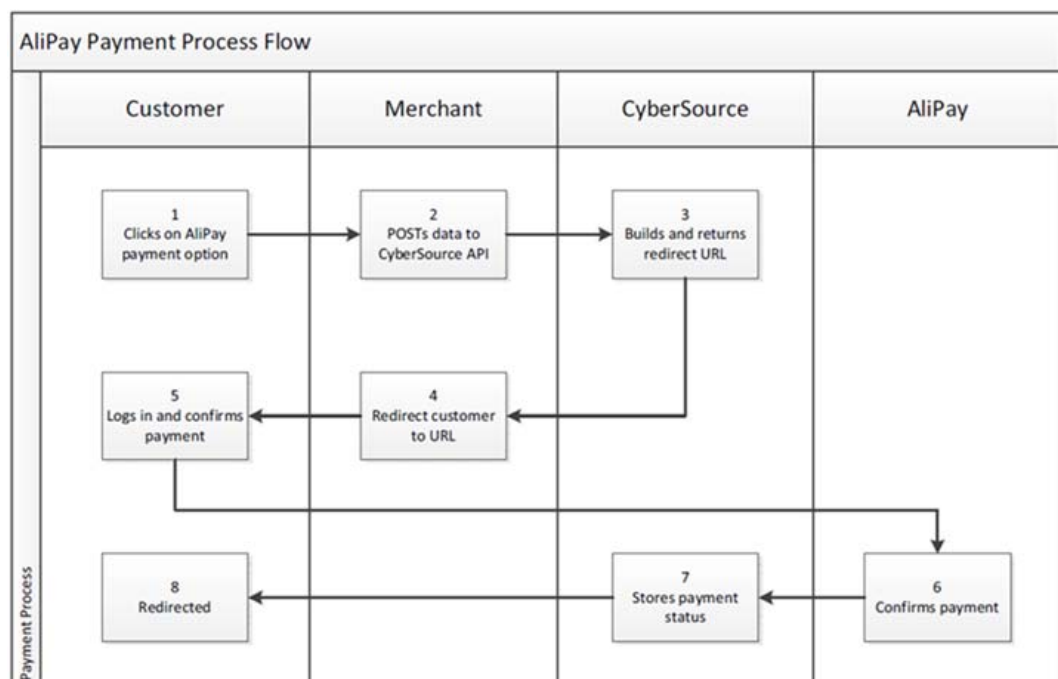
All Alipay domestic payments are processed in Renminbi (RMB). You must capture the required billing and shipping information as part of the checkout process. Alipay does not provide this information to merchants. Alipay monitors their systems for problems; however, CyberSource recommends that you monitor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

Alipay Domestic Services

Initiate Payment Service

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

Figure 1 Initiate Payment Service



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

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



Important

CyberSource recommends that you detect the customer's payment device and include the appropriate value in the **apPaymentType** 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 [apInitiateReply_merchantURL](#), page 24.

Table 1 Merchant URL Parameters

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

Table 1 Merchant URL Parameters (Continued)

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

Check Status Service



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

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

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

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

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



Note

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

Refund Payment Service

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



Important

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

Supported Payment Types

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

Table 2 Supported Payment Types

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

Table 2 Supported Payment Types (Continued)

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

Creating an Alipay Account



Important

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

To create an Alipay account:

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

Funding an Alipay Account

Table 3 Funding Options

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

Alipay Supported Browsers

- Internet Explorer
- Sogou
- Maxthon
- Firefox
- Safari

Processing Alipay Transactions

Initiating a Payment

To initiate a payment:

Step 1 Set the `apInitiateService_run` field to `true`.

Step 2 Include the following fields in the request:

- `merchantID`
- `merchantReferenceCode`
- `apPaymentType`



Set the value of the `apPaymentType` 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.

