



SOAP API Developer Reference

Last updated: 26 November 2008

SOAP API Developer Reference

Document Number: 100002.en_US20081126

© 2008 PayPal, Inc. All rights reserved. PayPal is a registered trademark of PayPal, Inc. The PayPal logo is a trademark of PayPal, Inc. Other trademarks and brands are the property of their respective owners.

The information in this document belongs to PayPal, Inc. It may not be used, reproduced or disclosed without the written approval of PayPal, Inc. Copyright © PayPal. All rights reserved. PayPal S.à r.l. et Cie, S.C.A., Société en Commandite par Actions. Registered office: 22-24 Boulevard Royal, L-2449, Luxembourg, R.C.S. Luxembourg B 118 349

Consumer advisory: The PayPal™ payment service is regarded as a stored value facility under Singapore law. As such, it does not require the approval of the Monetary Authority of Singapore. You are advised to read the terms and conditions carefully.

Notice of non-liability:

PayPal, Inc. is providing the information in this document to you "AS-IS" with all faults. PayPal, Inc. makes no warranties of any kind (whether express, implied or statutory) with respect to the information contained herein. PayPal, Inc. assumes no liability for damages (whether direct or indirect), caused by errors or omissions, or resulting from the use of this document or the information contained in this document or resulting from the application or use of the product or service described herein. PayPal, Inc. reserves the right to make changes to any information herein without further notice.

Contents

| | |
|---|-----------|
| Preface | 9 |
| This Document | 9 |
| Intended Audience | 9 |
| Revision History | 9 |
| Chapter 1 PayPal SOAP API Overview | 11 |
| Services Architecture | 11 |
| PayPal WSDL/XSD Schema Definitions | 12 |
| API Concepts and Terminology | 12 |
| Security | 13 |
| SOAP RequesterCredentials: Username, Password, Signature, and Subject | 14 |
| SOAP Service Endpoints | 15 |
| SOAP Implementation | 15 |
| SOAP Message Style: doc-literal | 15 |
| SOAP Request Envelope | 15 |
| Request Structure | 16 |
| Response Structure | 17 |
| Error Responses | 19 |
| CorrelationID for Reporting Problems to PayPal | 20 |
| PayPal SOAP API Definitions | 21 |
| Character Encoding, Data Types and Formats, and Currencies | 21 |
| Chapter 2 Authorization and Capture API Operation Reference | 23 |
| DoCapture API | 23 |
| DoCapture Request | 24 |
| DoCapture Response | 26 |
| DoAuthorization API | 29 |
| DoAuthorization Request | 30 |
| DoAuthorization Response | 30 |
| DoReauthorization API | 30 |
| DoReauthorization Request | 31 |
| DoReauthorization Response | 31 |
| DoVoid API | 31 |

| | |
|---|------------|
| DoVoid Request | 32 |
| DoVoid Response | 32 |
| Chapter 3 DoDirectPayment API | 33 |
| DoDirectPayment Request | 34 |
| DoDirectPayment Response | 45 |
| Chapter 4 Express Checkout API Operations | 49 |
| SetExpressCheckout API | 49 |
| SetExpressCheckout Request | 49 |
| SetExpressCheckout Response | 60 |
| GetExpressCheckoutDetails API | 60 |
| GetExpressCheckoutDetails Request | 62 |
| GetExpressCheckoutDetails Response | 62 |
| DoExpressCheckoutPayment API | 71 |
| DoExpressCheckoutPayment Request | 72 |
| DoExpressCheckoutPayment Response | 77 |
| Chapter 5 GetTransactionDetails API | 83 |
| GetTransactionDetails Request | 84 |
| GetTransactionDetails Response | 85 |
| Chapter 6 MassPay API | 97 |
| MassPay Request | 97 |
| MassPay Response | 99 |
| Chapter 7 RefundTransaction API | 101 |
| RefundTransaction Request | 102 |
| RefundTransaction Response | 102 |
| Chapter 8 TransactionSearch API | 105 |
| TransactionSearch Request | 105 |
| TransactionSearch Response | 108 |

Chapter 9 Recurring Payments and Reference Transactions API Operations

| | |
|---|-----|
| CreateRecurringPaymentsProfile API | 111 |
| CreateRecurringPaymentsProfile Request | 112 |
| CreateRecurringPaymentsProfile Response | 124 |
| GetRecurringPaymentsProfileDetails API | 124 |
| GetRecurringPaymentsProfileDetails Request | 125 |
| GetRecurringPaymentsProfileDetails Response | 126 |
| ManageRecurringPaymentsProfileStatus API | 135 |
| ManageRecurringPaymentsProfileStatus Request | 136 |
| ManageRecurringPaymentsProfileStatus Response | 136 |
| BillOutstandingAmount API | 137 |
| BillOutstandingAmount Request | 138 |
| BillOutstandingAmount Response | 138 |
| UpdateRecurringPaymentsProfile API | 139 |
| UpdateRecurringPaymentsProfile Request | 140 |
| UpdateRecurringPaymentsProfile Response | 149 |
| SetCustomerBillingAgreement API | 149 |
| SetCustomerBillingAgreement Request | 150 |
| SetCustomerBillingAgreement Response | 153 |
| GetBillingAgreementCustomerDetails API | 153 |
| GetBillingAgreementCustomerDetails Request | 154 |
| GetBillingAgreementCustomerDetails Response | 154 |
| BAUpdate API | 157 |
| BAUpdate Request | 158 |
| BAUpdateResponseDetails Response | 159 |
| DoReferenceTransaction API | 163 |
| DoReferenceTransaction Request | 164 |
| DoReferenceTransaction Response | 174 |

Chapter 10 DoNonReferencedCredit API 179

| | |
|--|-----|
| DoNonReferencedCredit Request | 179 |
| DoNonReferencedCredit Response | 183 |

