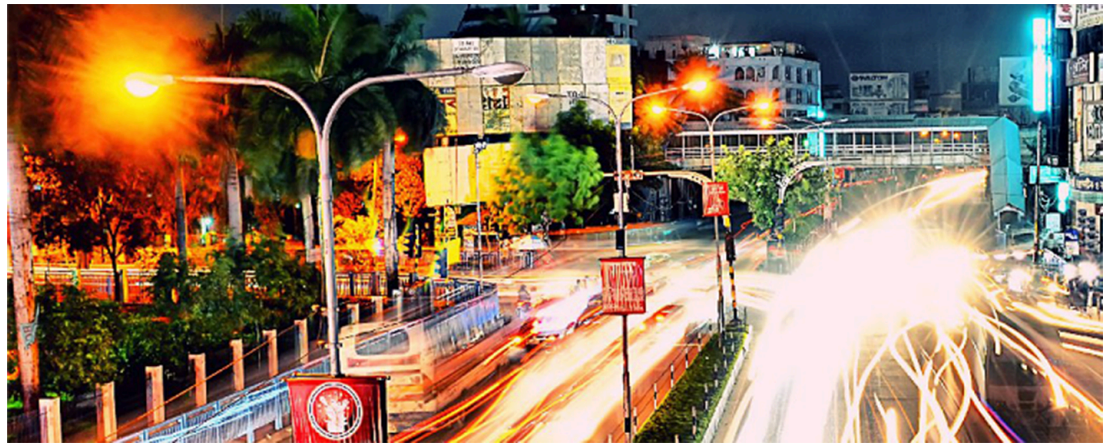


PayPal Express Checkout Using Alternative Payment Services

SCMP API

Developer Guide



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Version: 22.02

Contents

- Recent Revisions to This Document..... 6**
- About This Guide..... 7**
- Introduction to PayPal Express Checkout..... 9**
 - Benefits of Using PayPal Express Checkout..... 9
 - Prerequisites..... 10
 - PayPal Merchant Set Up..... 10
 - Acquiring and Providing PayPal Merchant Set Up Information to Cybersource..... 10
 - PayPal Express Checkout In-Context Flow..... 11
 - PayPal Express Order Processing..... 12
 - Using Standard Orders..... 12
 - Using Custom Orders..... 12
 - PayPal Express Order Tracking..... 13
 - Reconciliation IDs..... 14
 - Using PayPal Express Credit..... 14
 - Adding the PayPal Express Credit Banner and Button to Your Page..... 15
 - Additional PayPal Express Checkout Services..... 15
 - Obtaining Transaction Information..... 16
 - Dispute and Chargeback Services..... 16
- Sessions Service..... 18**
 - Requesting the Sessions Service..... 18
 - Following the Sessions Request..... 18
- Check Status Service..... 20**
 - Requesting the Check Status Service..... 20
 - Checking the Status of a Service Request..... 20
 - Checking the Status of an Individual Service Request..... 21
- Order Service..... 24**
 - Requesting the Order Service..... 24
 - Following the Order Request..... 24
- Cancel Service..... 25**
 - Requesting the Cancel Service..... 25
- Authorization Service..... 26**
 - Requesting the Authorization Service..... 26

| | |
|--|-----------|
| Following the Authorization Request..... | 26 |
| Authorization Reversal Service..... | 27 |
| Requesting the Authorization Reversal Service..... | 27 |
| Capture Service..... | 28 |
| Requesting the Capture Service..... | 28 |
| Following the Capture Request..... | 28 |
| Sale Service..... | 29 |
| Requesting the Sale Service..... | 29 |
| Following the Sale Request..... | 29 |
| Refund Service..... | 30 |
| Requesting the Refund Service..... | 30 |
| Billing Agreements Service..... | 31 |
| Requesting the Billing Agreements Service..... | 31 |
| Setting Up a Billing Agreement..... | 31 |
| Creating a Billing Agreement..... | 31 |
| Billing Agreement Service Examples..... | 32 |
| API Fields..... | 34 |
| Formatting Restrictions..... | 34 |
| Data Type Definitions..... | 34 |
| Working with Multibyte Character Strings..... | 34 |
| Request IDs in Request Messages..... | 35 |
| Request IDs in API Response Messages..... | 36 |
| Request Fields..... | 37 |
| Offer-Level Fields..... | 48 |
| Response Fields..... | 51 |
| Service Examples..... | 79 |
| Sessions Service..... | 79 |
| Order Service..... | 80 |
| Cancel Service..... | 81 |
| Authorization Service..... | 82 |
| Authorization Reversal Service..... | 82 |
| Capture Service..... | 83 |
| Sale Service..... | 84 |
| Refund Service..... | 86 |
| Billing Agreement Service..... | 86 |

Check Status Examples.....88

 Sessions Service: Check Status..... 88

 Order Service: Check Status.....89

 Authorization Service: Check Status..... 89

 Capture Service: Check Status.....90

 Sale Service: Check Status..... 90

 Refund Service: Check Status..... 91

 Billing Agreement Service: Check Status..... 92

Response Flags..... 94

Recent Revisions to This Document

| Release | Changes |
|---------|---|
| 22.02 | This revision contains only editorial changes and no technical updates. |
| 22.01 | This revision contains only editorial changes and no technical updates. |
| 21.01 | Updated description of field ship_to_immutable in API Fields (on page 34) . |
| 20.01 | <p>Added sale service request and response examples for a reference transaction to Service Examples (on page 79).</p> <p>Added ap_check_status_request_id field to API Fields (on page 34) and Service Examples (on page 79).</p> |
| 19.04 | <p>Added information on Order Tracking to PayPal Express Order Tracking (on page 13).</p> <p>Added shipping_method field to API Fields (on page 34).</p> |
| 19.03 | Added updated information about PayPal customer billing addresses and check status service response fields in API Fields (on page 34) . |
| 19.02 | <p>Reorganized document structure:</p> <ul style="list-style-type: none">• Merged content to create a single section: Check Status Service (on page 20).• Moved relevant SCMP API information to API Fields (on page 34).• Consolidated service examples in Service Examples (on page 79).• Consolidated check status examples in Check Status Examples (on page 88). <p>Added new client_metadata_id field to API Fields (on page 34).</p> |

About This Guide

This section describes the audience and purpose of this guide as well as conventions and related documentation. See below information about how to use this guide and where to find further information.


Audience and Purpose


This guide is written for application developers who want to use the Cybersource SCMP API to integrate PayPal Express Checkout into their order management system.

Implementing PayPal Express Checkout services requires software development skills. You must write code that uses API request and response fields to integrate PayPal Express Checkout services.

Conventions

The following special statements are used in this document:

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

 **Warning:** A *Warning* contains information or instructions, which, if not heeded, can result in a security risk, irreversible loss of data, or significant cost in time or revenue or both.

Related Documentation

- *Getting Started with Cybersource Advanced for the SCMP API* ([PDF](#) | [HTML](#)) describes how to get started using the SCMP API.
- [SCMP API Documentation and Downloads page](#).

Refer to the Support Center for complete technical documentation:

<https://www.cybersource.com/en-us/support/technical-documentation.html>

Customer Support

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

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

Introduction to PayPal Express Checkout

When you use the PayPal Express Checkout services:

- No additional security key management is required from you.
- You manage your PayPal Express Checkout payments in the Cybersource Business Center as you would other payment types. You can search for the payment and view its details.
- You use the Transaction Details Report and the Transaction Summary Report to manage your PayPal Express Checkout payments.

Benefits of Using PayPal Express Checkout

When you use PayPal Express Checkout, your customer completes the order on your web site rather than on the PayPal web site. You can:

- Receive real-time notification of successful payments.
- Enable your customers to be directed to your web site's final confirmation page.
- Receive notification from Cybersource that the customer's address has been confirmed and that you are eligible for coverage under the PayPal Seller Protection Policy (if you are enrolled). For more information, see [Dispute and Chargeback Services \(on page 16\)](#).

PayPal requires you to provide three ways for your customers to access PayPal Express Checkout. See [Table 2: PayPal Express Checkout Methods \(on page 9\)](#) below.

PayPal Express Checkout Methods

| Method | Description |
|----------|--|
| Shortcut | Place the Checkout with PayPal button on your checkout page. |
| Payment | Place the PayPal button on your payment page or add PayPal as a choice in your payment drop-down list. |
| Credit | Place the PayPal Credit button on your checkout page. |

Prerequisites

Before you process PayPal Express Checkout payments:

- Install a Cybersource client. See:

Getting Started with Cybersource Advanced for the SCMP API ([PDF](#) / [HTML](#)).

- Contact Customer Support to set up your Cybersource merchant account. For more information, see [PayPal Merchant Set Up \(on page 10\)](#).

For general information about the API versions, see [Getting Started with Cybersource Advanced for the SCMP API](#).

PayPal Merchant Set Up

To process your PayPal Express Checkout payments through Cybersource, you must set up your merchant account by sharing this information with Cybersource:

- PayPal sandbox account (facilitator email address)
- PayPal client ID (CID)
- PayPal secret
- PayPal merchant ID (MID)

Acquiring and Providing PayPal Merchant Set Up Information to Cybersource

1. If you do not already have one, set up a PayPal business or premier account:
<https://www.paypal.com/us/webapps/mpp/merchant>
2. If you do not already have one, set up a PayPal developer sandbox account:
<https://developer.paypal.com/docs/classic/lifecycle/sandbox/accounts/#create-and-manage-sandbox-accounts>
3. As directed on the PayPal site, get your PayPal credentials by creating a PayPal app:
<https://developer.paypal.com/docs/api/overview/#get-credentials>
4. Save the Sandbox account facilitator email address, the client ID, and the secret for future reference. For example:
 - Sandbox account facilitator email address:

`merchantuser-facilitator@merchant.com`

- Client ID:

`AahnQzKLL2vvG_UI6YQy9xcyt5joMLVoPHW-1Bv8gCvPkTiNwQSRCvKIKXy8UZZguijbwJTTs_Cjhdz`

- Secret:

`E0E3eqqeIBy4q8LhsON0-wp2zPb_0S0qPH3sopx_uwuIMkCug7zw3aKDunstrXmcrGecmpeUJgsqTGO`

5. On the PayPal developer site, click **Profile** at the top right corner of the page.


6. Navigate to **My business info** in the left navigation pane. Your merchant ID is displayed in the list of merchant information. Save the merchant ID for future reference. For example:

- Merchant ID: `PP45KFYYH69KU`

7. Contact Cybersource merchant support and provide them with the information you have collected from PayPal: the sandbox facilitator email account, the client ID, the secret, and the merchant ID.

When your Cybersource account is set up, you can process PayPal Express Checkout payments.

PayPal Express Checkout In-Context Flow

 **Important:** To enable PayPal Express Checkout, see:

<https://developer.paypal.com/docs/checkout/reference/upgrade-integration/>

When your customer is ready to pay for the products that they choose from your web site:

1. The customer clicks **Checkout with PayPal** on your checkout page or clicks **PayPal** on your payment page.
2. Your web site remains in view while a PayPal window appears.
3. The customer logs in and chooses a payment method and shipping address.
4. Customer confirms payment, and PayPal redirects the customer's browser to your web site. You can choose to display a payment confirmation page:

<https://developer.paypal.com/docs/checkout/reference/upgrade-integration/>

PayPal Express Order Processing

PayPal Express checkout provides two kinds of order processing:

- Standard orders
- Custom orders

The kind of order processing you use depends upon your business. Cybersource recommends using custom orders, because they can be more flexible than standard orders.

Using Standard Orders

Use a standard order when you meet one or more of these criteria:

- You do not usually run out of products.
- You do not usually have back orders.
- You do not accept advanced orders.

Standard Order Flow

Sequence of service requests for a standard 100.00 order:

1. Sessions Service 100.00
2. Check Status Service
3. Order Service for 100.00
4. Sale Service for 100.00

Using Custom Orders

A PayPal Express checkout custom order enables you to perform multiple authorizations and multiple captures for each authorization. Use a custom order when you meet one or more of these criteria:

- You often have split shipments.
- You accept advanced orders for products that are not currently available but will be available within the next 29 days.

- You often have back orders for which the customer waits longer than a week.
- You often reauthorize bank cards.