- `apInitiateService_productName`
- `apInitiateService_productDescription`—optional. See ["Working with Multibyte Character Strings," page 22](#) ["Working with Multibyte Character Strings," page 21](#).
- `apInitiateService_returnURL`
- `purchaseTotals_currency`—this value must be CNY. See ["Working with Multibyte Character Strings," page 22](#) ["Working with Multibyte Character Strings," page 21](#).
- `purchaseTotals_grandTotalAmount`

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 **apCheckStatusService** field to **true**.

Step 2 Include the following fields in the request:

- **merchantID**
- **merchantReferenceCode**
- **apPaymentType**



Important

Set the value of the **apPaymentType** 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.

- **apCheckStatusService_apInitiateRequestID**—returned in the initiate payment service reply. See ["Reply Fields," page 24](#).

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

Refunding a Payment



Important

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

To refund a payment:

Step 1 Set the **apRefundService_run** field to **true**.

Step 2 Include the following fields in the request:

- **merchantID**
- **merchantReferenceCode**
- **apPaymentType**



Important

Set the value of the **apPaymentType** 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.

- **apRefundService_requestID**—returned in the initiate payment service reply. See "Reply Fields," page 24.
- **apRefundService_reason**
- **purchaseTotals_currency**
- **purchaseTotals_grandTotalAmount**

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

To refund a transaction using the Business Center:

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

Viewing Transactions in the Business Center

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

To find and view a transaction:

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

Testing Alipay Services



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

To test Alipay services:

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

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

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

- Step 2** Save the Alipay simulator file on your web server.
- Step 3** Send an initiate payment service request. Use the test URL:
<https://ics2wstesta.ic3.com/commerce/1.x/transactionProcessor>
- Step 4** Edit the **apInitiateReply_merchantURL** information in the response field to redirect to the Alipay simulator. Replace `https://mapi.alipay.com/gateway.do` with the location of the simulator file that you saved on your web server.

Example 1 Merchant URL Response Information

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

Simulating Response Messages

Check Status Response

By including a predetermined value in the **apInitiateService_reconciliationID** 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 reconciliation id numbers in the request for the appropriate response. See [Table 4](#).
- Step 2** Request the check status service and include the request ID returned from the initiate payment request.

Table 4 Trigger Values

Initiate Payment Request API Field	Check Status Reply API Field	reasonCode
apInitiateService_reconciliationID=666666666701	apCheckStatusReply_paymentStatus=COMPLETED	100
apInitiateService_reconciliationID=666666666702	apCheckStatusReply_paymentStatus=PENDING	100

Table 4 Trigger Values (Continued)

Initiate Payment Request API Field	Check Status Reply API Field	reasonCode
apInitiateService_ reconciliationID=666666666703	apCheckStatusReply_ paymentStatus=ABANDONED	100
apInitiateService_ reconciliationID=666666666725	—	102

Refund Response

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

To simulate a refund payment response:



Important

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

- Step 1** Request the initiate payment service (see [page 14](#)) and include the **apInitiateService_reconciliationID** field in the request. Set the **apInitiateService_reconciliationID** field to 666666666702 (see [Table 4, 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 5 Refund Amount Trigger Values

Refund Request API Field	Refund Reply API Field
purchaseTotals_grandTotalAmount=10	decision=ACCEPT
purchaseTotals_grandTotalAmount=11	decision=REJECT

API Fields

Working with Multibyte Character Strings

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

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



Important

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

Request Fields

For more information about these data types, see the [World Wide Web Consortium \(W3C\) XML Schema Part 2: Datatypes Second Edition](#).