Chapter 11 ManagePendingTransactionStatus API 185

| | |
|---|-----|
| ManagePendingTransactionStatus Request | 185 |
| ManagePendingTransactionStatus Response | 185 |

| | |
|---|------------|
| Chapter 12 GetBalance API | 187 |
| GetBalance Request | 187 |
| GetBalance Response | 187 |
| Chapter 13 AddressVerify API | 189 |
| AddressVerify Request | 190 |
| AddressVerify Response | 190 |
| Chapter A API Error Codes | 193 |
| General API Errors | 194 |
| Validation Errors | 195 |
| Direct Payment API Errors | 199 |
| SetExpressCheckout API Errors | 211 |
| GetExpressCheckoutDetails API Errors | 220 |
| DoExpressCheckoutPayment API Errors | 222 |
| Authorization and Capture API Errors | 227 |
| GetTransactionDetails API Errors | 231 |
| TransactionSearch API Errors | 231 |
| RefundTransaction API Errors | 233 |
| Mass Pay API Errors | 236 |
| Recurring Payments Errors | 238 |
| SetCustomerBillingAgreement Errors | 245 |
| GetBillingAgreementCustomerDetails Errors | 247 |
| CreateBillingAgreement Errors | 247 |
| UpdateBillingAgreement Errors | 249 |
| DoReferenceTransaction Errors | 249 |
| AddressVerify API Errors | 256 |
| ManagePendingTransactionStatus API Errors | 256 |
| Chapter B Country Codes | 257 |
| Chapter C State and Province Codes | 267 |
| Chapter D Currency Codes | 271 |

| | |
|--|------------|
| Chapter E AVS and CVV2 Response Codes | 273 |
| AVS Response Codes | 273 |
| CVV2 Response Codes | 275 |

Preface

This Document

This document describes the PayPal SOAP Application Programming Interface (API) and service.

Intended Audience

This document is written for programmers familiar with application programming standards such as the Simple Object Access Protocol (SOAP), the Web Services Description Language (WSDL), and XML Schema Definition (XSD) language.

Revision History

Revision history for *SOAP API Developer Reference*.

TABLE P.1 Revision History

| Date | Description |
|---------------|---|
| 26 Nov. 2008 | Updated information for 55.0. |
| 23 Sept. 2008 | Added information about using billing agreements with SetExpressCheckout. |
| 3 Sept. 2008 | Added information about payment review to GetTransactionDetails. |
| June 2008 | Rearranged material, added error codes, and moved some material to the <i>Express Checkout Integration Guide</i> . |
| April 2008 | Added Fraud Management Filters information. Changed recurring payments information. |
| February 2008 | Added that the VERSION parameter must be 50.0 in the API call to use recurring payments |
| January 2008 | <ul style="list-style-type: none">• Added billing agreement fields to SetExpressCheckout for recurring payments• Updated CreateRecurringPaymentsProfile for new recurring payments features.• Added new recurring payments APIs• Added new DoNonReferencedCredit API |

TABLE P.1 Revision History

| Date | Description |
|----------------|--|
| September 2007 | <ul style="list-style-type: none"> • Update eBay auctions for Express Checkout section • Added fields for the giropay payment method to Express Checkout APIs • Added soft descriptor field to DoCapture • Added Direct Payment error 10571. |
| August 2007 | Updated DoCapture, DoReferenceTransaction and related error codes. |
| May 2007 | Added Recurring Payments APIs: SetCustomerBillingAgreement, GetBillingAgreementCustomerDetails, and CreateRecurringPaymentsProfile. |
| March 2007 | Minor bug fixes including adding Switch/Solo codes to AVS Response Codes and CVV2 Response Codes in Direct Payment API chapter. |
| February 2007 | Minor bug fixes. |
| December 2006 | Minor bug fixes. |
| October 2006 | Book renamed SOAP API Developer Reference. Former books for the SOAP SDKs now included in this one volume. |
| June 2006 | CardNumber field added to TransactionSearch API. Significantly improved error messages for Direct Payment API. Minor change to one Mass Pay API error message. |
| March 2006 | Updated for new API credential: API signatures. New SOAP service endpoint for signatures. Miscellaneous minor corrections throughout. |
| January 2006 | Additional error messages for Authorization & Capture APIs and Express Checkout APIs. |
| December 2005 | Removed erroneous description that stated that the SetExpressCheckoutRequest field <code>cpp-header-image</code> must be URL-encoded. |

1

PayPal SOAP API Overview

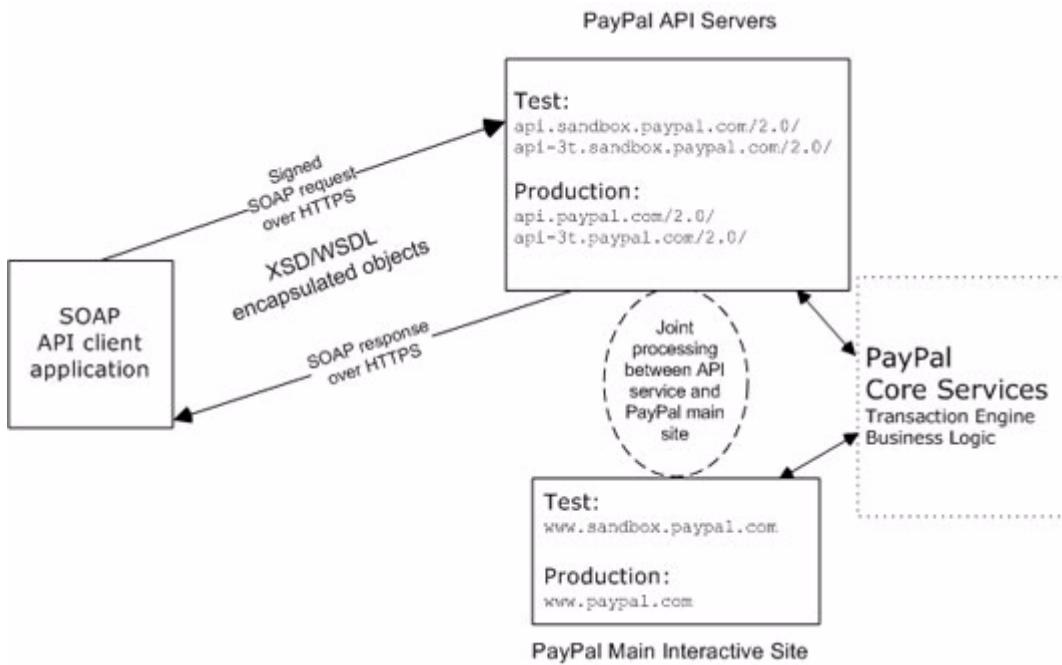
The PayPal SOAP API provides programmatic access to PayPal features and services.

Developers can build custom applications, tools, and services that correspond to the same services and tools available through the main PayPal website, <https://www.paypal.com/>. Typical applications include searching for transactions, paying en masse, and making refunds. The API is based on open standards known collectively as “Web Services,” which include the Simple Object Access Protocol (SOAP), Web Services Definition Language (WSDL), and the XML Schema Definition language (XSD). These standards are supported by a wide range of development tools on a variety of platforms.

Services Architecture

Like many web services, PayPal SOAP is a combination of client-side and server-side schemas, hardware and software servers, and core services.