Custom Order Flows

Sequence of Service Requests for Custom 100.00 Orders

| Immediate Sale | Delayed Authorization | Delayed Capture |
|-----------------------------|------------------------------------|------------------------------------|
| 1. Sessions Service | 1. Sessions Service | 1. Sessions Service |
| 2. Check Status Service | 2. Check Status Service | 2. Check Status Service |
| 3. Order Service for 100.00 | 3. Order Service for 100.00 | 3. Order Service for 100.00 |
| 4. Sale Service for 100.00 | 4. Authorization Service for 70.00 | 4. Authorization Service for 70.00 |
| | 5. Capture Service for 70.00 | 5. Capture Service for 20.00 |
| | 6. Authorization Service for 30.00 | 6. Capture Service for 50.00 |
| | 7. Capture Service for 30.00 | 7. Authorization Service for 30.00 |
| | | 8. Capture Service for 15.00 |
| | | 9. Capture Service for 15.00 |

PayPal Express Order Tracking

Order tracking enables you to review transactions across your business and Cybersource reports by providing you with unique IDs - such as request IDs and transaction reference numbers that you can use for this purpose.

For all PayPal Express Checkout services, the request ID is returned in the response message in the **request_id** field. For more information on request IDs, see [Request IDs in Request Messages \(on page 35\)](#).

For more information about order tracking, see *Getting Started with Cybersource Advanced for the SCMP API* ([PDF](#) | [HTML](#)).


Reconciliation IDs

This table lists the fields for the `trans_ref_no` values that are returned in individual service response messages and sent to PayPal as your invoice number. You can use these values to track transactions with Cybersource and PayPal.


Reconciliation ID Fields

| Service | Field |
|------------------------|--|
| Authorization | <code>ap_auth_trans_ref_no</code> |
| Authorization Reversal | <code>ap_auth_reversal_trans_ref_no</code> |
| Cancel | <code>ap_cancel_trans_ref_no</code> |
| Capture | <code>ap_capture_trans_ref_no</code> |
| Check Status | <code>ap_check_status_trans_ref_no</code> |
| Order | <code>ap_order_trans_ref_no</code> |
| Refund | <code>ap_refund_trans_ref_no</code> |
| Sale | <code>ap_sale_trans_ref_no</code> |
| Sessions | <code>ap_sessions_trans_ref_no</code> |

Using PayPal Express Credit

 **Important:** PayPal Express Credit is supported only in the U.S.A.

The PayPal Express Credit button on your checkout page offers PayPal Express credit as a standalone option. Customers can defer payment by using the PayPal Express credit line included in their PayPal account. Do not display the PayPal Credit button on your shopping cart page if you require customers to log in before checking out.

 **Important:** The PayPal Express credit supports standard order flow (see [Using Standard Orders \(on page 12\)](#)) and custom order flows (see ["Using Custom Orders," page 8 \(on page 12\)](#)). Include the `ap_sessions_payment_option_id` request field in the sessions request and set it to `credit`.

When your customers are ready to pay for your product, they follow these steps:

1. Click **PayPal Credit** on the checkout page.
2. Log in and enter a date of birth and Social Security number.
3. Agree to the PayPal credit terms and conditions.
4. Confirm the email address and credit line.
5. Confirm the credit amount. The customer is directed to the merchant web site.
6. Confirm order.

Adding the PayPal Express Credit Banner and Button to Your Page

1. Add the PayPal banner to advertise and explain the benefits of PayPal credit:
https://financing.paypal.com/docs/Web_Step_By_Step_Guide.pdf
2. Add the PayPal Credit button to your checkout page:
<https://www.paypal.com/us/webapps/mpp/logos-buttons>

Additional PayPal Express Checkout Services

Table 5: Additional PayPal Express Checkout Services (on page 15) below describes additional available services.

Additional PayPal Express Checkout Services

| Service | Description |
|---|---|
| Authorization reversal service See Authorization Reversal Service (on page 27) | Reverses an authorization or an order setup: <ul style="list-style-type: none">• When you perform multiple authorizations for an order and want to reverse one of them, you must specify which authorization to reverse by including the ap_auth_request_id field. |
| Refund service See Refund Service (on page 30) | Refunds the capture amount to a customer. You can perform multiple partial refunds for each capture: <ul style="list-style-type: none">• To refund an immediate full or partial sale, request the refund service and include the ap_refund_request_id field. |

Additional PayPal Express Checkout Services (continued)

| Service | Description |
|---------|---|
| | <ul style="list-style-type: none">• To refund a delayed capture, you must specify which capture to credit by including the ap_refund_request_id field. |

Obtaining Transaction Information

The following table describes how to obtain information about your PayPal Express Checkout transactions.

Obtaining Transaction Information

| Method | Description |
|----------------------------------|--|
| PayPal Express Checkout services | Use the check status service (see Check Status Service (on page 20)). |
| Response messages | After you send a request message for a PayPal Express Checkout service, Cybersource responds with a response message that contains information about the status of your request, including errors and exceptions. |
| Reports | Use the Transaction Details Report and the Transaction Summary Report to manage your PayPal Express Checkout payments. |
| Transaction details | View the details of your PayPal Express Checkout transactions in the Business Center just as you can for other payment types. You can search for transactions by date, application type, customer name, and other transaction identifiers. |

Dispute and Chargeback Services

This table describes PayPal Express Checkout services related to disputes and chargebacks.

Services for Disputes and Chargebacks

| Service | Description |
|---------------------------|---|
| Chargeback dispute rights | When your customers choose a payment card as the funding source for the PayPal Express Checkout payment, they have chargeback dispute |

Services for Disputes and Chargebacks (continued)

| Service | Description |
|-------------------------|---|
| | rights. If your customers dispute a charge, PayPal Express Checkout performs the initial chargeback processing and contacts you for documentation. |
| Buyer complaint process | PayPal Express Checkout offers a Buyer Complaint Process that applies to all purchases regardless of the funding source. When a customer files a complaint, PayPal investigates and contacts you for documentation. See http://www.paypal.com/cgi-bin/webscr?cmd=p/gen/buyer-complaint-outside . |

Sessions Service

Requesting the Sessions Service

When your customer makes a purchase, you submit a sessions service request to begin the payment transaction. The sessions request can also be used to create a billing agreement.

The sessions service (**ics_ap_sessions**):

- Starts the payment process or begins a billing agreement with PayPal, which sets up the customer order.
- To begin a billing agreement, you do not have to send any values, such as a dollar amount or a currency value. You also include additional fields, such as **ap_billing_agreement_description** and **ap_billing_agreement_indicator**.
- Returns a Cybersource request ID (**request_id**) and a PayPal transaction ID (**ap_sessions_transaction_id**).
- Returns a redirect URL (**ap_sessions_merchant_url**) that includes a sessions token. Use the redirect URL to send the customer's browser to the PayPal web site.

Redirect URL: https://www.sandbox.paypal.com/cgi-bin/webscr?cmd=_expresscheckout&token=EC-2HF65459FN270362N

For additional information: <https://developer.paypal.com/docs/integration/direct/express-checkout/integrationjsv4/>.

For information on sessions service API fields, including billing agreement fields, see [API Fields \(on page 34\)](#).

Following the Sessions Request

- To check the status of the sessions request, use the check status service. See [Check Status Service \(on page 20\)](#).
- To continue placing a standard or custom order, use the order service. See [Order Service \(on page 24\)](#).
- To complete the process of creating a billing agreement with PayPal, use the billing agreement service. See [Billing Agreements Service \(on page 31\)](#).

For sessions service examples, see [Service Examples \(on page 79\)](#). For sessions service check status examples, see [Check Status Examples \(on page 88\)](#).


Check Status Service

Requesting the Check Status Service

You can check the status of an individual service request or of a billing agreement.

The check status service (**ics_ap_check_status**):


- Requires the request ID (**request_id**) that was returned in the individual service response.
- Returns the status of the individual service request.
- If applicable, requires the billing agreement ID (**ap_billing_agreement_id**).
- If applicable, returns the customer's billing agreement details.

 **Important:** To get a customer's billing address details from PayPal, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.

Checking the Status of a Service Request

To check the status of a specific service request, you need to include the correct request ID. [Checking the Status of an Individual Service Request \(on page 21\)](#) describes the request IDs used to check the status of a service.

For more information on the request IDs used by each PayPal Express service, see [Request IDs in Request Messages \(on page 35\)](#).

 **Important:** If your individual service request included **offer-level** fields, the **ics_ap_check_status** service response returns **offer-level** fields. To enable your account for **offer-level** fields, contact Cybersource customer support.

For information on required and optional fields, see [API Fields \(on page 34\)](#).

For service examples, see [Service Examples \(on page 79\)](#). For check status examples, see [Check Status Examples \(on page 88\)](#).

Checking the Status of an Individual Service Request

1. Set the **ics_applications** field to `ics_ap_check_status`.
2. Include the following required fields in the request:
 - **merchant_id**
 - **merchant_ref_number**
 - **ap_payment_type**—set to `PPL`.
3. Set the **request_id** field based on the values described in [Table 8: Checking the Status of Individual Service Requests \(on page 21\)](#) below.

Checking the Status of Individual Service Requests

| Service | Request ID Value |
|-------------------|---|
| Authorization | <p>To check the status of an authorization service request, set the ap_check_status_request_id field to the value returned in the request_id field of the authorization service response. See Authorization Service: Check Status.</p> <p>The ap_check_status_payment_status field returns one of the following values:</p> <ul style="list-style-type: none">• <code>AUTHORIZED</code>• <code>EXPIRED</code>• <code>FAILED</code>• <code>PENDING</code> |
| Billing Agreement | <p>To check the status of a billing agreement service request, set the ap_sessions_status field to the value returned in the request_id field of the sessions service response.</p> <p>Also in the billing agreement service check status request, set the ap_billing_agreement_id field to the value returned in the ap_billing_agreement_id field in the billing agreement service response. See .</p> <p>The ap_check_status_payment_status field returns one of the following values:</p> <ul style="list-style-type: none">• <code>ACTIVE</code>• <code>CANCELLED</code>• <code>FAILED</code> |

| Service | Request ID Value |
|---------|---|
| Capture | <p>To check the status of a capture service request, set the ap_check_status_request_id field to the value returned in the request_id field of the capture service response. See .</p> <p>The ap_check_status_payment_status field returns one of the following values:</p> <ul style="list-style-type: none"> • DISPUTED • FAILED • PENDING • SETTLED |
| Order | <p>To check the status of an order service request, set the ap_check_status_request_id field to the value returned in the request_id field of the order service response. See .</p> <p>The ap_check_status_payment_status field returns one of the following values:</p> <ul style="list-style-type: none"> • CANCELLED • CREATED • FAILED |
| Refund | <p>To check the status of a refund service request, set the ap_check_status_request_id field to the value returned in the request_id field of the refund service response. See .</p> <p>The ap_check_status_payment_status field returns one of the following values:</p> <ul style="list-style-type: none"> • FAILED • PENDING • REFUNDED |
| Sale | <p>To check the status of a sale service request, set the ap_check_status_request_id field to the value returned in the request_id field of the sale service response. See .</p> <p>The ap_check_status_payment_status field returns one of the following values:</p> <ul style="list-style-type: none"> • DISPUTED |

| Service | Request ID Value |
|----------|---|
| | <ul style="list-style-type: none"> • FAILED • PENDING • SETTLED |
| Sessions | <p>To check the status of a sessions service request, set the ap_sessions_status field to the value returned in the request_id field of the sessions service response. See .</p> <p>The ap_check_status_payment_status field returns one of these status values:</p> <ul style="list-style-type: none"> • CREATED • FAILED |

Order Service

Requesting the Order Service


An order can be sent as a standard order (the full amount) or as a custom order (multiple partial amounts). For more information, see [PayPal Express Order Processing \(on page 12\)](#).

The order service (**ics_ap_order**):

- Requires the request ID (**request_id**) value returned in the sessions response.
- Requires the payer ID (**ap_payer_id**) value to complete the payment.
- Creates an order in anticipation of one or more authorizations.
- Returns a transaction ID

Following the Order Request

- To continue with a standard order, use the sale service. See [Sale Service \(on page 29\)](#).
- To continue with a custom order, use the authorization service. See [Authorization Service \(on page 26\)](#).
- To void a standard or custom order, use the cancel service. See [Cancel Service \(on page 25\)](#).

 **Important:** Once a session service request has been submitted, the subtotal amount cannot be updated. If there is a change in any of the amount fields, all of the amount fields must be sent in a new request. They must equal the grand total amount.

For required and optional fields, see [API Fields \(on page 34\)](#).

For order service examples, see [Service Examples \(on page 79\)](#). For order service check status examples, see [Check Status Examples \(on page 88\)](#).

Cancel Service

Requesting the Cancel Service

To void a standard or custom order, use the cancel service.

 **Important:** You cannot cancel an order once it has been authorized or captured.

The cancel service (**ics_ap_cancel**):

- Voids or cancels the order.
- Requires the request ID (**request_id**) value that was returned in the order response. Include the value in the **ap_order_request_id** field.
- When processing a billing agreement transaction, include the **ap_billing_agreement_id** field. See [Billing Agreements Service \(on page 31\)](#).