Table 6 Data Type Definitions

Data Type	Description
Date and time	Format is YYYY-MM-DDThh:mm:ssZ, where: <ul style="list-style-type: none"> ■ T separates the date and the time ■ Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT) <p>Example 2019-08-11T22:47:57Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.).</p>
Integer	Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}
String	Sequence of letters, numbers, spaces, and special characters

Table 7 Request Fields

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
apCheckStatusService_ apInitiateRequestID	Identifier returned from the initiate payment service request.	Check Status (R)	String (32)
apCheckStatusService_run	The check status service. Possible values: <ul style="list-style-type: none"> ■ true: Include the service in your request. ■ false (default): Do not include the service in your request. 	Check Status (R)	String (5)
apInitiateService_ productDescription	Description of the product offered to the customer. Important If you are using Chinese characters, the maximum string length is shorter.	Initiate Payment (O)	String (255)
apInitiateService_productName	Product offered to the customer. Important If you are using Chinese characters, the maximum string length is shorter.	Initiate Payment (R)	String (105)
apInitiateService_returnURL	URL of the web page to which the customer is directed when the transaction is completed. Important This URL overrides the URL that was set up when the merchant account was created.	Initiate Payment (O)	String (200)
apInitiateService_run	The initiate payment service. Possible values: <ul style="list-style-type: none"> ■ true: Include the service in your request. ■ false (default): Do not include the service in your request. 	Initiate Payment (R)	String (5)
apRefundService_run	The refund payment service. Possible values: <ul style="list-style-type: none"> ■ true: Include the service in your request. ■ false (default): Do not include the service in your request. 	Refund (R)	String (5)

Table 7 Request Fields (Continued)

Field Name	Description	Used By: Required (R) or Optional (O)	Data Type & Length
apRefundService_ apInitiateRequestID	Identifier returned from the initiate payment service request.	Refund (R)	String (26)
apRefundService_reason	Text describing the reason for the refund.	Refund (R)	String (100)
apRefundService_returnRef	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 generates a refund return reference number if this field is not populated.	Refund (R)	String (32)
apPaymentType	Identifier for the payment type. Values: <ul style="list-style-type: none"> ■ APD: web payment ■ ADM: mobile payment 	Initiate Payment (R) Check Status (R) Refund (R)	String (3)
merchantID	Your CyberSource merchant ID.	Initiate Payment (R) Check Status (R) Refund (R)	String (50)
merchantReferenceCode	Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the Simple Order API</i> (PDF HTML).	Initiate Payment (R) Check Status (R) Refund (R)	String (50)
purchaseTotals_currency	Currency used for the order. Value: CNY	Initiate Payment (R) Refund (R)	String (10)
purchaseTotals_ grandTotalAmount	Grand total for the order. For information about items and grand totals, see <i>Getting Started with CyberSource Advanced for the Simple Order API</i> (PDF HTML).	Initiate Payment (R) Refund (R)	String (10)

Reply Fields

Table 8 Reply Fields

Field Name	Description	Returned By	Data Type & Length
apCheckStatusReply_reasonCode	Numeric value corresponding to the result of the apCheckStatusService_run request. See " Reason Codes ," page 26 .	Check Status	Integer (5)
apCheckStatusReply_reconciliationID	Reference number that you use to reconcile your CyberSource reports with your AliPay reports. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the Simple Order API</i> (PDF HTML).	Check Status	String (32)
apCheckStatusReply_paymentStatus	Description of the payment status. Possible values: <ul style="list-style-type: none"> ■ PENDING: Payment has not been processed. ■ COMPLETED: Payment is complete. ■ ABANDONED: Customer cancelled the payment. 	Check Status	String (15)
apCheckStatusReply_processorTransactionID	AliPay unique identification for the check status service request.	Check Status	String (28)
apInitiateReply_merchantURL	Redirect URL to the AliPay web site to confirm the transaction. See " Merchant URL Parameters ," page 9 .	Initiate Payment	
apInitiateReply_reasonCode	Numeric value corresponding to the result of the apInitiateService_run request.	Initiate Payment	Integer (5)
apInitiateReply_reconciliationID	Reference number that you use to reconcile your CyberSource reports with your AliPay reports. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the Simple Order API</i> (PDF HTML).	Initiate Payment	String (32)

Table 8 Reply Fields (Continued)