PayPal SOAP High-level Diagram



In an object-oriented processing model, the interface to SOAP requests/responses is an object in your application’s native programming language. Your third-party SOAP client generates business-object interfaces and network stubs from PayPal-provided WSDL and XSD files that specify the PayPal SOAP message structure, its contents, and the PayPal API service bindings.

A business application works with data in the form of object properties to send and receive data by calling object methods. The SOAP client handles the details of building the SOAP request, sending it to the PayPal service, and converting the response back to an object.

PayPal WSDL/XSD Schema Definitions

The PayPal Web Services schema and its underlying eBay Business Language (eBL) base and core components are required for developing applications with the PayPal Web Services API. The following are the locations of the WSDL and XSD files.

Location of PayPal WSDL and XSD Files

Development and Test with the PayPal Sandbox API Service

| | |
|---|--|
| PayPal Schema | https://www.sandbox.paypal.com/wsdl/PayPalSvc.wsdl |
| eBL Base Components and Component Types | https://www.sandbox.paypal.com/wsdl/eBLBaseComponents.xsd https://www.sandbox.paypal.com/wsdl/CoreComponentTypes.xsd |

Production with Live PayPal Web Services API Service

| | |
|---|--|
| PayPal Schema | https://www.paypal.com/wsdl/PayPalSvc.wsdl |
| eBL Base Components and Component Types | http://www.paypal.com/wsdl/eBLBaseComponents.xsd http://www.paypal.com/wsdl/CoreComponentTypes.xsd |

API Concepts and Terminology

Here are some basic concepts and terminology relating to PayPal's API service and security authentication.

Basic PayPal API Set-up Concepts and Terminology

| Term | Definition |
|---------------------------|---|
| API Calls | PayPal Application Programming Interface services, by which companies can make payments, search transactions, refund payments, view transaction information, and other business functions. |
| API Certificate | Mutually exclusive with API Signature. A PayPal-generated unique digital certificate file that you download from the PayPal website and use on the client computer to encrypt the HTTPS requests of your API calls to PayPal's API server. An API certificate is suitable if you have complete control over your own web server. |
| API Signature | Mutually exclusive with API Signature. A PayPal-generated unique digital signature (a line of text, or hash) that you copy from PayPal's website and include in your API calls. An alternative to API Certificate security. Your digital signature, your API username, and your API password all together are called three-token authentication, because you include each of them as a programmatic token in your API calls. An API signature is suitable for use with Microsoft Windows web servers or other shared web server configurations, such as those used by web hosting services. |
| API Username and Password | A PayPal-generated identifying account name and password that you use specifically for making API calls. You include your API username and password with every API call. The API username and password are different from your PayPal login username (email address) and password. |
| Subject authorization | An indicator in an API call of the account for whom the call is being made. This is the programmatic aspect of third-party authorization. The value of the Subject field is the third-party's Paypal email address. |
| First-Party Access | A company makes API calls itself from its own server to PayPal's server. The company has its own API certificate or API signature, username, and password. Example: A staff programmer for a merchant's company obtains a PayPal-issued API certificate file and makes API calls for the company from the company's own web server. |
| Third-Party Access | Another person or company makes API calls on the your behalf. You grant the third-party your permission to make API calls for you. Example: A web hosting service has its own API certificate, API username, and API password. Its customers, who are merchants that use PayPal, give the hosting service their permission to make API calls on their behalf. The hosting service includes a merchant's PayPal email address in the "Subject" field of an API call. |

Security

The PayPal SOAP API service is protected to ensure that only authorized PayPal members use it. There are four levels of security:

1. A required API username (Username field) and API password (Password field)
2. A third required authentication mechanism, which is either one of the following:

- Client-side request signing via a PayPal-issued API Certificate
 - Request authentication via an API Signature included in the request (Signature field)
3. An optional third-party authorization to make the API call on some other account's behalf (the optional Subject field).
 4. Secure Sockets Layer (SSL) data transport

A failure of authenticated security at any one of these levels denies access to the PayPal SOAP API service.

SOAP RequesterCredentials: Username, Password, Signature, and Subject

For the security of your business, PayPal must verify that merchants or third-party developers are permitted to initiate a transaction before they make one. PayPal authenticates each request. If the request cannot be authenticated, a SOAP security fault is returned.

In the SOAP request header, your SOAP client must set the Username, Password elements to pass an API username/password combination. In addition, you can set the Signature or Subject elements to specify your API signature string and an optional third-party account email address for authentication. The following is a partial example of the RequesterCredentials elements required for all SOAP requests. For a correlation of these elements to the generic structure of an entire SOAP request, see “[Request Structure](#)” on [page 16](#).

```
<SOAP-ENV:Header>
  <RequesterCredentials xmlns="urn:ebay:api:PayPalAPI"
    xsi:type="ebL:CustomSecurityHeaderType">
    <Credentials xmlns="urn:ebay:apis:eBLBaseComponents"
      xsi:type="ebL:UserIdPasswordType">
      <Username>api_username</Username>
      <Password>api_password</Password>
      <Signature>api_signature</Signature>
      <Subject>authorizing_account_emailaddress</Subject>
    </Credentials>
  </RequesterCredentials>
</SOAP-ENV:Header>
```

where:

RequesterCredentials Authentication Elements in SOAP Header

| Element | Value | Description |
|------------|--------------|---|
| <Username> | api_username | Your API username, which is auto-generated by PayPal when you apply for a digital certificate to use the PayPal SOAP API. You can see this value on https://www.paypal.com/ in your Profile under API Access > API Certificate Information . |
| <Password> | api_password | Your API password, which you specify when you apply for a digital certificate to use the PayPal SOAP API. |

| Element | Value | Description |
|-------------|----------------------------------|---|
| <Signature> | api_signature | Your API signature, if you use one instead of an API Certificate. |
| <Subject> | authorizing_account_emailaddress | The email address of a third-party for whom you are sending requests to the PayPal SOAP API. Your API username must have been granted permission by this third-party to make any particular PayPal API request. |

SOAP Service Endpoints

Depending on your chosen authentication mechanism, your SOAP requests must be processed by different service endpoints.

SOAP Service Endpoints

| Authentication Mechanism | Live Production Endpoint | Test (Sandbox) Endpoint |
|--------------------------|---|---|
| API Signature | https://api-3t.paypal.com/2.0/ | https://api-3t.sandbox.paypal.com/2.0/ |
| API Certificate | https://api.paypal.com/2.0/ | https://api.sandbox.paypal.com/2.0/ |

SOAP Implementation

This section contains information about the PayPal SOAP implementation.