For required and optional fields, see [API Fields \(on page 34\)](#).

For cancel service examples, see [Service Examples \(on page 79\)](#) and [Check Status Examples \(on page 88\)](#).

Authorization Service


Requesting the Authorization Service

The full amount of your order can be authorized for a standard order, or you can send multiple partial authorizations for a custom order.

The authorization service (**ics_ap_auth**):

- Requires the request ID (**request_id**) value that was returned in the order response.
- Obtains the authorization.
- Enables you to perform multiple partial authorizations.

The authorization service commits funds for three business days. For three days you can try to capture the funds. If the funds are available, the capture is successful.

 **Important:** If three days is not enough to successfully capture your custom orders, contact PayPal to have the honor interval increased. For more information on custom orders, see [Using Custom Orders \(on page 12\)](#).

Following the Authorization Request

- To capture the authorized amount, use the capture service. See [Capture Service \(on page 28\)](#).
- To reverse the authorization, use the authorization reversal service. See [Authorization Reversal Service \(on page 27\)](#).

For required and optional fields, see [API Fields \(on page 34\)](#).

For authorization service examples, see [Service Examples \(on page 79\)](#). For authorization service check status examples, see [Check Status Examples \(on page 88\)](#).


Authorization Reversal Service

Requesting the Authorization Reversal Service

Reversing an authorization removes the hold placed on your customer's funds. Both full and partial authorizations can be reversed.

The authorization reversal service (**ics_ap_auth_reversal**):

- Requires the request ID (**request_id**) value that was returned in the authorization service response.

 **Important:** Reversing an authorization on funds that have been captured does not release the captured amount. To return a customer's funds once they have been captured, use the refund service.

For required and optional fields, see [API Fields \(on page 34\)](#).

For authorization reversal service examples, see [Service Examples \(on page 79\)](#). For authorization reversal check status service examples, see [Check Status Examples \(on page 88\)](#).

Capture Service

Requesting the Capture Service

The capture service follows an authorization request and transfers funds to your account to complete the payment transaction.

The capture service (**ics_ap_capture**):

- Requires the request ID (**request_id**) value that was returned in the authorization response.
- Enables you to capture the entire authorized amount.
- Enables you to perform multiple partial captures (called *split shipments*) of up to 115% of the authorized amount.

Following the Capture Request

To refund the customer's funds, use the refund service. See [Refund Service \(on page 30\)](#).

For required and optional fields, see [API Fields \(on page 34\)](#).

For capture service examples, see [Service Examples \(on page 79\)](#). For capture service check status examples, see [Check Status Examples \(on page 88\)](#).

Sale Service

Requesting the Sale Service

The sale service is an authorization and capture in one request. The sale service transfers funds to your account to complete the payment transaction.

The sale service (**ics_ap_sale**):

- Requires the request ID value returned in the order response. Include this value in the **ap_order_request_id** field.
- Requires the billing agreement ID value, if you are processing a billing agreement. Include this value in the **ap_billing_agreement_id** field. See [Billing Agreements Service \(on page 31\)](#).
- Returns a processor transaction ID (**ap_sale_processor_transaction_id**).

Following the Sale Request

To refund the customer's funds, use the refund service. See [Refund Service \(on page 30\)](#).

For required and optional fields, see [API Fields \(on page 34\)](#).

For sale service examples, see [Service Examples \(on page 79\)](#). For sale service check status examples, see [Check Status Examples \(on page 88\)](#).

Refund Service

Requesting the Refund Service

To return funds to the customer after the payment transaction is completed, use the refund service.

The refund service (**ics_ap_refund**):

- Requires the request ID (**request_id**) value that was returned in the capture response or the sale response.
- Enables you to perform a full refund or multiple partial refunds for an order.

For required and optional fields, see [API Fields \(on page 34\)](#).


For refund service examples, see [Service Examples \(on page 79\)](#). For refund service check status examples, see [Check Status Examples \(on page 88\)](#).

Billing Agreements Service

Requesting the Billing Agreements Service

A billing agreement is set up between PayPal and your customer. When you collect the details of a customer's billing agreement, you are able to bill that customer without requiring an authorization for each payment. You can bill the customer at the same time you process their PayPal Express checkout order, which simplifies your business processes.

A billing agreement is also called a reference transaction. A billing agreement contains the customer's billing information, such as first and last name, street address, city, country, postal code, and more.

 **Important:** To get a customer's billing address details from PayPal, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.

Setting Up a Billing Agreement

Your merchant account must be configured to process billing agreements.

- For a Production account—contact your PayPal account manager to configure your production account or contact PayPal Business Support.
- For a Sandbox account—If your PayPal sandbox account was created before December 15, 2015, contact your PayPal account manager or [PayPal merchant technical support](#). If your PayPal sandbox account was created on or after December 15, 2015, it is already configured to process billing agreements.

Creating a Billing Agreement

1. Request the sessions service to receive the redirection URL (**ap_sessions_merchant_url**) that directs the customer to PayPal to confirm their billing agreement.

To create a billing agreement using the sessions service, you can do it in two ways:

- As a sale transaction. In this case, you request the sessions service using the customer's sale information and the the billing agreement information.

- As a billing agreement transaction. In this case, you do not need to send a dollar amount or any currency value. These fields can be zero.

For more information, see [Sessions Service \(on page 18\)](#).

2. Request the billing agreement service and include the request ID (**request_id**) value returned in the sessions service response.
3. Request the check status service to receive the customer's billing agreement details from PayPal. The check status request requires these two values:
 - The request ID (**request_id**) value returned in the sessions service response.
 - The billing agreement ID (**ap_billing_agreement_id**) value returned in the billing agreement service response.

For more information, see [Check Status Service \(on page 20\)](#).

4. Request the sale service to process the customer's billing agreement. You can do this in two ways:
 - As a sale transaction, with a reference transaction:
 - Include the billing agreement information created in [Step 2 \(on page 32\)](#).
 - Include the billing agreement ID (**ap_billing_agreement_id**) value returned in the billing agreement service response.
 - When you submitted the order service request, it returned the order ID (**ap_order_id**) value. Include this value in your sale service request.
 - As a reference transaction only:
 - Include the billing agreement information created in [Step 2 \(on page 32\)](#).
 - Include the billing agreement ID (**ap_billing_agreement_id**) value returned in the billing agreement service response.

For more information, see [Sale Service \(on page 29\)](#).

For required and optional fields, see [API Fields \(on page 34\)](#).

Billing Agreement Service Examples

The following examples help illustrate how billing agreements are used with these services:

- Sessions service—you can create a billing agreement using the sessions service and then check its status using the check status service. In this flow, you can begin a sale transaction and create a billing agreement in the same request. For sessions service examples, see [Sessions Service \(on page 18\)](#). For sessions service check status examples, see [Check Status Examples \(on page 88\)](#).
- Billing agreement service—you can create a billing agreement using the billing agreement service and then check its status using the check status service. In this flow, you create a billing agreement without any sale transaction. For billing agreement service examples, see [Billing Agreement Service](#). For billing agreement service check status examples, see [Check Status Examples \(on page 88\)](#).
- Sale service—you can include billing agreement fields in the sale service to create a reference transaction. For sale service reference transaction examples, see [Sale Service \(on page 29\)](#). For sale service check status examples, see [Check Status Examples \(on page 88\)](#).

API Fields

Formatting Restrictions

Unless otherwise noted, all fields are order and case insensitive and all fields accept special characters such as @, #, and %.

Values for request-level and offer-level fields must not contain carets (^) or colons (:). However, they can contain embedded spaces and any other printable characters. When you use more than one consecutive space, the extra spaces are removed.

For Moneris, values for request-level and offer-level fields must not contain these special characters: ampersands (&), single quotes ('), double quotes ("), less-than signs (<), and greater-than signs (>).

Data Type Definitions

Working with Multibyte Character Strings

Some 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 Cybersource API fields.

In some languages, a short name that has only three or four characters might be equivalent to 10 or 15 bytes in UTF-8. Therefore, it is important to consider the overall length of a multibyte string to be sure that it fits into the allotted ASCII string length.

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

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

Request IDs in Request Messages

The following table lists the request ID field names used in request messages. For the request ID field names used to check the status of an individual service, see [Authorization Service: Check Status \(on page 89\)](#).

Request IDs in Request Messages

| Service Request | Request Field Names |
|---|--|
| Authorization | ap_order_request_id —set to the value of the request_id field returned in the order service reply. |
| Authorization Reversal | ap_auth_request_id —set to the value of the request_id field returned in the authorization service reply. |
| Billing Agreement (reference transaction) | <ul style="list-style-type: none">• ap_sessions_request_id—set to the value of the request_id field returned in the sessions service reply.• ap_check_status_request_id—set to the value of the request_id field returned in the billing agreement service reply. |
| Cancel | <ul style="list-style-type: none">• ap_order_request_id—set to the value of the request_id field returned in the order service reply.• ap_billing_agreement_id—set to the value of the returned in the billing agreement service reply. |
| Capture | ap_auth_request_id —set to the value of the request_id field returned in the authorization service reply. |
| Check Status (get pay details) | <ul style="list-style-type: none">• ap_sessions_request_id—set to the value of the request_id field returned in the sessions service reply.• ap_check_status_request_id—set to the value of the request_id field returned in the: Authorization service reply Billing agreement service reply Capture service reply Order service reply |

Request IDs in Request Messages (continued)

| Service Request | Request Field Names |
|-----------------|--|
| | Refund service reply Sale service reply |
| Order | <ul style="list-style-type: none">• ap_sessions_request_id—set to the value of the request_id field returned in the sessions service reply.• ap_check_status_request_id—set to the value of the request_id field returned in the order service reply. |
| Refund | <ul style="list-style-type: none">• ap_refund_request_id—set to the value of the request_id field returned in the capture service reply.• ap_refund_request_id—set to the value of the request_id field returned in the sale service reply. |
| Sale | ap_order_request_id —set to the value of the request_id field returned in the order service reply. or ap_billing_agreement_id —include this field if processing a billing agreement. |

Request IDs in API Response Messages

For all PayPal Express Checkout services, the request ID is returned in the response message in the **request_id** field.

Request Fields


Request Fields

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|----------------------------------|---|---|--------------------|
| ap_auth_request_id | Set to the value of the request_id field returned in the Authorization service response. | Auth Reversal (R) Capture (R) | String (26) |
| ap_billing_agreement_description | Description of the billing agreement. | Sessions (O) | String (127) |
| ap_billing_agreement_id | The identifier for the billing agreement. This field is required when checking the status of a billing agreement. Set to the value returned in the ap_billing_agreement_id field. | Billing Agreement (R) Cancel (O) Check Status (R) Sale (R for a reference transaction) | String (50) |
| ap_billing_agreement_indicator | Indicates whether the transaction is a billing agreement. Possible values: <ul style="list-style-type: none"> • Y • N (default) | Sessions (O) | String (1) |
| ap_billing_agreement_description | Description of the billing agreement. | Sessions (O) | String (127) |
| ap_capture_is_final | Indicates whether to release the authorization hold on the remaining funds. Possible values: <ul style="list-style-type: none"> • Y • N (default) | Capture (O) | |
| ap_capture_request_id | Set to the value of the request_id field returned in the Capture service response. | Refund (R) | String (26) |




Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|----------------------------|--|---|--------------------|
| ap_check_status_request_id | Request ID of the transaction whose status you want to verify. | Check Status (R) | String 26) |
| ap_funding_source | Payment method for the unit purchase. Possible values: <ul style="list-style-type: none"> • INSTANT • UNRESTRICTED (default)—this value is only available if configured by PayPal for the merchant. | Refund (O) Sale (O) Sessions (O) | String (30) |
| ap_order_request_id | Set to the value of the request_id field returned in the Sessions service response. | Authorization (R) Cancel (R) Sale (R) | String (26) |
| ap_payer_id | The ID of the payer. | Order (R) | String(30) |
| ap_payment_type | Identifier for the payment type. Value: PPL | Authorization (R) Auth Reversal (R) Billing Agreement (R) Cancel (R) Capture (R) Check Status (R) Order (R) Refund (R) | String (3) |


Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|-------------------------------|---|--|--------------------|
| | | Sale (R) | |
| | | Sessions (R) | |
| ap_refund_reason | The reason for the refund. | Refund (O) | String (30) |
| ap_refund_request_id | Set to the value of the request_id field returned in the Sale or Capture service response. | Refund (R) | String (26) |
| ap_sessions_cancel_url | URL to which the customer is directed after cancelling the payment. | Sessions (O) | String (255) |
| ap_sessions_payment_option_id | Identifier for a PayPal credit transaction. Value: Credit | Sessions (R for PayPal credit transaction only) | String (255) |
| ap_sessions_request_id | Set to the value of the request_id returned in the sessions service response. | Billing Agreement (R) Check Status (R) Order (R) | String (26) |
| ap_sessions_success_url | URL to which the customer is directed after completing the payment. | Sessions (O) | String (255) |
| client_metadata_id | Verifies that the payment is originating from a valid, user-approved application and device. Sending this field helps reduce fraud and declined transactions.  Note: The length is set for a hexadecimal representation of the GUID/UUID. This field | Sale (R for reference transactions; otherwise O) | String (36) |




Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|--------------------|--|---|--------------------|
| | <p>accepts a 36-character string (with hyphens) or a 32-character string (without hyphens).</p> <p>123e4567-e89b-12d3-a456-426655440000</p> <p>123e4567e89b12d3a456426655440000</p> | | |
| currency | <p>Currency for the transaction. Use the three-character ISO Standard Currency Codes.</p> <p> Note: Do not include this field when creating a billing agreement.</p> <p> Important: Decimal places are not supported for the HUF currency code.</p> | <p>Authorization (R)</p> <p>Capture (R)</p> <p>Refund (R)</p> <p>Sale (R when creating an order)</p> <p>Sessions (R when creating an order)</p> | String (5) |
| grand_total_amount | <p>Grand total for the transaction. 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.</p> <p> Important: You must include either grand_total_amount or offer0, the offer-level field amount and the offer-level field tax_amount in your request.</p> | <p>Authorization (R)</p> <p>Capture (R)</p> <p>Order (R)</p> <p>Sale (R)</p> <p>Sessions (R when creating an order)</p> | Decimal (10) |



Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|---------------------|--|--|--------------------|
| | <p>The amount value must be a non-negative number containing 2 decimal places and limited to 7 digits before the decimal point.</p> <p> Note: Do not include this field when creating a billing agreement.</p> | | |
| ics_applications | <p>Cybersource services to process for the request.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • ics_ap_auth • ics_ap_auth_reversal • ics_ap_billing_agreement • ics_ap_cancel • ics_ap_capture • ics_ap_check_status • ics_ap_order • ics_ap_refund • ics_ap_sale • ics_ap_sessions | <p>Authorization (R)</p> <p>Auth Reversal (R)</p> <p>Billing Agreement (R)</p> <p>Cancel (R)</p> <p>Capture (R)</p> <p>Check Status (R)</p> <p>Order (R)</p> <p>Refund (R)</p> <p>Sale (R)</p> <p>Sessions (R)</p> | String (255) |
| merchant_descriptor | Merchant description on the customer's statement. When you include more than one consecutive space, extra spaces are removed. | <p>Sale (O)</p> <p>Sessions (O)</p> | String (35) |
| merchant_id | Your Cybersource merchant ID. Use the same merchant ID for evaluation, testing, and production. | Required by all services | String (30) |

Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|------------------|---|--|--------------------|
| merchant_ref_no | Merchant-generated transaction number 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 information about tracking orders and transactions, see | Required by all services | String (50) |
| note_to_payee | Note to the recipient of the funds in this transaction. | Sale (O) Sessions (O) | String (255) |
| note_to_payer | Free-form text field. | Sale (O) Sessions (O) | String (165) |
| ship_to_address1 | First line of the shipping address.  Note: This field is optional and valid only for a billing agreement (reference transaction). | Sale (R for a reference transaction) Sessions (O) | String (100) |
| ship_to_address2 | Second line of the shipping address.  Note: This field is optional and valid only for a billing agreement (reference transaction). | Sale (R for a reference transaction) Sessions (O) | String (100) |
| ship_to_city | City of the shipping address.  Note: This field is optional and valid only for a billing agreement (reference transaction). | Sale (R for a reference transaction) Sessions (O) | String (40) |
| ship_to_country | Country of the shipping address. Use the two-character ISO Standard Country Codes . | Sale (R for a reference transaction) | String (2) |




Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|-------------------|---|---|--------------------------|
| |  Note: This field is optional and valid only for a billing agreement (reference transaction). | Sessions (O) | |
| ship_to_firstname | <p>First name of the recipient.</p> <p>The two name fields, ship_to_firstname and ship_to_lastname, are concatenated. The maximum combined size is 32 characters. If the size exceeds 32 characters, the name is truncated.</p> <div>  Note: This field is optional and valid only for a billing agreement (reference transaction). </div> <p>In-Store Collection</p> <p>When processing an in-store collection transaction in which the customer orders online and picks up the order in the store, avoid PayPal fraud declines by including S2S as the first 3 characters. A blank space must also be included between S2S and the rest of the first name information.</p> <p>S2S John</p> | <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (see description) |
| ship_to_immutable | <p>Indicates whether the customer is permitted to edit the shipping address in their PayPal account. Possible values:</p> <ul style="list-style-type: none"> • Y: Customer cannot edit the shipping address. | <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (1) |


Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|------------------------|---|---|--------------------------|
| | <ul style="list-style-type: none"> N (default): Customer can edit the shipping address. When TRUE, the merchant-provided shipping address is used and the buyer cannot change the shipping address on the PayPal pages. If the merchant does not pass a shipping address, the buyer can choose the shipping address on PayPal pages. | | |
| ship_to_lastname | <p>Last name of the recipient.</p> <p>The two name fields, ship_to_firstname and ship_to_lastname, are concatenated. The maximum combined size is 32 characters. If the size exceeds 32 characters, the name is truncated.</p> <div>  Note: This field is optional and valid only for a billing agreement (reference transaction). </div> | <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (see description) |
| ship_to_not_applicable | <p>Indicates whether the shipping address is displayed to the customer in their PayPal account. Possible values:</p> <ul style="list-style-type: none"> Y: Shipping address is not displayed. N (default): Shipping address is displayed. <p>For example, for digital downloads and services in which a shipping address is not required, set the value to Y.</p> | <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (1) |
| ship_to_phone | Phone number for the shipping address. | Sale (R for a reference transaction) | String (20) |




Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|---------------|---|---|--------------------|
| |  Note: This field is optional and valid only for a billing agreement (reference transaction). | Sessions (O) | |
| ship_to_state | <p>State or province of the shipping address. Use the State, Province, and Territory Codes for the United States and Canada.</p>  Note: This field is optional and valid only for a billing agreement (reference transaction). | <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (40) |
| ship_to_zip | <p>Postal code for the shipping address. The postal code must consist of 5 to 9 digits.</p> <p>When the shipping country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</p> <p>12345-6789</p> <p>When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric]</p> <p>A1B 2C3</p>  Note: This field is optional and valid only for a billing agreement (reference transaction). | <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (20) |



Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|------------------|---|--|--------------------|
| shipping_method | <p>Shipping method for the product. Possible values:</p> <ul style="list-style-type: none"> • sameday: Courier or same -day service • oneday: Next-day or overnight service • twoday: Two-day service • threeday: Three-day service • lowcost: lowest-cost service • pickup: Store pick-up • other: Other shipping method • none: No shipping method because the product is a service or subscription | <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (10) |
| sub_total_amount | <p>Subtotal amount of all the items.</p> <p>This amount (which is the value of all items in the cart, not including the additional amounts such as tax, shipping, etc.) cannot change after a sessions request. When there is a change to any of the additional amounts, this field should be resent in the order request. When the sub total amount changes, you must initiate a new transaction starting with a sessions request.</p> <div>  Note: The value must be a non-negative number containing 2 decimal places and limited to 7 digits before the decimal point. </div> | <p>Order (O)</p> <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (15) |

Request Fields (continued)

| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|--------------------------------|---|---|--------------------|
| |  Important: This value can not be changed after a sessions request. | | |
| total_handling_amount | <p>Aggregate handling charges for the transaction.</p> <p>If this amount has changed since the initial sessions request, you must include the new value in the order request. You must also include all additional amount fields that apply to the order and ensure the total amount equals the grand_total_amount field value.</p> <p> Note: The value must be a non-negative number containing 2 decimal places and limited to 7 digits before the decimal point.</p> | <p>Order (O)</p> <p>Sale (R for a reference transaction)</p> <p>Sessions (R when creating an order)</p> | String (15) |
| total_shipping_amount | <p>Aggregate shipping charges for the transaction.</p> <p>If this amount has changed since the initial sessions request, you must include the new value in the order request. You must also include all additional amount fields that apply to the order and ensure the total amount equals the grand_total_amount field value.</p> <p> Note: The value must be a non-negative number containing 2 decimal places and limited to 7 digits before the decimal point.</p> | <p>Order (O)</p> <p>Sale (R for a reference transaction)</p> <p>Sessions (O)</p> | String (15) |
| total_shipping_discount_amount | Shipping discount amount for the transaction. | <p>Order (O)</p> <p>Sale (O)</p> | String (15) |

Request Fields (continued)



| Field | Description | Required (R) / Optional (O) | Data Type & Length |
|------------------|--|--------------------------------------|--------------------|
| | <p>If this amount has changed since the initial sessions request, you must include the new value in the order request. You must also include all additional amount fields that apply to the order and ensure the total amount equals the grand_total_amount value.</p> <p> Note: The value must be a negative number containing 2 decimal places and limited to 7 digits before the decimal point.</p> | Sessions (O) | |
| total_tax_amount | <p>Total tax amount. When the total_tax_amount and sub_total_amount fields are included in the request, do not include the tax amount as part of the subtotal amount calculation.</p> <p> Note: The value must be a non-negative number containing 2 decimal places and limited to 7 digits before the decimal point.</p> | <p>Order (O)</p> <p>Sessions (O)</p> | String (10) |

Offer-Level Fields




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 | Sale (O for a reference transaction) | Decimal (15) |


Offer-Level Fields (continued)

| Field | Description | Used By: Required (R) or Optional (O) | Data Type & Length |
|----------------------|---|--|-----------------------|
| | <p>characters. Cybersource truncates the amount to the correct number of decimal places.</p> <p> Note: The amount value must be a non-negative number containing 2 decimal places and limited to 7 digits before the decimal point.</p> <p>Do not include this field when creating a billing agreement.</p> | Sessions (0 when creating an order; otherwise not used) | |
| merchant_product_sku | <p>Identification code for the product.</p> <p>This field is required when product_code is not default or one of the values related to shipping and handling.</p> <p> Note: Do not include this field when creating a billing agreement.</p> | <p>Sale (0 for a reference transaction)</p> <p>Sessions (0 when creating an order; otherwise not used)</p> | String (255) |
| product_code | Type of product. This value is used to determine the category that the product is in: electronic, handling, physical, service, or shipping. The default value is default. | <p>Sale (0 for a reference transaction)</p> <p>Sessions (0 when creating an order; otherwise not used)</p> | String (255) |
| product_description | Description of the product. | Sale (0 for a reference transaction) | String (255) |

Offer-Level Fields (continued)

| Field | Description | Used By: Required (R) or Optional (O) | Data Type & Length |
|--------------|---|--|-----------------------------|
| |  Note: Do not include this field when creating a billing agreement. | Sessions (O when creating an order; otherwise not used) | |
| product_name | <p>Name of the product.</p> <p>This field is required when product_code is not <code>default</code> or one of the values related to shipping and handling.</p>  Note: Do not include this field when creating a billing agreement. | <p>Sale (O for a reference transaction)</p> <p>Sessions (O when creating an order; otherwise not used)</p> | String (255) |
| quantity | <p>The default is <code>1</code>.</p> <p>This field is required when product_code is not <code>default</code> or one of the values related to shipping and handling.</p>  Note: Do not include this field when creating a billing agreement. | <p>Sale (O for a reference transaction)</p> <p>Sessions (O when creating an order; otherwise not used)</p> | Nonnegative integer (10) |
| tax_amount | <p>Total tax to apply to the product. This value cannot be negative. The tax amount and the offer amount must be in the same currency.</p> <p>The tax amount field is additive. The following example uses a two-exponent currency such as USD:</p> <p>You include the following offer lines in your request:</p> | Sale (O for reference transactions) | Decimal (15) |

Offer-Level Fields (continued)


| Field | Description | Used By: Required (R) or Optional (O) | Data Type & Length |
|-----------------|---|--|-----------------------|
| | <p><code>offer0=amount:10.00^quantity:1^tax_amount:0.80</code></p> <p><code>offer1=amount:20.00^quantity:1^tax_amount:1.60</code></p> <p>The total amount authorized will be 32.40, not 30.00 with 2.40 of tax included.</p> | | |
| unit_tax_amount | <p>Per-item tax amount of the product.</p> <div>  Note: The amount value must be a non-negative number containing 2 decimal places and limited to 7 digits before the decimal point. </div> <p>Do not include this field when creating a billing agreement.</p> | Sessions (O when creating an order; otherwise not used) | Decimal (10) |