Field Name	Description	Returned By	Data Type & Length
decision	One-word description of the request result.	Initiate Payment Check Status Refund	String (50)
merchantReferenceCode	Order reference or tracking number that you provided in the request. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the Simple Order API</i> (PDF HTML).	Initiate Payment Check Status Refund	String (50)
reasonCode	Numeric value corresponding to the result of the request. See "Reason Codes," page 26 .	Initiate Payment Check Status Refund	Integer (5)
request_id	Identifier for the request generated by the client.	Initiate Payment Check Status Refund	String (32)
purchaseTotals_currency	Currency used for the order. See "Alipay Supported Browsers," page 13 .	Initiate Payment Check Status Refund	String (10)
apRefundReply_returnRef	Reference for the refund. CyberSource generates a the reference if this field is not populated.	Refund	String (32)
apRefundReply_reasonCode	Numeric value corresponding to the result of the apRefundService_run request.	Refund	Integer (5)
apRefundReply_reconciliationID	Reference number that you use to reconcile your CyberSource reports with your AliPay reports. For more information about tracking orders, see <i>Getting Started with CyberSource Advanced for the Simple Order API</i> (PDF HTML).	Refund	String (32)
apRefundReply_dateTime	Date and time of refund. It is Beijing time. Format: YYYYMMDDHHMMSS	Refund	String (14)
apRefundReply_amount	The total refund amount.	Refund	Numeric (15)

Reason Codes

Reason Code	Description
100	Accept.
101	Reject:
102	■ One or more required fields in the request are missing.
233	■ One or more fields in the request contain invalid information. ■ General decline by the processor.
150	Error. Possible error: payment processor error due a non-existent transaction (TRADE_NOT_EXIST).

Examples

XML Examples

Initiate Payment

Web Payment

Example 2 Initiate Payment Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>AliPay</merchantID>
  <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
  <purchaseTotals>
    <currency>CNY</currency>
    <grandTotalAmount>60.00</grandTotalAmount>
  </purchaseTotals>
  <apPaymentType>APD</apPaymentType>
  <apInitiateService run="true">
    <returnURL>http://www.example.com</returnURL>
    <productName>Book</productName>
    <productDescription>Vintage</productDescription>
    <reconciliationID>123456789</reconciliationID>
  </apInitiateService>
</requestMessage>
```

Example 3 Initiate Payment Reply

```

<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
  <c:requestID>3305996802900168624917</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:apInitiateReply>
    <c:merchantURL><https://mapi.aliPay.com/gateway.do?_input_charset=UTF-
      8&body=Science+Fiction&it_b_pay=10d&notify_
      url=https%3A%2F%2Falipay.cybersource.com&out_trade_
      no=12345678901234567890123456789012&partner=2088201564874474
      &payment_type=1&return_url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_
      return.jsp&seller_email=alipay-test%40alipay.com&service=
      create_direct_pay_by_user&subject=Book&total_
      fee=0.01&sign=989338fdb4bab91fdf43a53f718991b&sign_type=MD5>
    </c:merchantURL>
    <reconciliationID>123456789</reconciliationID>
    <c:reasonCode>100</c:reasonCode>
  </c:apInitiateReply>
</c:replyMessage>

```

Mobile Payment

Example 4 Initiate Payment Request

```

<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>AliPay</merchantID>
  <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
  <purchaseTotals>
    <currency>CNY</currency>
    <grandTotalAmount>60.00</grandTotalAmount>
  </purchaseTotals>
  <apPaymentType>ADM</apPaymentType>
  <apInitiateService run="true">
    <returnURL>http://www.example.com</returnURL>
    <productName>Book</productName>
    <productDescription>Vintage</productDescription>
    <reconciliationID>123456789</reconciliationID>
  </apInitiateService>
</requestMessage>

```

Example 5 Initiate Payment Reply