SOAP Message Style: doc-literal

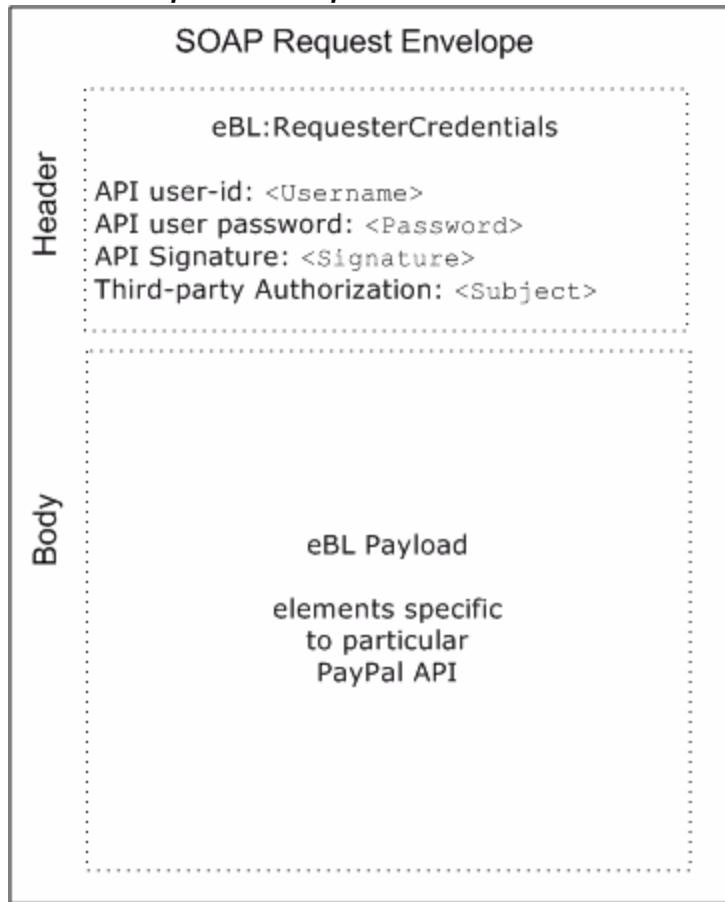
PayPal uses doc-literal SOAP messaging, not rpc-encoding. With doc-literal, a single service interface call passes an XML document in the request to the PayPal API server, which responds with an XML document instance.

SOAP Request Envelope

The following diagram illustrates the contents of a PayPal SOAP request envelope.

All PayPal APIs are based on two core structures: `AbstractRequestType` and `AbstractResponseType`.

Diagram of SOAP Request Envelope



Request Structure

The following is an annotated description of the SOAP request structure required by the PayPal SOAP API.

General Structure of PayPal API SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:xsi= " http://www.w3.org/2001/XMLSchema-instance"
    xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<SOAP-ENV:Header>
    <RequesterCredentials xmlns="urn:ebay:api:PayPalAPI">
        <Credentials xmlns="urn:ebay:apis:eBLBaseComponents">
            <Username>api_username</Username>
            <Password>api_password</Password>
```

```

<Signature/>
<Subject/>
</Credentials>
</RequesterCredentials>
</SOAP-ENV:Header>
<SOAP-ENV:Body>
  <specific_api_name_Req xmlns="urn:ebay:api:PayPalAPI">
    <specific_api_name_Request>
      <Version xmlns=urn:ebay:apis:eBLBaseComponents>service_version
      </Version>
      <required_or_optional_fields xsi:type="some_type_here">data
      </required_or_optional_fields>
    </specific_api_name_Request>
  </specific_api_name_Req>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

Annotation of Generic SOAP Request

| Lines | Comment |
|---------------|--|
| 12, 13 | The <Username> and <Password> fields are part of the PayPal SOAP API <RequesterCredentials> security authentication mechanism you must construct for every SOAP request header. For details, see “ SOAP RequesterCredentials: Username, Password, Signature, and Subject ” on page 14. |
| 14 | The <Signature> element should include your API signature string if that is the kind of API credential you are using. For more details, see “ RequesterCredentials Authentication Elements in SOAP Header ” on page 14. |
| 15 | The <Subject> element can specify a third-party PayPal account by whom you are authorized to make this request. For more details, see “ RequesterCredentials Authentication Elements in SOAP Header ” on page 14. |
| 19 through 27 | The SOAP request for every PayPal API follows this element naming pattern. The API’s specific name is appended with Req, and in this element the specific_api_name_Request is nested. Each specific_api_name_Request has a corresponding specific_api_name_RequestType. |
| 22 | The number of the PayPal SOAP API version is required on each SOAP request. This version number is the value of ns:version in https://www.paypal.com/wsdl/PayPalSvc.wsdl . |
| 24 | For details about required and optional elements and values for specific requests, see the description of individual APIs. |

Response Structure

The following is an annotated description of the structure of a SOAP response from the PayPal API where response is Success:

PayPal SOAP API Overview

SOAP Implementation

```
<?xml version="1.0"?>
<SOAP-ENV:Envelope
    xmlns:SOAP-ENV= "http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:cc="urn:ebay:apis:CoreComponentTypes"
    xmlns:wsu="http://schemas.xmlsoap.org/ws/2002/07/utility"
    xmlns:saml="urn:oasis:names:tc:SAML:1.0:assertion"
    xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
    xmlns:wsse="http://schemas.xmlsoap.org/ws/2002/12/secext"
    xmlns:ebl="urn:ebay:apis:eBLBaseComponents"
    xmlns:ns="urn:ebay:api:PayPalAPI">
    <SOAP-ENV:Header>
        <Security
            xmlns="http://schemas.xmlsoap.org/ws/2002/12/secext"
            xsi:type="wsse:SecurityType"
        />
        <RequesterCredentials xmlns="urn:ebay:api:PayPalAPI"
            xsi:type="ebl:CustomSecurityHeaderType">
            <Credentials
                xmlns="urn:ebay:apis:eBLBaseComponents"
                xsi:type="ebl:UserIdPasswordType"
            />
        </RequesterCredentials>
    </SOAP-ENV:Header>
    <SOAP-ENV:Body id="_0">
        <specific_api_name_Response xmlns="urn:ebay:api:PayPalAPI">
            <Timestamp xmlns="urn:ebay:api:PayPalAPI"> dateTime_in_UTC/GMT
            </TIMESTAMP>
            <Ack xmlns="urn:ebay:apis:eBLBaseComponents">Success</Ack>
            <Version xmlns="urn:ebay:apis:eBLBaseComponents">
                serviceVersion
            </Version>
            <CorrelationId xmlns="urn:ebay:apis:eBLBaseComponents">
                applicationCorrelation
            </CorrelationID>
            <Build xmlns="urn:ebay:apis:eBLBaseComponents">
                api_build_number
            </Build>
            <elements_for_specific_api_response> data
            </elements_for_specific_api_response>
        </specific_api_name_Response>
    </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Annotation of Generic SOAP Response

| Lines | Comment |
|---------------|---|
| 22 and 31 | The specific_api_name_Response start and end elements. |
| 23 | Each API response contains a timestamp with its date and time in UTC/GMT. |
| 24 | The <Ack> element contains the string Success after the corresponding request has been successfully processed. In the case of errors, Ack is set to a value other than Success, and the response body contains an <Errors> element with information to help you troubleshoot the cause of the error. See “Error Responses” on page 19. |
| 26 | The <CorrelationID> element contains information about the PayPal application that processed the request. Use the value of this element if you need to troubleshoot a problem with one of your requests. |
| 27 through 30 | The different PayPal APIs return different structures depending on their response definitions. For detailed information, see the description of the individual APIs. NOTE: Because a field is defined in the formal structure of an API response does not mean that that field is necessarily returned. Data are returned in a response only if PayPal has recorded data that corresponds to the field. |

Error Responses

If a request is malformed or some other error, the body of the SOAP response contains an <Errors> element with other elements that can help you troubleshoot the cause of the error. The most important of these additional elements are as follows:

- ShortMessage
- LongMessage
- ErrorCode

The following example shows the error response if your API username and password do not match a legitimate API username and password on file with PayPal.

Example of SOAP Error Response: Bad Username or Password

```
<?xml version="1.0" encoding="UTF-8"?>
<S O A P - E N V: En ve l op e de ta il s
not show n>
<S O A P-E N V: Header>... details not shown.</S O A P-E N V: Header>
<S O A P-E N V: Body id="_0">
<GetTransactionDetailsResponse xmlns="urn:ebay:api:PayPalAPI">
<Timestamp xmlns="urn:ebay:apis:eBLBaseComponents">
    2005-02-09T21:51:26Z
</Timestamp>
<Ack xmlns="urn:ebay:apis:eBLBaseComponents">Failure</Ack>
<Errors
    xmlns="urn:ebay:apis:eBLBaseComponents"
    xsi:type="ebl:ErrorType">
    <ShortMessage xsi:type="xs:string">
        Authentication/Authorization Failed
    </ShortMessage>
    <LongMessage xsi:type="xs:string">
        Username/Password is incorrect
    </LongMessage>
    <ErrorCode xsi:type="xs:token">10002</ErrorCode>
    <SeverityCode xmlns="urn:ebay:apis:eBLBaseComponents">
        Error
    </SeverityCode>
</Errors>
<CorrelationID xmlns="urn:ebay:apis:eBLBaseComponents">
    debugging_info
</CorrelationID>
<Version xmlns="urn:ebay:apis:eBLBaseComponents">
    1.000000
</Version>
<Build xmlns="urn:ebay:apis:eBLBaseComponents">1.0006</Build>.
other elements in response.</S O A P-E N V: Body>
</S O A P-E N V: Envelope>
```

CorrelationID for Reporting Problems to PayPal

The value returned in CorrelationID is important for PayPal to determine the precise cause of any error you might encounter. If you have to troubleshoot a problem with your requests, we suggest that you capture the value of CorrelationID so you can report it to PayPal.

PayPal SOAP API Definitions

The PayPal SOAP API comprises individual API definitions for specific business functions. As a foundation, the API relies on eBay Business Language (eBL) base and core components. The core eBL structures `AbstractRequestType` and `AbstractResponseType` are the basis of the SOAP request and response of each PayPal API. `AbstractResponseType` is also the framework for error messages common across all PayPal APIs.

PayPal has made some schema design decisions that can affect how businesses design their own applications.

- **Enumerations:** Enumerations are defined directly in the PayPal API schema.
- **Troubleshooting information:** The PayPal API returns information about elements that trigger errors.
- **Backward compatibility:** The PayPal API is versioned so that business applications are backward compatible when new elements are introduced to the server-side schema.

NOTE: eBL defines many structures that are specific to processing auctions. PayPal's SOAP schema includes these definitions to maintain compatibility with eBay's SOAP and for possible future joint use of SOAP across both eBay and PayPal. The material in this book focuses only on those SOAP definitions pertinent to use of the PayPal SOAP API.

Character Encoding, Data Types and Formats, and Currencies

This section details allowed character encoding and character sets, date data types, and formats.

UTF-8 Character Encoding

The PayPal SOAP API service assumes that all data in SOAP requests is in Unicode, specifically, the Unicode (or UCS) Transformation Format, 8-bit encoding form (UTF-8).

In SOAP responses, the service always returns data in UTF-8.

Date/Time Formats

The PayPal SOAP API schema defines date/time values as Coordinated Universal Time (UTC/GMT), using ISO 8601 format, and of type `ns:dateTime`. An example date/time stamp is 2006-08-24T05:38:48Z

Core Currency Amount Data Type

The core currency amount data type is call `BasicAmountType` and is derived from `string`, and all currency amount fields have the following structure:

1. The `currencyID` attribute is required.
2. The amount must have two decimal places.
3. The decimal separator must be a period (“.”).

4. You must not use any thousands separator.
5. `BasicAmountType` has a data type of `ebl:CurrencyCodeType`, which defines a large number of different currency codes. However, for your processing to succeed, you must set `currencyCode` to a valid currency code. Some APIs support only a subset of currencies.

Here is an example. (The field name `Amount` is an example; actual field names can vary depending on the specific API.)