Response Fields


Response Fields

| Field | Description | Returned By | Data Type & Length |
|-------------------|--|---------------|-----------------------|
| ap_auth_date_time | <p>Date and time at which the service was requested.</p> <p>Format is yyyy-MM-DDThhmmssZ, where:</p> <ul style="list-style-type: none"> T separates the date and the time | Authorization | String (18) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|----------------------------------|---|---------------|--------------------|
| | <ul style="list-style-type: none"> • Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT) <p>2019-08-11T224757Z equals August 11, 2016, at 22:47:57 (10:47:57 p.m.)</p> | | |
| ap_auth_payment_status | <p>Payment status from the processor.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Authorized • Expired • Failed • Pending | Authorization | String (15) |
| ap_auth_processor_response | <p>The processor code that describes why the transaction state is pending or reversed.</p> <div>  Note: The returned value can also include the processor response values. </div> <p>See Reply Flags.</p> | Authorization | String (60) |
| ap_auth_processor_transaction_id | Identifier of the order transaction. | Authorization | String (50) |
| ap_auth_rcode | <p>One-digit reply code that indicates whether the authorization request was successful. Possible values:</p> <ul style="list-style-type: none"> • -1: An error occurred • 0: The request was declined | Authorization | Integer (1) |


Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-------------------------------------|---|---------------|--------------------|
| | <ul style="list-style-type: none"> • 1: The request was successful | | |
| ap_auth_response_code | Response code from the processor. | Authorization | Integer (5) |
| ap_auth_reversal_amount | The authorized amount that was reversed. | Auth Reversal | Decimal (15) |
| ap_auth_reversal_date_time | <p>Date and time at which the service was requested.</p> <p>Format is yyyy-MM-DDThh:mm:ssZ, where:</p> <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>2019-08-11T22:47:57Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)</p> | Auth Reversal | String (18) |
| ap_auth_reversal_payment_status | <p>The payment status returned from the payment processor.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Auth_reversed • Failed • Pending | Auth Reversal | String (15) |
| ap_auth_reversal_processor_response | <p>The processor code that describes why the transaction state is pending or reversed.</p> <div>  Note: The returned value can also include the processor response values. </div> | Auth Reversal | String (60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|---|--|---------------|--------------------|
| | See Reply Flags. | | |
| ap_auth_reversal_processor_transaction_id | Identifier of the order transaction. | Auth Reversal | String (50) |
| ap_auth_reversal_code | One-digit reply code that indicates whether the authorization reversal request was successful. Possible values: <ul style="list-style-type: none"> • -1: An error occurred • 0: The request was declined • 1: The request was successful | Auth Reversal | Integer (1) |
| ap_auth_reversal_response_code | The processor response code. Possible values 00000 to 99999. | Auth Reversal | Numeric (5) |
| ap_auth_reversal_rflag | One-word description of the result of the auth reversal request. See Reply Flags. | Auth Reversal | String (50) |
| ap_auth_reversal_message | Message explaining the reply code ap_auth_reversal_rflag. | Auth Reversal | String (255) |
| ap_auth_reversal_transaction_ref_no | Reference number that you use to reconcile your Cybersource reports with your business reports. For more information about tracking orders, see Getting Started with Cybersource Advanced for the SCMP API (PDF HTML). | Auth Reversal | String (60) |
| ap_auth_rflag | One-word description of the result of the authorization request. See Reply Flags. | Authorization | String (50) |


Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|---|---|-------------------|--------------------|
| ap_auth_rmsg | Message explaining the reply code. | Authorization | String (255) |
| ap_auth_trans_ref_no | Reference number that you use to reconcile your Cybersource reports with your business reports. For more information about tracking orders, see Getting Started with Cybersource Advanced for the SCMP API (PDF HTML). | Authorization | String (60) |
| ap_billing_agreement_amount | Total amount charged from the payer to the payee. 10 characters max with support for 2 decimal places. | Billing Agreement | String(15) |
| ap_billing_agreement_date_time | Date and time at which the service was requested. Format is yyyy-MM-DDThhmmssZ, where: <ul style="list-style-type: none"> • T separates the date and the time • Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT) 2019-08-11T224757Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.) | Billing Agreement | String (18) |
| ap_billing_agreement_id | The Billing Agreement Id returned by processor (PayPal). | Billing Agreement | String(50) |
| ap_billing_agreement_processor_response | The processor response code. Possible values 00000 to 99999. <div>  Note: The returned value can also include the processor response values. </div> | Billing Agreement | String(60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-----------------------------|--|-------------------|--------------------|
| | See Reply Flags. | | |
| ap_billing_agreement_rcode | <p>One-digit reply code that indicates whether the authorization request was successful. Possible values:</p> <ul style="list-style-type: none"> • -1: An error occurred • 0: The request was declined • 1: The request was successful | Billing Agreement | Integer (1) |
| ap_billing_agreement_rflag | One-word description of the result of the authorization request. | Billing Agreement | String (50) |
| ap_billing_agreement_rmsg | Message explaining the reply code. | Billing Agreement | String (255) |
| ap_billing_agreement_status | <p>State of the order transaction.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Active • Failed • Inactive | Billing Agreement | String(60) |
| ap_cancel_date_time | <p>Date and time at which the service was requested.</p> <p>Format is yyyy-MM-DDThhmmssZ, where:</p> <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) | Cancel | String (18) |


Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|------------------------------------|--|-------------|--------------------|
| | 2019-08-11T22:47:57Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.) | | |
| ap_cancel_processor_response | <p>The reason for when the transaction status is pending or reversed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • MULTI_CURRENCY • ORDER • OTHER • PAYER_SHIPPING_UNCONFIRMED • REGULATORY_REVIEW • RISK_REVIEW • VERIFICATION_REQUIRED <div>  Note: The returned value can also include the processor response values. See Reply Flags. </div> | Cancel | String (60) |
| ap_cancel_processor_transaction_id | Identifier of the order transaction. | Cancel | String (50) |
| ap_cancel_rcode | <p>One-digit reply code that indicates whether the cancel request was successful. Possible values:</p> <ul style="list-style-type: none"> • -1: An error occurred • 0: The request was declined | Cancel | Integer (1) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|------------------------|---|-------------|--------------------|
| | <ul style="list-style-type: none"> • 1: The request was successful | | |
| ap_cancel_rflag | <p>One-word description of the result of the cancel request.</p> <p>See Reply Flags.</p> | Cancel | String (50) |
| ap_cancel_rmsg | Message explaining the reply code. | Cancel | String (255) |
| ap_cancel_status | <p>The status of the cancel request.</p> <p>Possible Values:</p> <ul style="list-style-type: none"> • Cancelled • Failed | Cancel | String (60) |
| ap_cancel_trans_ref_no | <p>Reference number that you use to reconcile your Cybersource reports with your processor reports.</p> <p>For more information about tracking orders, see Getting Started with Cybersource Advanced for the SCMP API (PDF HTML).</p> | Cancel | String (60) |
| ap_capture_date_time | <p>Date and time at which the service was requested.</p> <p>Format is yyyy-MM-DDThhmmssZ, where:</p> <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>2019-08-11T224757Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)</p> | Capture | String (18) |


Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-------------------------------|---|-------------|--------------------|
| ap_capture_payment_status | <p>Payment status from the processor.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Failed • Pending • Settled | Capture | String (15) |
| ap_capture_processor_response | <p>The processor code that describes why the transaction state is pending or reversed.</p> <p>Possible values when the payment status is pending:</p> <ul style="list-style-type: none"> • INTERNATIONAL_WITHDRAWAL • PAYMENT_REVIEW • RECEIVING_PREFERENCE_MANDATES_MANUAL_ACTION • REGULATORY_REVIEW • TRANSACTION_APPROVED_AWAITING_FUNDING • UNCONFIRMED_SHIPPING_ADDRESS • VERIFICATION_REQUIRED <div>  Note: The returned value can also include the processor response values. </div> <p>See Reply Flags.</p> | Capture | String (60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|--------------------------------------|---|--------------|--------------------|
| ap_capture_processor_transaction_fee | Amount up to N digit after the decimals separator as defined in ISO 4217 for the appropriate currency code. | Capture | String (15) |
| ap_capture_processor_transaction_id | Identifier of the order transaction. | Capture | String (50) |
| ap_capture_rcode | One-digit reply code that indicates whether the capture request was successful. Possible values: <ul style="list-style-type: none"> • -1: An error occurred • 0: The request was declined • 1: The request was successful | Capture | Integer (1) |
| ap_capture_rflag | One-word description of the result of the auth reversal request. See Reply Flags. | Capture | String (50) |
| ap_capture_rmsg | Message explaining the reply code ap_capture_rflag. | Capture | String (255) |
| ap_capture_trans_ref_no | Reference number that you use to reconcile your Cybersource reports with your processor reports. For more information about tracking orders, see Getting Started with Cybersource Advanced for the SCMP API (PDF HTML) . | Capture | String (60) |
| ap_check_status_date_time | Date and time at which the service was requested. Format is yyyy-MM-DDThh:mm:ssZ, where: | Check Status | String (18) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|--|---|--------------|--------------------|
| | <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>2019-08-11T224757Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)</p> | | |
| ap_check_status_payment_status | <p>Description of the payment status.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Created • Failed | Check Status | String (15) |
| ap_check_status_processor_response | <p>This field is set to the value of failure reason returned by the processor.</p> <div>  Note: The returned value can also include the processor response values. See Reply Flags. </div> | Check Status | String (60) |
| ap_check_status_processor_transaction_id | Identifier of the order transaction. | Check Status | String (50) |
| ap_check_status_rcode | <p>One-digit reply code that indicates whether the check status request was successful.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • -1: An error occurred • 0: The request was declined • 1: The request was successful | Check Status | Integer (1) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-------------------------------------|--|--|--------------------|
| ap_check_status_response_code | Response code from the processor. Processor-defined response code on the status of the service request. | Check Status | Integer (5) |
| ap_check_status_rflag | One-word description of the result of the check status request. See Reply Flags. | Check Status | String (50) |
| ap_check_status_message | Message explaining the reply code ap_check_status_rflag. | Check Status | String (255) |
| ap_check_status_transactions_ref_no | Reference number that you use to reconcile your Cybersource reports with your business reports. For more information about tracking orders, see Getting Started with Cybersource Advanced for the SCMP API (PDF HTML). | Check Status | String (60) |
| ap_funding_source | Payment mode for the transaction. Possible values: <ul style="list-style-type: none">• DELAYED_TRANSFER• ECHECK• INSTANT_TRANSFER• MANUAL_BANK_TRANSFER | Authorization Check Status Order Sale Sessions | String (30) |
| ap_order_amount | Total amount charged from the payer to the payee. In case of a refund, this is the refunded amount to the original payer from the payee. 10 characters max with support for 2 decimal places. | Order | Decimal (10) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-----------------------------|--|-------------|--------------------|
| ap_order_date_time | <p>Date and time at which the service was requested.</p> <p>Format is yyyy-MM-DDThhmmssZ, where:</p> <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>2019-08-11T224757Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)</p> | Order | String (18) |
| ap_order_id | Identifier for the order. | Order | String (20) |
| ap_order_processor_response | <p>Processor-defined response for the payment failure.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • CANNOT_PAY_THIS_PAYEE • INVALID_PAYMENT_METHOD • MULTI_CURRENCY • ORDER • OTHER • PAYEE_FILTER_RESTRICTIONS • PAYER_CANNOT_PAY • PAYER_SHIPPING_UNCONFIRMED • REDIRECT_REQUIRED • REGULATORY_REVIEW • RISK_REVIEW | Order | String (60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-----------------------|---|---|--------------------|
| | <ul style="list-style-type: none"> UNABLE_TO_COMPLETE_TRANSACTION VERIFICATION_REQUIRED <p>See Reply Flags.</p> | | |
| ap_order_rcode | <p>One-digit reply code that indicates whether the order request was successful. Possible values:</p> <ul style="list-style-type: none"> -1: An error occurred 0: The request was declined 1: The request was successful | Order | Integer (1) |
| ap_order_rflag | <p>One-word description of the result of the order request.</p> <p>See Reply Flags.</p> | Order | String (50) |
| ap_order_rmsg | Message explaining the reply code. | Order | String (255) |
| ap_order_status | <p>State of the order transaction.</p> <p>Possible values:</p> <ul style="list-style-type: none"> Cancelled Created Failed | Order | String (60) |
| ap_order_trans_ref_no | <p>Invoice number to track this payment</p> <p>Maximum length: 127.</p> | Order | String (127) |
| ap_payer_id | The ID of the payer, passed in the return_url by PayPal after customer approval. | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String(30) |


Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|------------------------------------|--|---|--------------------|
| ap_processor_fraud_decision | <p>Fraud analysis made by the processor.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • ACCEPT • DENY • PENDING • REPORT | <p>Authorization</p> <p>Order</p> <p>Sale</p> | String (60) |
| ap_processor_fraud_decision_reason | <p>The processor's reason for the fraud analysis decision.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • AVS_NO_MATCH • AVS_PARTIAL_MATCH • AVS_UNAVAILABLE_OR_UN_SUPPORTED • BILLING_OR_SHIPPING_ADDRESS_MISMATCH • CARD_SECURITY_CODE_MISMATCH • COUNTRY_MONITOR • IP_ADDRESS_VELOCITY • LARGE_ORDER_NUMBER • MAXIMUM_TRANSACTION_AMOUNT • PAYPAL_FRAUD_MODEL • RISKY_BANK_IDENTIFICATION_NUMBER_CHECK • RISKY_EMAIL_ADDRESS_DOMAIN_CHECK | <p>Authorization</p> <p>Order</p> <p>Sale</p> | String (60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|------------------------------|---|-------------|--------------------|
| | <ul style="list-style-type: none"> • RISKY_IP_ADDRESS_RANGE • RISKY_ZIP_CODE • SUSPECTED_FREIGHT_FORWARDER_CHECK • TOTAL_PURCHASE_PRICE_MINIMUM • UNCONFIRMED_ADDRESS | | |
| ap_refund_date_time | <p>Date and time at which the service was requested.</p> <p>Format is yyyy-MM-DDThhmmssZ, where:</p> <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>2019-08-11T224757Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)</p> | Refund | String (18) |
| ap_refund_payment_status | <p>Refund status from the processor.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Failed • Pending • Refunded | Refund | String (15) |
| ap_refund_processor_response | The processor code that describes why the transaction state is pending or reversed. | Refund | String (60) |


Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|------------------------------------|--|-------------|--------------------|
| |  Note: The returned value can also include the processor response values. See Reply Flags. | | |
| ap_refund_processor_transaction_id | Identifier of the order transaction. | Refund | String (50) |
| ap_refund_rcode | One-digit reply code that indicates whether the refund request was successful. Possible values: <ul style="list-style-type: none"> • -1: An error occurred • 0: The request was declined • 1: The request was successful | Refund | Integer (1) |
| ap_refund_response_code | Response code from the processor. See Reply Flags. | Refund | Integer (5) |
| ap_refund_rflag | One-word description of the result of the refund request. See Reply Flags. | 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 business reports. For more information about tracking orders, see Getting Started with Cybersource Advanced for the SCMP API (PDF HTML). | Refund | String (60) |
| ap_sale_amount | Total amount charged from the payer to the payee. 10 characters max with support for 2 decimal places. | Sale | String (15) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|----------------------------|---|-------------|--------------------|
| ap_sale_date_time | <p>Date and time at which the service was requested.</p> <p>Format is yyyy-MM-DDThhmmssZ, where:</p> <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>2019-08-11T224757Z equals August 11, 2019, at 22:47:57 (10:47:57 p.m.)</p> | Sale | String (18) |
| ap_sale_payment_status | <p>Description of the payment status.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Failed • Pending • Settled | Sale | String (15) |
| ap_sale_processor_response | <p>The processor code that describes why the transaction state is pending or reversed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • BUYER_COMPLAINT • CHARGEBACK • ECHECK • GUARANTEE • INTERNATIONAL_WITHDRAWAL • PAYMENT_REVIEW | Sale | String (60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-----------------------------------|--|-------------|--------------------|
| | <ul style="list-style-type: none"> • RECEIVING_PREFERENCE_MANDATES_MANUAL_ACTION • REFUND • REGULATORY_REVIEW • TRANSACTION_APPROVED_AWAITING_FUNDING. • UNCONFIRMED_SHIPPING_ADDRESS • UNILATERAL • VERIFICATION_REQUIRED <div>  Note: The returned value can also include the processor response values. See Reply Flags. </div> | | |
| ap_sale_processor_transaction_fee | Amount up to N digit after the decimals separator as defined in ISO 4217 for the appropriate currency code. | Sale | String (15) |
| ap_sale_processor_transaction_id | Identifier of the order transaction. | Sale | String (50) |
| ap_sale_rcode | Indicates whether the sale request was successful. Possible values: <ul style="list-style-type: none"> • -1: An error occurred. • 0: The request was declined. • 1: The request was successful. | Sale | Integer (1) |




Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|----------------------------------|---|---|--------------------|
| ap_sale_response_code | Response code from the processor. | Sale | Integer (5) |
| ap_sale_rflag | If ics_ap_sale is unsuccessful, this field contains a one-word description of the error. | Sale | String (50) |
| ap_sale_rmsg | Message explaining the reply code ap_sale_rcode. | Sale | String (255) |
| ap_sale_trans_ref_no | Transaction reference number that was used for the transaction. | Sale | String (60) |
| ap_seller_protection_eligibility | <p>The level of seller protection for the transaction.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • ELIGIBLE • INELIGIBLE • PARTIALLY_ELIGIBLE | <p>Authorization</p> <p>Order</p> <p>Sale</p> | String (60) |
| ap_seller_protection_type | <p>The type of seller protection for the transaction. This property is returned only when the seller protection eligibility value is ELIGIBLE or PARTIALLY_ELIGIBLE.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • ITEM_NOT_RECEIVED_ELIGIBLE: Seller is protected against claims for items not received. • UNAUTHORIZED_PAYMENT_ELIGIBLE: Seller is protected against claims for unauthorized payments. <p>One or both values are returned.</p> | <p>Authorization</p> <p>Order</p> <p>Sale</p> | String (60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|--------------------------------------|--|-------------|--------------------|
| ap_sessions_amount | Total amount charged from the payer to the payee. In case of a refund, this is the refunded amount to the original payer from the payee. 10 characters max with support for 2 decimal places. | Sessions | String (15) |
| ap_sessions_merchant_url | Redirect URL to PayPal web site. | Sessions | |
| ap_sessions_payment_status | Status of the payment request. Possible values: <ul style="list-style-type: none">• Created• Failed | Sessions | String (15) |
| ap_sessions_processor_transaction_id | ID of the created payment. Value assigned by PayPal. | Sessions | String (50) |
| ap_sessions_rcode | Indicates whether the sessions request was successful. Possible values: <ul style="list-style-type: none">• -1: An error occurred.• 0: The request was declined.• 1: The request was successful. | Sessions | Integer (1) |
| ap_sessions_response_code | The transaction response code received from the processor. | Sessions | String (5) |
| ap_sessions_rflag | If the sessions request is unsuccessful, this field contains a one-word description of the error. | Sessions | String (50) |
| ap_sessions_rmsg | Message explaining the reply code ap_sessions_rcode. | Sessions | String (255) |
| ap_sessions_status | Status of the sessions request. | Sessions | String (15) |




Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|--------------------------|---|---|--------------------|
| | <p>Possible values:</p> <ul style="list-style-type: none"> • Created • Failed | | |
| ap_sessions_trans_ref_no | Reference number that you use to reconcile your Cybersource reports with your business reports. For more information about tracking orders, see Getting Started with Cybersource Advanced for the SCMP API (PDF HTML). | Sessions | String (127) |
| bill_address1 | <p>Customer's billing address.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (60) |
| bill_address2 | <p>Additional information in the customer's billing address.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (60) |
| bill_city | <p>Customer's billing city.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service,</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (50) |


Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|--------------|--|---|--------------------|
| | you must have this feature enabled on your PayPal account. Contact your PayPal account manager. | | |
| bill_country | <p>Customer's billing country. Use the two-character ISO Standard Country Codes.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (2) |
| bill_state | <p>State or province of the billing address. For an address in the U.S. or Canada, use the State, Province, and Territory Codes for the United States and Canada.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (2) |
| bill_zip | <p>Postal code for the billing address. The postal code must consist of 5 to 9 digits.</p> <p>When the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (10) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|--------------------|---|---|--------------------|
| | <p>Example: 12345-6789</p> <p>When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric]</p> <p>Example: A1B 2C3</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.</p> | | |
| customer_email | <p>Customer's email address, including the full domain name.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (255) |
| customer_firstname | <p>Customer's first name. For a credit card transaction, this name must match the name on the card.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (60) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|------------------------------|---|--|--------------------|
| | enabled on your PayPal account. Contact your PayPal account manager. | | |
| customer_lastname | <p>Customer's last name. For a credit card transaction, this name must match the name on the card.</p> <p> Note: To get the details of a customer's billing address from PayPal using the check status service, you must have this feature enabled on your PayPal account. Contact your PayPal account manager.</p> | <p>Billing Agreement</p> <p>Check Status</p> <p>Order</p> | String (60) |
| customer_verification_status | Possible values are VERIFIED or UNVERIFIED , depending on whether buyer has verified their identity. Used in case of Paypal transactions. | <p>Check Status</p> <p>Order</p> | String (60) |
| ics_rcode | <p>Indicates whether the service request was successful. Possible values:</p> <ul style="list-style-type: none"> • -1: An error occurred. • 0: The request was declined. • 1: The request was successful. | <p>Authorization</p> <p>Auth Reversal</p> <p>Billing Agreement</p> <p>Cancel</p> <p>Capture</p> <p>Check Status</p> <p>Order</p> <p>Refund</p> <p>Sale</p> <p>Sessions</p> | Integer (1) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|-----------------|---|---|--------------------|
| ics_rflag | One-word description of the result of the entire request. See Reply Flags. | Authorization Auth Reversal Billing Agreement Cancel Capture Check Status Order Refund Sale Sessions | String (50) |
| ics_rmsg | Message that explains the reply flag ics_rflag . Do not display this message to the customer, and do not use this field to write an error handler. | Authorization Auth Reversal Billing Agreement Cancel Capture Check Status Order Refund Sale Sessions | String (255) |
| merchant_ref_no | Merchant-generated transaction number or tracking number. Cybersource recommends that you send a unique value for each transaction so that you can | Billing Agreement Cancel Capture | String (50) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|------------------|--|--|--------------------|
| | perform meaningful searches for the transaction. For information about tracking orders and transactions, see Getting Started with Cybersource Advanced for the SCMP API . | Refund Sale Sessions | |
| request_id | Identifier for the request generated by the client. | All PayPal Express Checkout services | String (26) |
| ship_to_address1 | First line of the shipping address. | Billing Agreement Check Status Order | String (100) |
| ship_to_address2 | Second line of the shipping address. | Billing Agreement Check Status Order | String (100) |
| ship_to_city | City of the shipping address. | Billing Agreement Check Status Order | String (40) |
| ship_to_country | Country of the shipping address. Use the two-character ISO Standard Country Codes . | Billing Agreement Check Status Order | String (2) |
| ship_to_name | Name of the person receiving the product. The two name fields, ship_to_firstname and ship_to_lastname , are concatenated. The maximum combined size is 32 characters. If the size exceeds 32 characters, the name is truncated. | Billing Agreement Check Status Order | String (32) |
| ship_to_phone | Phone number for the shipping address. | Billing Agreement Check Status | String (20) |

Response Fields (continued)

| Field | Description | Returned By | Data Type & Length |
|---------------|--|--|--------------------|
| | | Order | |
| ship_to_state | State or province of the shipping address. Use the State, Province, and Territory Codes for the United States and Canada . | Billing Agreement Check Status Order | String (40) |
| ship_to_zip | Postal code for the shipping address. The postal code must consist of 5 to 9 digits. When the shipping country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] 12345-6789 When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric] A1B 2C3 | Billing Agreement Check Status Order | String (20) |

Service Examples

Sessions Service

Sessions Request

```
merchant_id=mid123
merchant_ref_number=1234
merchant_descriptor=merchantDesc
ap_payment_type=PPL
ics_applications=ics_ap_sessions
ap_sessions_success_url=http://www.example.com
ap_sessions_cancel_url=http://www.example.com
ship_to_firstname=Jane
ship_to_lastname=Smith
ship_to_address1=123 Main Street
ship_to_address2=Mailbox A
ship_to_city=Small Town
ship_to_state=CA
ship_to_zip=98765
ship_to_country=US
ship_to_phone=9876543210
shipping_method=FedEx
currency=USD
total_shipping_amount=5.00
total_shipping_discount_amount=5.00
total_handling_amount=3.00
sub_total_amount=90.00
total_tax_amount=2.00
grand_total_amount=95.00
offer0=amount:45.00^offer_id:0^merchant_product_sku:TestSKU^product_name:TestProduct^quantity:2^unit_tax_amount:1^product_code:default^product_description:TestDesc
```