```

<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
  <c:requestID>3305996802900168624917</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:apInitiateReply>
    <c:merchantURL>https://mapi.alipay.com/gateway.do?_input_charset=UTF-
      8&amp;body=Vintage&amp;notify_
      url=https%3A%2F%2Fpnr.ic3.com%2Fpnr%2Fv1%2Fgateway%2Falipaydomestic%2Fpayment%
      2F10441134016243500001737&amp;out_trade_
      no=66666666701&amp;partner=2088201564874474&amp;payment_type=1&amp;return_
      url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_return.jsp&amp;seller_
      id=2088201564874474&amp;service=alipay.wap.create.direct.pay.by.user&amp;subje
      ct=Book&amp;totalfee=60.00&amp;sign=FvtDde8AImHJOGkat%2BhMu%2BH%2B048aFpiRa25N
      F1ICnnEpsb4a%2FgqwMuPQ7NPYXGk9OqNoUmL4eBIA%0D%0Aoom0J%2BMexPV9IcXvtTgYwGPrTomJ
      sGUiZyH%2B9gduB9nIruY2ygPxz%2B8kKA9UA3BMJ067RLx7%2FVVU%0D%0ArDb%2BIEZcluUKjBVH
      Xc3lpgyZCQo46IEZVNQZbsL4gV8pIF%2FYGOGliwmtX4qukIUneW39U1B%2F6yGH%0D%0AsS6vKrZ%
      2BGS9iFuaBrHekEQw0ZuwH6VlHblAf%2F8Ltwrac3wrSJirFXZ1srkHfRE08GWkHZU5YquO2%0D%0A
      %2F4lnLq1cDwc8iljsSB9cP2nWjbaqm2Vv9oGk2w%3D%3D&amp;sign_type=RSA
    </c:merchantURL>
    <reconciliationID>123456789</reconciliationID>
    <c:reasonCode>100</c:reasonCode>
  </c:apInitiateReply>
</c:replyMessage>

```

Check Status

Web Payment

Example 6 Check Status Request

```

<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>AliPay</merchantID>
  <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
  <apPaymentType>APD</apPaymentType>
  <apCheckStatusService run="true">
    <apInitiateRequestID>123456789012932409425</apInitiateRequestID>
  </apCheckStatusService>
</requestMessage>

```

Example 7 Check Status Reply

```

<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
  <c:requestID>123456789012932409425</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:apCheckStatusReply>
    <reconciliationID>123456789</reconciliationID>
    <c:reasonCode>100</c:reasonCode>
    <c:paymentStatus>COMPLETED</c:paymentStatus>
    <c:processorTransactionID>2012011808152910</c:processorTransactionID>
  </c:apCheckStatusReply>
</c:replyMessage>

```

Mobile Payment

Example 8 Check Status Request

```

<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>AliPay</merchantID>
  <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
  <apPaymentType>ADM</apPaymentType>
  <apCheckStatusService run="true">
    <apInitiateRequestID>123456789012932409425</apInitiateRequestID>
  </apCheckStatusService>
</requestMessage>

```

Example 9 Check Status Reply

```

<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
  <c:requestID>123456789012932409425</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:apCheckStatusReply>
    <reconciliationID>123456789</reconciliationID>
    <c:reasonCode>100</c:reasonCode>
    <c:paymentStatus>COMPLETED</c:paymentStatus>
    <c:processorTransactionID>2012011808152910</c:processorTransactionID>
  </c:apCheckStatusReply>
</c:replyMessage>

```

Refund

Web Payment

Example 10 Refund Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>ni_AliPay</merchantID>
  <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
  <purchaseTotals>
    <currency>CNY</currency>
    <grandTotalAmount>60.00</grandTotalAmount>
  </purchaseTotals>
  <apPaymentType>APD</apPaymentType>
  <apRefundService run="true">
    <apInitiateRequestID>3305996802900168624917</apInitiateRequestID>
    <reason>Damaged Goods</reason>
    <returnRef>123456789</returnRef>
  </apRefundService>
</requestMessage>
```