```
<Amount currencyID="currencyCode">3.00</Amount>
```

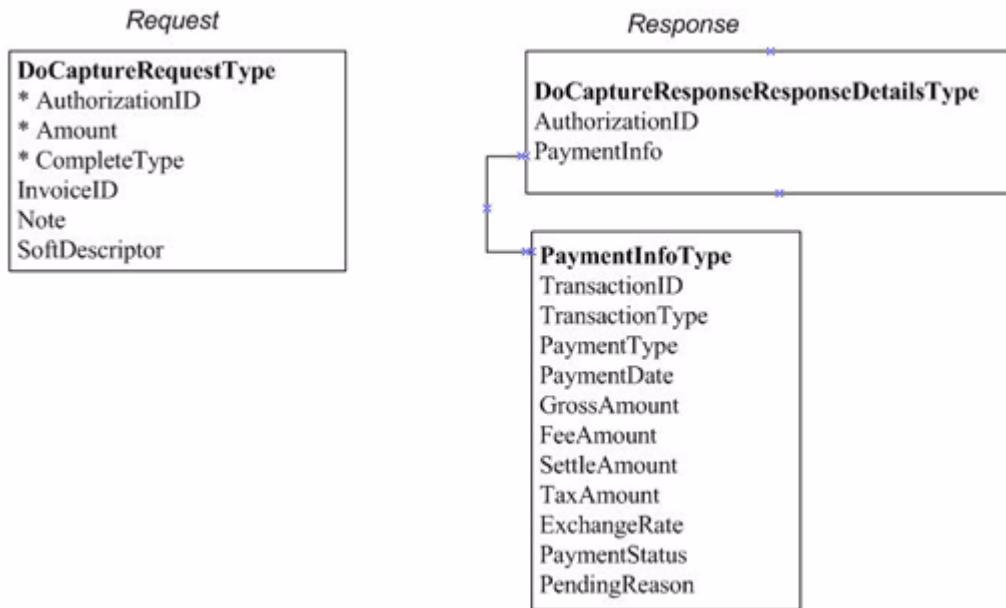
This chapter describes the PayPal API operations related to delayed payment settlement:

- “[DoCapture API](#)” on page 23
- “[DoAuthorization API](#)” on page 29
- “[DoReauthorization API](#)” on page 30
- “[DoVoid API](#)” on page 31

DoCapture API

Capture an authorized payment.

- “[DoCapture Request](#)” on page 24
- “[DoCapture Response](#)” on page 26

DoCapture API Diagram**DoCapture Request****DoCapture Request Fields**

| Field | Description |
|-----------------|---|
| AuthorizationID | <p>xs:string</p> <p>(Required) The authorization identification number of the payment you want to capture. This is the transaction id returned from DoExpressCheckoutPayment or DoDirectPayment.</p> <p>Character length and limits: 19 single-byte characters maximum.</p> |
| Amount | <p>ebl:BasicAmountType</p> <p>(Required) Amount to capture.</p> <p>Limitations: Value is a positive number which cannot exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |

| Field | Description |
|--------------|---|
| CompleteType | <p>eb1:CompleteCodeType</p> <p>(Required) The value Complete indicates that this is the last capture you intend to make.</p> <p>The value NotComplete indicates that you intend to make additional captures.</p> <p>NOTE: If Complete, any remaining amount of the original authorized transaction is automatically voided and all remaining open authorizations are voided.</p> <p>Character length and limits: 12 single-byte alphanumeric characters.</p> |
| InvoiceID | <p>xs:string</p> <p>(Optional) Your invoice number or other identification number that is displayed to the merchant and customer in his transaction history.</p> <p>NOTE: This value on DoCapture will overwrite a value previously set on DoAuthorization.</p> <p>NOTE: The value is recorded only if the authorization you are capturing is an order authorization, not a basic authorization.</p> <p>Character length and limits: 127 single-byte alphanumeric characters.</p> |
| Note | <p>xs:string</p> <p>(Optional) An informational note about this settlement that is displayed to the payer in email and in his transaction history.</p> <p>Character length and limits: 255 single-byte characters.</p> |

| Field | Description |
|----------------|---|
| SoftDescriptor | <p>xs:string</p> <p>(Optional) The soft descriptor is a per transaction description of the payment that is passed to the consumer's credit card statement.</p> <p>If a value for the soft descriptor field is provided, the full descriptor displayed on the customer's statement has the following format:</p> <pre><PP * PAYPAL *><Merchant descriptor as set in the Payment Receiving Preferences><1 space><soft descriptor></pre> <p>The soft descriptor can contain only the following characters:</p> <ul style="list-style-type: none"> • Alphanumeric characters • - (dash) • * (asterisk) • . (period) • {space} <p>If you use any other characters (such as “,”), an error code is returned.</p> <p>The soft descriptor does not include the phone number, which can be toggled between the merchant's customer service number and PayPal's customer service number.</p> <p>The maximum length of the total soft descriptor is 22 characters. Of this, either 4 or 8 characters are used by the PayPal prefix shown in the data format. Thus, the maximum length of the soft descriptor passed in the API request is:</p> $22 - \text{len}(<\text{PP} * \text{PAYPAL} *>) - \text{len}(<\text{Descriptor set in Payment Receiving Preferences}> + 1)$ <p>For example, assume the following conditions:</p> <ul style="list-style-type: none"> • The PayPal prefix toggle is set to PAYPAL * in PayPal's admin tools. • The merchant descriptor set in the Payment Receiving Preferences is set to EBAY. • The soft descriptor is passed in as JanesFlowerGifts LLC. <p>The resulting descriptor string on the credit card would be:</p> <p>PAYPAL *EBAY JanesFlow</p> |

DoCapture Response

- [DoCapture Response Fields](#)
- [Payer Information Fields](#)
- [Ship To Address Fields](#)
- [Payer Name Fields](#)

DoCapture Response Fields

| Field | Description |
|-----------------|--|
| AuthorizationID | <p>xs:string</p> <p>The authorization identification number you specified in the request.</p> <p>Character length and limits: 19 single-byte characters maximum.</p> |
| PaymentInfo | <p>ebl:PaymentInfoType</p> <p>Information about the payment.</p> |

PayerInfoType Fields

| Field | Description |
|---------------|---|
| Payer | <p>ebl:EmailAddressType</p> <p>Email address of payer.</p> <p>Character length and limitations: 127 single-byte characters.</p> |
| PayerID | <p>ebl:UserIDType</p> <p>Unique PayPal customer account identification number.</p> <p>Character length and limitations: 13 single-byte alphanumeric characters.</p> |