Sessions Response

```
ap_sessions_currency=USD
ap_sessions_processor_transaction_id=PAY-8CK05691AS473025TLFJWGVA
ap_sessions_merchant_url=https://www.sandbox.paypal.com/cgi-bin/webscr?cmd=_express-checkout&token=EC-0F93368875071503X
ap_sessions_amount=95.00
ap_sessions_status=CREATED
ap_sessions_rflag=SOK
```

```
ap_sessions_rcode=1
ap_sessions_rmsg=Request was processed successfully.
ap_sessions_transaction_id=PAY-8CK05691AS473025TLFJWGVA
ap_sessions_trans_ref_no=489TGJL60000000000000000000J45CF2IM
currency=USD
request_id=4980896424596224104012
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
ics_rcode=1
merchant_ref_number=007
```

Order Service

Order Request

```
merchant_id=mid123
merchant_ref_number=1234
ap_payment_type=PPL
ics_applications=ics_ap_order
ap_payer_id=7FUDAXBNR5KSC
ap_sessions_request_id=4980396424596224104012
sub_total_amount=90.00
total_shipping_amount=3.00
currency=USD
grand_total_amount=95.00
total_tax_amount=2.00
total_handling_amount=3.00
offer0=amount:45.00^offer_id:0^merchant_product_sku:TestSKU^
product_name:TestProduct^quantity:2^unit_tax_amount:1^
product_code:default^product_description:TestDesc
```

Order Response

```
ap_order_status=CREATED
ap_payer_id=7FUDAXBNR5KSC
ap_order_currency=USD
ap_order_processor_response=ORDER
ap_order_amount=95.00
ap_order_id=0-4VB92211N0556811L
ap_order_trans_ref_no=489TGJL60000000000000000000J45CF2IM
ap_order_rflag=SOK
ap_order_processor_transaction_id=0-4VB92211N0556811L
ap_order_rmsg=Request was processed successfully.
ap_order_rcode=1
```



```
customer_firstname=Jane
customer_lastname=Smith
customer_email=jsmith@example.com
customer_verification_status=UNVERIFIED
bill_country=US
ship_to_firstname=Jane
ship_to_lastname=Smith
ship_to_address1=123 Main Street
ship_to_address2=Mailstop A
ship_to_city=Small Town
ship_to_state=CA
ship_to_zip=98765
ship_to_country=US
currency=USD
request_id=4986378480380170561911
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
ics_rcode=1
merchant_ref_number=1234
```

Cancel Service

Cancel Request

```
ap_order_request_id=4986017056191144634637
ap_payment_type=PPL
ics_applications=ics_ap_cancel
merchant_id=mid123
merchant_ref_number=1234
```

Cancel Response

```
ap_cancel_amount=95.00
ap_cancel_currency=USD
ap_cancel_processor_transaction_id=0-3FJ60259H1693494U
ap_cancel_rcode=1
ap_cancel_rflag=SOK
ap_cancel_rmsg=Request was processed successfully.
ap_cancel_status=CANCELLED
ap_cancel_trans_ref_no=061DI33L000000000000000000J0318UQU
ap_cancel_transaction_id=0-3FJ60259H1693494U
currency=USD
ics_rcode=1
ics_rflag=SOK
```

```
ics_rmsg=Request was processed successfully.  
merchant_ref_number=1234  
request_id=4891044306756198401540
```

Authorization Service

Authorization Request

```
currency=USD  
ap_order_request_id=4980405898776291704008  
ics_applications=ics_ap_auth  
grand_total_amount=95.00  
merchant_ref_number=1234  
ap_payment_type=PPL  
merchant_id=mid123
```

Authorization Response

```
ap_auth_payment_status=AUTHORIZED  
ap_auth_rflag=SOK  
ap_auth_rcode=1  
ap_auth_rmsg=Request was processed successfully.  
ap_auth_currency=USD  
ap_auth_transaction_id=7GY936406D044425X  
ap_auth_processor_transaction_id=7GY936406D044425X  
ap_auth_amount=95.00  
ics_rcode=1  
ics_rmsg=Request was processed successfully.  
ics_rflag=SOK  
request_id=4896155375886014701200  
currency=USD  
merchant_ref_number=1234
```

Authorization Reversal Service

Authorization Reversal Request

```
ap_auth_request_id=4896155375886014701200  
ap_payment_type=PPL  
ics_applications=ics_ap_auth_reversal
```

```
merchant_id=mid123
merchant_ref_number=1234
```

Authorization Reversal Response

```
ap_auth_reversal_amount=95.00
ap_auth_reversal_currency=USD
ap_auth_reversal_payment_status=AUTH_REVERSED
ap_auth_reversal_processor_transaction_id=O-3FJ60259H1693494U
ap_auth_reversal_rcode=1
ap_auth_reversal_rflag=SOK
ap_auth_reversal_rmsg=Request was processed successfully.
ap_auth_reversal_trans_ref_no=061DI33L0000000000000000000J0318URS
ap_auth_reversal_transaction_id=O-3FJ60259H1693494U
currency=USD
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=1234
request_id=4891044702126202201540
```

Capture Service

Capture Request

```
currency=USD
ics_applications=ics_ap_capture
grand_total_amount=95.00
merchant_id=mid123
merchant_ref_number=1234
ap_auth_request_id=4896155375886014701200
ap_payment_type=PPL
```

Capture Response

```
ap_capture_processor_response=None
ap_capture_rmsg=Request was processed successfully.
ap_capture_processor_transaction_id=8X013457PC2290547
ap_capture_rflag=SOK
ap_capture_trans_ref_no=489TENFL0000000000000000000J45CF0Q1
ap_capture_processor_transaction_fee=0.76
ap_capture_amount=95.00
ap_capture_rcode=1
```

```
ap_capture_currency=USD
ap_capture_payment_status=SETTLED
ap_capture_transaction_id=8X013457PC2290547
currency=USD
request_id=4986381533990170561911
ics_rmsg=Request was processed successfully.
ics_rcode=1
ics_rflag=SOK
merchant_ref_number=1234
```

Sale Service

Sale Request

```
currency=USD
ap_order_request_id=4986378480380170561911
ics_applications=ics_ap_sale
grand_total_amount=95.00
ap_payment_type=PPL
merchant_id=mid123
merchant_ref_number=1234
```

Sale Response

```
ap_sale_amount=95.00
ap_sale_rcode=1
ap_sale_processor_transaction_id=13N02928ME610273T
ap_sale_trans_ref_no=489TGJL60000000000000000000J45CF2IY
ap_sale_processor_transaction_fee=0.76
ap_sale_rmsg=Request was processed successfully.
ap_sale_payment_status=SETTLED
ap_sale_processor_response=None
ap_sale_rflag=SOK
request_id=4986017056191144634637
currency=USD
ics_rcode=1
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
merchant_ref_number=1234
```

Sale Service Request (for Reference Transaction)

```
merchant_id=mid123
```

```
merchant_ref_no=1234
merchant_descriptor=MerchantDesc
ap_order_request_id=4986378480380170561911
ics_applications=ics_ap_sale
ship_to_firstname=Jane
ship_to_lastname=Smith
ship_to_address1=123 Main Street
ship_to_address2=Mailstop A
ship_to_city=Small Town
ship_to_state=CA
ship_to_zip=98765
ship_to_country=US
ship_to_phone=9876543210
shipping_method=FedEx
amount=45.00
quantity=2
product_code=default
product_name=TestProduct
merchant_product_sku=TestSKU
currency=USD
total_tax_amount=2.00
grand_total_amount=95.00
sub_total_amount=90.00
total_shipping_amount=5.00
total_handling_amount=3.00
total_shipping_discount_amount=5.00
ap_payment_type=PPL
ap_billing_agreement_id=SOK-3FJ6025
ap_funding_source=unrestricted
```

Sale Service Reply (for Reference Transaction)

```
merchant_ref_no=1234
request_id=4980405898776291709999
ics_rcode=1
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
currency=USD
ap_seller_protection_eligibility=ELIGIBLE
ap_seller_protection_type=ITEM_NOT_RECEIVED_ELIGIBLE
ap_processor_fraud_decision=ACCEPT
ap_processor_fraud_decision_reason=AVS_NO_MATCH
ap_billing_agreement_id=B-WE812486D0938631
ap_payer_id=3N53BA8B3MCU4
ap_funding_source=INSTANT_TRANSFER
ap_sale_rcode=1
ap_sale_rmsg=Request was processed successfully.
ap_sale_rflag=SOK
```

```
ap_sale_payment_status=SETTLED
ap_sale_processor_transaction_id=SOK-3FJ6025
ap_sale_trans_ref_no=40HXQXLD0000J3XKJCQV
ap_sale_processor_transaction_fee=1.05
ap_sale_amount=100.00
ap_sale_date_time=2019-08-11T01:45:39Z
```

Refund Service

Refund Request

```
currency=USD
ap_refund_request_id=4986017056191144634637
ics_applications=ics_ap_refund
grand_total_amount=95.00
ap_payment_type=PPL
merchant_id=mid123
merchant_ref_number=1234
```

Refund Response

```
ap_refund_payment_status=REFUNDED
ap_refund_trans_ref_no=4IBDBJIA0000000000000000000J4FDYX1Q
ap_refund_transaction_id=1CJ708402E8883535
ap_refund_rmsg=Request was processed successfully.
ap_refund_rcode=1
ap_refund_processor_transaction_id=1CJ708402E8883535
ap_refund_rflag=SOK
ap_refund_amount=95.00
ap_refund_currency=USD
ics_rcode=1
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
currency=USD
request_id=4986383229080170561911
merchant_ref_number=1234
```

Billing Agreement Service

Billing Agreement Service Request

```
ap_payment_type=PPL
ap_sessions_request_id=4980896424596224104012
ics_applications=ics_ap_billing_agreement
merchant_id=mid123
merchant_ref_number=1234
```

Billing Agreement Service Response

```
merchant_ref_number=1234
request_id=4951322388236009001540
customer_firstname=Jane
customer_lastname=Smith
bill_address1=123 Main St
bill_city=Small Town
bill_zip=98765
bill_state=CA
bill_country=US
customer_email=jsmith@example.com
ship_to_firstname=Jane
ship_to_lastname=Smith
ship_to_address1=123 Main Street
ship_to_address2=Mailbox A
ship_to_city=Small Town
ship_to_state=CA
ship_to_zip=98765
ship_to_country=US
ics_rmsg=Request was processed successfully.
ics_rflag=SOK
ics_rcode=1
ap_payer_id=7FUDAXBNR5KSC
ap_billing_agreement_processor_transaction_id=B-54941083GY4736715
ap_billing_agreement_rflag=SOK
ap_billing_agreement_return_code=1900000
ap_billing_agreement_id=B-54941083GY4736715
ap_billing_agreement_rcode=1
ap_billing_agreement_status=ACTIVE
ap_billing_agreement_transaction_id=B-54941083GY4736715
ap_billing_agreement_rmsg=Request was processed successfully.
```

Check Status Examples

Sessions Service: Check Status

Check Status Request: Sessions Service

```
ap_check_status_request_id=4980896424596224104012
ap_payment_type=PPL
ics_applications=ics_ap_check_status
merchant_id=mid123
merchant_ref_number=1234
```

Check Status Response: Sessions Service

```
ap_check_status_payment_status=CREATED
ap_check_status_processor_transaction_id=PAY-0R555158DK731234HLDE777Q
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ap_check_status_trans_ref_no=0ELJXCHZ0000000000000000000J0BLF9SV
ap_payer_id=7FUDAXBNR5KSC
bill_address1=123 Main St
bill_city=Small Town
bill_country=US
bill_state=CA
bill_zip=98765
customer_email=jsmith@example.com
customer_firstname=Jane
customer_lastname=Smith
customer_verification_status=UNVERIFIED
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=ref456
request_id=4896334543256000801540
ship_to_address1=123 Main Street
ship_to_address2=Mailbox A
ship_to_city=Small Town
ship_to_country=US
ship_to_firstname=Jane
ship_to_lastname=Smith
ship_to_phone=9876543210
```



```
ship_to_state=CA
ship_to_zip=98765
```

Order Service: Check Status

Check Status Request: Order Service

```
ap_check_status_request_id=4986378480380170561911
ap_payment_type=PPL
ics_applications=ics_ap_check_status
merchant_id=mid123
merchant_ref_number=1234
```