Example 11 Refund Reply

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
  <c:requestID>3305996802900168624917</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <purchaseTotals>
    <currency>CNY</currency>
    <grandTotalAmount>60.00</grandTotalAmount>
  </purchaseTotals>
  <c:apRefundReply>
    <reconciliationID>123456789</reconciliationID>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>60.00</c:amount>
    <c:dateTime>2012-07-16T08:56:33Z</c:dateTime>
    <c:returnRef>123456789</c:returnRef>
  </c:apRefundReply>
</c:replyMessage>
```

Mobile Payment

Example 12 Refund Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.86">
  <merchantID>ni_AliPay</merchantID>
  <merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</merchantReferenceCode>
  <purchaseTotals>
    <currency>CNY</currency>
    <grandTotalAmount>60.00</grandTotalAmount>
  </purchaseTotals>
  <apPaymentType>ADM</apPaymentType>
  <apRefundService run="true">
    <apInitiateRequestID>3305996802900168624917</apInitiateRequestID>
    <reason>Damaged Goods</reason>
    <returnRef>123456789</returnRef>
  </apRefundService>
</requestMessage>
```

Example 13 Refund Reply

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.86">
  <c:merchantReferenceCode>482046C3A7E94F5BD1FE3C66C</c:merchantReferenceCode>
  <c:requestID>3305996802900168624917</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <purchaseTotals>
    <currency>CNY</currency>
    <grandTotalAmount>60.00</grandTotalAmount>
  </purchaseTotals>
  <c:apRefundReply>
    <reconciliationID>123456789</reconciliationID>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>60.00</c:amount>
    <c:dateTime>2012-07-16T08:56:33Z</c:dateTime>
    <c:returnRef>123456789</c:returnRef>
  </c:apRefundReply>
</c:replyMessage>
```

Name-Value Pair Examples

Initiate Payment

Web Payment

Example 14 Initiate Payment Request

```
merchantID=AliPay
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
purchaseTotals_currency=CNY
purchaseTotals_grandTotalAmount=60.00
apPaymentType=APD
apInitiateService_run=true
apInitiateService_returnURL=www.example.com
apInitiateService_productName=Book
apInitiateService_productDescription=Vintage
apInitiateService_reconciliationID=123456789
```

Example 15 Initiate Payment Reply

```
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=3305996802900168624917
decision=ACCEPT
reasonCode=100
apInitiateReply_merchantURL=https://mapi.aliPay.com/gateway.do?_input_
charset=UTF-8&body=Science+Fiction&it_b_pay=10d&notify_
url=https%3A%2F%2Falipay.cybersource.com&out_trade_
no=12345678901234567890123456789012&partner=2088201564874474
&payment_type=1&return_url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_
return.jsp&seller_email=alipay-test%40alipay.com&service=
create_direct_pay_by_user&subject=Book&total_
fee=0.01&sign=989338fdb4bab91fdf43a53f718991b&sign_type=MD5
apInitiateReply_reconciliationID=123456789
apInitiateReply_reasonCode=100
```

Mobile Payment

Example 16 Initiate Payment Request

```

merchantID=AliPay
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
purchaseTotals_currency=CNY
purchaseTotals_grandTotalAmount=60.00
apPaymentType=ADM
apInitiateService_run=true
apInitiateService_returnURL=www.example.com
apInitiateService_productName=Book
apInitiateService_productDescription=Vintage
apInitiateService_reconciliationID=123456789

```

Example 17 Initiate Payment Reply