| PayerStatus | <p>ebl:PayPalUserStatusCodeType</p> <p>Status of payer. Valid values are:</p> <ul style="list-style-type: none"> • verified • unverified <p>Character length and limitations: 10 single-byte alphabetic characters.</p> |
| PayerName | <p>ebl:PersonNameType</p> <p>First and last name of payer.</p> |
| PayerCountry | <p>ebl:CountryCodeType</p> <p>Payer's country of residence in the form of ISO standard 3166 two-character country codes.</p> <p>Character length and limitations: Two single-byte characters.</p> |
| PayerBusiness | <p>xs:string</p> <p>Payer's business name.</p> <p>Character length and limitations: 127 single-byte characters.</p> |
| Address | <p>xs:string</p> <p>Payer's shipping address information.</p> |

Authorization and Capture API Operation Reference

DoCapture API

AddressType Fields

| Field | Description |
|-----------------|--|
| AddressStatus | ebl:AddressStatusTypeCode Status of street address on file with PayPal. Valid values are: <ul style="list-style-type: none">• none• Confirmed• Unconfirmed |
| Name | xs:string Person's name associated with this address. Character length and limitations: 32 single-byte characters. |
| Street1 | xs:string First street address. Character length and limitations: 100 single-byte characters. |
| Street2 | xs:string Second street address. Character length and limitations: 100 single-byte characters. |
| CityName | xs:string Name of city. Character length and limitations: 40 single-byte characters. |
| StateOrProvince | xs:string State or province. Character length and limitations: 40 single-byte characters. Required for U.S. addresses only. |
| PostalCode | xs:string U.S. ZIP code or other country-specific postal code. Character length and limitations: 20 single-byte characters. |
| Country | ebl:CountryCode Country code. Character limit: Two single-byte characters. |

PayerName Fields

| Field | Description |
|--------------|---|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters. |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |

| Field | Description |
|------------|--|
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters. |
| LastName | ebl:NameType Payer's last name Character length and limitations: 25 single-byte characters. |
| Suffix | ebl:SuffixType Payer's suffix Character length and limitations: 12 single-byte characters. |

DoAuthorization API

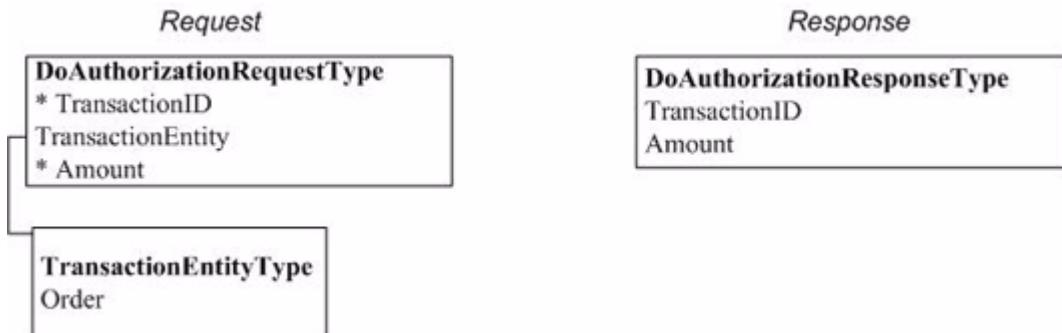
Authorize a payment.

- [DoAuthorization Request](#)
- [DoAuthorization Response](#)

Authorization and Capture API Operation Reference

DoReauthorization API

DoAuthorization API Diagram



DoAuthorization Request

DoAuthorization Request Fields

| Field | Description |
|-------------------|---|
| TransactionID | <code>xs:string</code> <i>(Required)</i> The value of the order's transaction identification number returned by PayPal. Character length and limits: 19 single-byte characters maximum. |
| Amount | <code>ebl:BasicAmountType</code> <i>(Required)</i> Amount to authorize. Limitations: Value is a positive number which cannot exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). |
| TransactionEntity | <code>ebl:TransactionEntityType</code> <i>(Optional)</i> Type of transaction to authorize. The only allowable value is <code>Order</code> , which means that the transaction represents a customer order that can be fulfilled over 29 days. |

DoAuthorization Response

DoAuthorization Response Fields

| Field | Description |
|---------------|--|
| TransactionID | <code>xs:string</code> An authorization identification number. |
| Amount | <code>ebl:BasicAmountType</code> The amount you specified in the request. |

DoReauthorization API

- DoReauthorization Request
- DoReauthorization Response

DoReauthorization API Diagram**DoReauthorization Request****DoReauthorization Request Fields**

| Field | Description |
|----------------|--|
| AuthoriztionID | xs:string <i>(Required)</i> The value of a previously authorized transaction identification number returned by PayPal. Character length and limits: 19 single-byte characters maximum. |
| Amount | ebl:BasicAmountType <i>(Required)</i> Amount to reauthorize. Limitations: Value is a positive number which cannot exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). |

DoReauthorization Response**DoReauthorization Response Fields**

| Field | Description |
|----------------|--|
| AuthoriztionID | xs:string A new authorization identification number. Character length and limits: 19 single-byte characters maximum. |

DoVoid API

Void an order or an authorization.

- DoVoid Request
- DoVoid Response

DoVoid API Diagram**DoVoid Request****DoVoid Request Fields**

| Field | Description |
|-----------------|--|