Check Status Response: Order Service

```
ap_check_status_payment_status=CREATED
ap_check_status_processor_response=ORDER
ap_check_status_processor_transaction_id=0-5TD10988AD299315S
ap_check_status_rcode=1
ap_check_status_response_code=ORDER
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=1234
request_id=4896340284906001001540
```

Authorization Service: Check Status

Check Status Request: Authorization Service

```
ap_check_status_request_id=4896155375886014701200
ap_payment_type=PPL
ics_applications=ics_ap_check_status
merchant_id=mid123
merchant_ref_number=1234
```

Check Status Response: Authorization Service

```
ap_check_status_payment_status=ACTIVE
ap_check_status_processor_transaction_id=B-9EF75519WU0589818
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ap_check_status_response_code=AUTHORIZATION
ap_payer_id=3N53BA8B3MCU4
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=1234
request_id=4930650124116026401540
```

Capture Service: Check Status

Check Status Request: Capture Service

```
ap_check_status_request_id=4986381533990170561911
ap_payment_type=PPL
ics_applications=ics_ap_check_status
merchant_id=mid123
merchant_ref_number=1234
```

Check Status Response: Capture Service

```
ap_check_status_payment_status=SETTLED
ap_check_status_processor_transaction_id=68769626F32580414
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=1234
request_id=4897061555550146015409
```

Sale Service: Check Status

Check Status Request: Sale Service

```
ap_check_status_request_id=4986017056191144634637
ap_payment_type=PPL
ics_applications=ics_ap_check_status
merchant_id=mid123
merchant_ref_number=1234
```

Check Status Response: Sale Service

```
ap_check_status_payment_status=CREATED
ap_check_status_processor_response=ORDER
ap_check_status_processor_transaction_id=0-5TD10988AD299315S
ap_check_status_rcode=1
ap_check_status_response_code=ORDER
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=ref456
request_id=489634028490777754033
```

Refund Service: Check Status

Check Status Request: Refund Service

```
ap_check_status_request_id=4986017056191144634637
ap_payment_type=PPL
ics_applications=ics_ap_check_status
merchant_id=mid123
merchant_ref_number=1234
```

Check Status Response: Refund Service

```
ap_check_status_payment_status=SETTLED
ap_check_status_processor_transaction_id=68769626F32580414
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=123
```

```
request_id=489706183333301460154
```

Billing Agreement Service: Check Status

Check Status Request: Billing Agreement Service

```
ap_billing_agreement_id=SOK-3FJ6025
ap_payment_type=PPL
ics_applications=ics_ap_check_status
merchant_id=mid123
merchant_ref_number=1234
request_id=4951322388236009001540
```

Check Status Response: Billing Agreement Service

```
ap_check_status_payment_status=ACTIVE
ap_check_status_processor_transaction_id=B-9EF75519WU0589818
ap_check_status_rcode=1
ap_check_status_rflag=SOK
ap_check_status_rmsg=Request was processed successfully.
ap_payer_id=3N53BA8B3MCU4
bill_address1=123 Main St
bill_city=Small Town
bill_country=US
bill_state=CA
bill_zip=98765
customer_email=jsmith@example.com
customer_firstname=Jane
customer_lastname=Smith
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
merchant_ref_number=1234
request_id=4930650124116026401540
ship_to_address1=123 Main Street
ship_to_address2=Suite 1
ship_to_city=any Town
ship_to_country=US
ship_to_firstname=Jane
ship_to_lastname=Smith
ship_to_state=CA
```

ship_to_zip=98765

Response Flags

The table below describes the response flags returned by the SCMP API for the PayPal services. See [Getting Started with Cybersource Advanced for the SCMP API \(PDF\)](#) for a discussion of responses and response flags.

! Important: Because Cybersource can add response fields, response codes, and response flags at any time:

You must parse the response data according to the names of the fields instead of the field order in the response. For more information about parsing response fields, see the documentation for your client.

Your error handler should be able to process new response codes and response flags without problems.

Your error handler should use the **ics_rcode** field to determine the result if it receives a response flag that it does not recognize.

For a description of each processor response, see:

<https://developer.paypal.com/docs/api/payments/#errors>

Response Flags and Processor Responses

| Response Flag | Description | Processor Response |
|---------------|--|--|
| SOK | Successful transaction. | |
| ESYSTEM | General system failure. See the documentation for your Cybersource client for information about handling retries in the case of system errors. | DATA_RETRIEVAL DUPLICATE_REQUEST_ID INTERNAL_SERVICE_ERROR PAYMENT_REQUEST_ID_INVALID |
| DCARDEXPIRED | Expired card. You might also receive this value if the expiration date you provided does not match the date the issuing bank has on file. Possible action: Request a different card or other form of payment. | EXPIRED_CREDIT_CARD |

Response Flags and Processor Responses (continued)

| Response Flag | Description | Processor Response |
|-----------------|---|--|
| DCARDREFUSED | <p>General decline of the card. No other information was provided by the issuing bank.</p> <p>Possible action: Request a different card or other form of payment.</p> | <p>CREDIT_CARD_CVV_CHECK_FAILED</p> <p>CREDIT_CARD_REFUSED</p> |
| DPAYMENTREFUSED | <p>Possible reasons:</p> <ul style="list-style-type: none"> • Merchant account or payer's account is not set up to process such transactions. • Insufficient funds in the payer's funding source associated with the account, or transaction declined by bank. • A particular action is not permitted, for example: capture refused, or the authorization has already been captured. • Fraud setting for the seller is blocking such payments. <p>Payment approval by the buyer/payer has expired, and the merchant must restart the payment flow starting from payment creation and direct the customer back to PayPal.</p> <div>  Important: If an order or authorization returns an INSTRUMENT_DECLINED response, direct the customer to their PayPal login to select a different funding option and resubmit the order. Possible reasons for the INSTRUMENT_DECLINED response can include: </div> | <p>BUYER_NOT_SET</p> <p>CANNOT_PAY_SELF</p> <p>CANNOT_REAUTH_CHILD_AUTHORIZATION</p> <p>CANNOT_REAUTH_INSIDE_HONOR_PERIOD</p> <p>CREDIT_PAYMENT_NOT_ALLOWED</p> <p>EXPIRED_CREDIT_CARD_TOKEN</p> <p>FAILED_TO_CHARGE_CC</p> <p>FEATURE_UNSUPPORTED_FOR_PAYEE</p> <p>FULL_REFUND_NOT_ALLOWED_AFTER_PARTIAL_REFUND</p> <p>IMMEDIATE_PAY_NOT_SUPPORTED</p> <p>INSTRUMENT_DECLINED</p> <p>INSUFFICIENT_FUNDS</p> <p>INVALID_FACILITATOR_CONFIGURATION</p> <p>MAXIMUM_ALLOWED_AUTHORIZATION_REACHED_FOR_ORDER</p> |

Response Flags and Processor Responses (continued)

| Response Flag | Description | Processor Response |
|---------------|---|--|
| | <ul style="list-style-type: none"> The billing address associated with the financial instrument could not be confirmed. The transaction exceeds the card limit. <p>The transaction was denied by the card issuer.</p> | <p>MERCHANT_NOT_ENABLED_FOR_CHANNEL_INITIATED_BILLING</p> <p>MERCHANT_NOT_ENABLED_FOR_REFERENCE_TRANSACTION</p> <p>NEED_CREDIT_CARD</p> <p>NEED_CREDIT_CARD_OR_BANK_ACCOUNT</p> <p>NOT_IMPLEMENTED</p> <p>NO_EXTERNAL_FUNDING_DETAILS_FOUND</p> <p>ORDER_ALREADY_COMPLETED</p> <p>ORDER_VOIDED</p> <p>PAYEE_ACCOUNT_LOCKED_OR_CLOSED</p> <p>PAYEE_ACCOUNT_NO_CONFIRMED_EMAIL</p> <p>PAYEE_ACCOUNT_RESTRICTED</p> <p>PAYEE_BLOCKED_TRANSACTION</p> <p>PAYEE_COUNTRY_NOT_ENABLED</p> <p>PAYER_ACCOUNT_RESTRICTED</p> <p>PAYER_ACTION_REQUIRED</p> <p>PAYER_AUTHENTICATION_REQUIRED</p> |

Response Flags and Processor Responses (continued)

| Response Flag | Description | Processor Response |
|---------------|-------------|--------------------------------------|
| | | PAYER_CANNOT_PAY |
| | | PAYER_COUNTRY_NOT_ENABLED |
| | | PAYMENT_ALREADY_DONE |
| | | PAYMENT_APPROVAL_EXPIRED |
| | | PAYMENT_CANNOT_BE_INITIATED |
| | | PAYMENT_DENIED |
| | | PAYMENT_EXPIRED |
| | | PAYMENT_METHOD_UNUSABLE |
| | | PAYMENT_NOT_APPROVED_FOR_EXECUTION |
| | | PAYMENT_STATE_INVALID |
| | | REDIRECT_PAYER_FOR_ALTERNATE_FUNDING |
| | | REFUND_EXCEEDED_TRANSACTION_AMOUNT |
| | | REFUND_TIME_LIMIT_EXCEEDED |
| | | REQUIRED_SCOPE_MISSING |
| | | SENDING_LIMIT_EXCEEDED |
| | | TOO_MANY_REAUTHORIZATIONS |
| | | TRANSACTION_ALREADY_REFUNDED |

Response Flags and Processor Responses (continued)

| Response Flag | Description | Processor Response |
|---------------|--|--|
| | | TRANSACTION_LIMIT_EXCEEDED TRANSACTION_REFUSED TRANSACTION_REFUSED_BY_PAYPAL_RISK TRANSACTION_REFUSED_PAYEE_PREFERENCE UNSUPPORTED_PAYEE_COUNTRY UNSUPPORTED_PAYEE_CURRENCY UNSUPPORTED_SEPA_BANK |
| DINVALIDDATA | Invalid account number. Possible action: Request a different card or other form of payment. | BANK_ACCOUNT_VALIDATION_FAILED |
| DINVALIDDATA | General decline by the processor. | AMOUNT_MISMATCH AGREEMENT_ALREADY_CANCELLED BATOKEN_MISMATCH BANK_MRN_MISMATCH BUYER_COUNTRY_NOT_ENABLED CURRENCY_MISMATCH CURRENCY_NOT_ALLOWED EXECUTE_AGREEMENT_BUYER_NOT_ACCEPTED EXECUTE_AGREEMENT_ALREADY_CREATED |

Response Flags and Processor Responses (continued)

| Response Flag | Description | Processor Response |
|---------------|---|---|
| | | EXECUTE_AGREEMENT_DOES_NOT_OWN_TOKEN INVALID_ARGUMENT INVALID_CITY_STATE_ZIP INVALID_EXPERIENCE_PROFILE_ID INVALID_PAYER_ID MERCHANT_COUNTRY_NOT_ENABLED REFUSED_MARK_REF_TXN_NOT_ENABLED PAYER_INFO_NULL PAYER_EMPTY_BILLING_ADDRESS PAYER_ID_MISSING_FOR_CARD_TOKEN PHONE_NUMBER_REQUIRED RT_AGREEMENT_ALREADY_CANCELED SELECTED_PLAN_NOT_AVAILABLE SHIPPING_ADDRESS_INVALID |
| DINVALIDDATA | <p>The requested capture amount exceeds the originally authorized amount.</p> <p>Possible action: Issue a new authorization and capture request for the new amount.</p> | CAPTURE_AMOUNT_LIMIT_EXCEEDED |
| DINVALIDDATA | The authorization has already been reversed. | AUTHORIZATION_VOIDED |

Response Flags and Processor Responses (continued)

| Response Flag | Description | Processor Response |
|---------------|--|---|
| | Possible action: No action required. | |
| DNOAUTH | <p>You requested a capture, but there is no corresponding, unused authorization record. Occurs if there was not a previously successful authorization request or if the previously successful authorization has already been used by another capture request.</p> <p>Possible action: Request a new authorization, and if successful, proceed with the capture.</p> | <p>AUTHORIZATION_EXPIRED</p> <p>AUTHORIZATION_ID_DOES_NOT_EXIST</p> |
| DNOTVOIDABLE | <p>One of the following:</p> <ul style="list-style-type: none">• The capture is not voidable because the capture information has already been submitted to your processor. <p>- or -</p> <ul style="list-style-type: none">• You requested a void for a type of transaction that cannot be voided. <p>Possible action: No action required.</p> | <p>AUTHORIZATION_CANNOT_BE_VOIDED</p> <p>ORDER_CANNOT_BE_VOIDED</p> |