```

merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=3305996802900168624917
decision=ACCEPT
reasonCode=100
apInitiateReply_merchantURL=https://mapi.alipay.com/gateway.do?_input_
charset=UTF-8&body=Vintage&notify_
url=https%3A%2F%2Fpnr.ic3.com%2Fpnr%2Fv1%2Fgateway%2Falipaydomestic%2Fp
ayment%2F10441134016243500001737&out_trade_
no=66666666701&partner=2088201564874474&payment_
type=1&return_url=http%3A%2F%2Flocalhost%2Fpay%2Falipay_
return.jsp&seller_id=2088201564874474&service=alipay.
wap.create.direct.pay.by.user&subject=Book&totalfee=60.00&sign=FvtDde8AImHJOgKat%2BhMu%2BH%2B048aFpiRa25NF1ICnnEpsb4a%2FgqwMuPQ7NP
YXGk9OqNoUmL4eBIA%0D%0Aoom0J%2BMexPV9IcXvtTgYwGPrTomJsGuiZYH%2B9gduB9nI
ruY2ygPxz%2B8kKA9UA3BMJ067RLx7%2FVVU%0D%0ArDb%2BIEZcluUKjBVHxc3lpgyZCQo
46IEZVNQZbsL4gV8pIF%2FYGOG1iwmtX4qukiUneW39U1B%2F6yGH%0D%0AsS6vKrZ%2BGS
9iFuaBrHekEQw0ZuwH6VlHb1Af%2F8Ltwrac3wrSJirFXZ1srkHfREO8GwkHZU5YquO2%0D
%0A %2F41nLq1cDWc8iljsSB9cP2nWjbaqm2Vv9oGk2w%3D%3D&sign_type=RSA
apInitiateReply_reconciliationID=123456789
apInitiateReply_reasonCode=100

```

Check Status

Web Payment

Example 18 Check Status Request

```

merchantID=AliPay
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
apPaymentType=APD
apCheckStatusService_run=true
apCheckStatusService_apInitiateRequestID=3305996802900168624917

```

Example 19 Check Status Reply

```

decision=ACCEPT
requestID=3305996802900168624917
reasonCode=100
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
apCheckStatusReply_paymentStatus=COMPLETED
apCheckStatusReply_reasonCode=100
apCheckStatusReply_reconciliationID=123456789
apCheckStatusReply_processorTransactionID=2012011808152910

```

Mobile Payment

Example 20 Check Status Request

```

merchantID=AliPay
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
apPaymentType=ADM
apCheckStatusService_run=true
apCheckStatusService_apInitiateRequestID=3305996802900168624917

```

Example 21 Check Status Reply

```

decision=ACCEPT
requestID=3305996802900168624917
reasonCode=100
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
apCheckStatusReply_paymentStatus=COMPLETED
apCheckStatusReply_reasonCode=100
apCheckStatusReply_reconciliationID=123456789
apCheckStatusReply_processorTransactionID=2012011808152910

```

Refund

Web Payment

Example 22 Refund Request

```
merchantID=ni_AliPay
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
purchaseTotals_currency=CNY
purchaseTotals_grandTotalAmount=60.00
apPaymentType=APD
apRefundService_run=true
apRefundService_apInitiateRequestID=3305996802900168624917
apRefundService_reason=Damaged Goods
apRefundService_returnRef=123456789
```

Example 23 Refund Reply

```
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
requestID=3305996802900168624917
decision=ACCEPT
reasonCode=100
purchaseTotals_currency=CNY
purchaseTotals_grandTotalAmount=60.00
apRefundReply_reconciliationID=123456789
apRefundReply_reasonCode=100
apRefundReply_amount=60.00
apRefundReply_dateTime=2012-07-16T08:56:33Z
apRefundReply_returnRef=123456789
```

Mobile Payment

Example 24 Refund Request

```
merchantID=ni_AliPay  
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C  
purchaseTotals_currency=CNY  
purchaseTotals_grandTotalAmount=60.00  
apPaymentType=ADM  
apRefundService_run=true  
apRefundService_apInitiateRequestID=3305996802900168624917  
apRefundService_reason=Damaged Goods  
apRefundService_returnRef=123456789
```

Example 25 Refund Reply

```
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C  
requestID=3305996802900168624917  
decision=ACCEPT  
reasonCode=100  
purchaseTotals_currency=CNY  
purchaseTotals_grandTotalAmount=60.00  
apRefundReply_reconciliationID=123456789  
apRefundReply_reasonCode=100  
apRefundReply_amount=60.00  
apRefundReply_dateTime=2012-07-16T08:56:33Z  
apRefundReply_returnRef=123456789
```