| AuthorizationID | <p>xs:string</p> <p>(Required) The value of the original authorization identification number returned by a PayPal product.</p> <p>IMPORTANT: If you are voiding a transaction that has been reauthorized, use the ID from the original authorization, and not the reauthorization.</p> <p>Character length and limits: 19 single-byte characters.</p> |
| Note | <p>xs:string</p> <p>(Optional) An informational note about this void that is displayed to the payer in email and in his transaction history.</p> <p>Character length and limits: 255 single-byte characters</p> |

DoVoid Response**DoVoidResponseType Fields**

| Field | Description |
|-----------------|--|
| AuthorizationID | <p>xs:string</p> <p>The authorization identification number you specified in the request.</p> <p>Character length and limits: 19 single-byte characters.</p> |

3

DoDirectPayment API

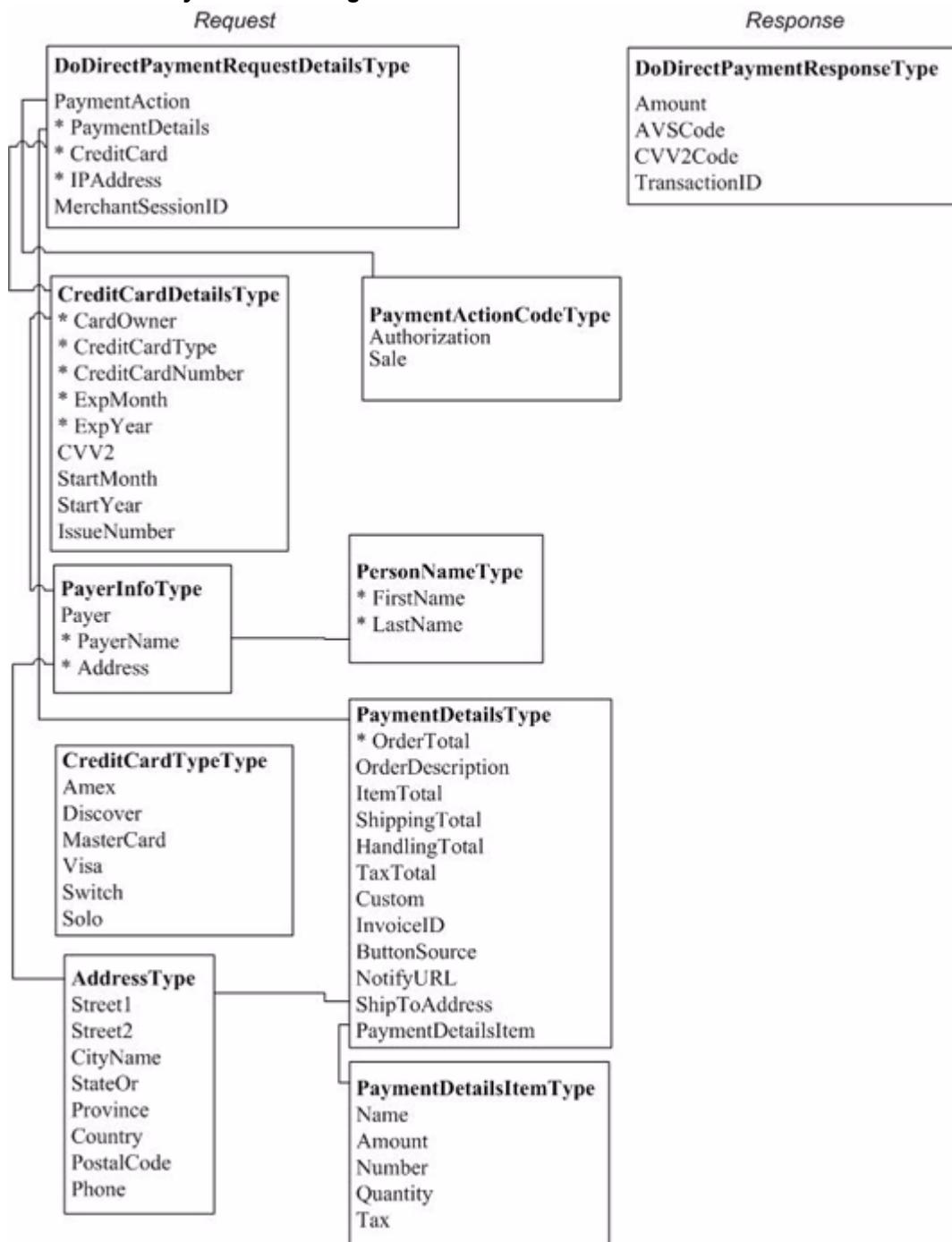
Process a credit card payment.

- DoDirectPayment Request
- DoDirectPayment Response

DoDirectPayment API

DoDirectPayment Request

DoDirectPayment API Diagram



DoDirectPayment Request

- DoDirectPayment Request Fields

- Credit Card Fields
- Payer Information Fields
- Payer Name Fields
- Billing Address Fields
- Payment Details Type Fields
- Payment Details Item Type Fields
- eBay Item Payment Details Item Type Fields
- Ship To Address Fields

DoDirectPayment Request Fields

| Field | Description |
|-------------------|---|
| PaymentAction | ebl:PaymentActionCodeType <i>(Optional)</i> How you want to obtain payment: <ul style="list-style-type: none">• Authorization indicates that this payment is a basic authorization subject to settlement with PayPal Authorization & Capture.• Sale indicates that this is a final sale for which you are requesting payment. Character length and limit: Up to 13 single-byte alphabetic characters. Default: Sale NOTE: Order is not allowed for Direct Payment. |
| CreditCard | ebl:CreditCardDetailsType <i>(Required)</i> Information about the credit card to be charged. |
| PaymentDetails | ebl:PaymentDetailsType <i>(Required)</i> Information about the credit card to be charged. |
| IPAddress | xs:string <i>(Required)</i> IP address of the payer's browser. NOTE: PayPal records this IP addresses as a means to detect possible fraud. Character length and limitations: 15 single-byte characters, including periods, for example: 255.255.255.255. |
| MerchantSessionId | xs:string <i>(Optional)</i> Your customer session identification token. NOTE: PayPal records this optional session identification token as an additional means to detect possible fraud. Character length and limitations: 64 single-byte numeric characters. |
| ReturnFMFDetails | xs:boolean <i>(Optional)</i> Flag to indicate whether you want the results returned by Fraud Management Filters. By default, you do not receive this information. <ul style="list-style-type: none">• 0 - do not receive FMF details (default)• 1 - receive FMF details |

CreditCardDetailsType Fields

| Field | Description |
|------------------|---|
| CreditCardType | <p>eb1:CreditCardType</p> <p><i>(Required)</i> Type of credit card.</p> <p>Character length and limitations: Up to ten single-byte alphabetic characters.</p> <p>Allowable values:</p> <ul style="list-style-type: none"> • Visa • MasterCard • Discover • Amex • Maestro: See note. • Solo: See note. <p>For Canada, only MasterCard and Visa are allowable; Interac debit cards are not supported.</p> <p>NOTE: If the credit card type is Maestro or Solo, the currencyId must be GBP. In addition, either StartMonth and StartYear or IssueNumber must be specified.</p> |
| CreditCardNumber | <p>xs:string</p> <p><i>(Required)</i> Credit card number.</p> <p>Character length and limitations: numeric characters only. No spaces or punctuation. Must conform with modulo and length required by each credit card type.</p> |
| ExpMonth | <p>xs:int</p> <p><i>(Required)</i> Credit card expiration month.</p> <p>Character length and limitations: Two single-byte numeric characters, including leading zero.</p> |
| ExpYear | <p>xs:int</p> <p><i>(Required)</i> Credit card expiration year.</p> <p>Character length and limitations: Four single-byte numeric characters.</p> |
| CVV2 | <p>xs:string</p> <p>Card Verification Value, version 2. Your Merchant Account settings determine whether this field is required. Character length for Visa, MasterCard, and Discover: exactly three digits. Character length for American Express: exactly four digits. To comply with credit card processing regulations, you must not store this value after a transaction has been completed.</p> |
| CardOwner | <p>ns:PayerInfoType</p> <p><i>(Required)</i> Details about the owner of the credit card.</p> |
| StartMonth | <p>xs:int</p> <p><i>(Optional)</i> Month that Maestro or Solo card was issued.</p> <p>Character length: Two-digit, zero-filled if necessary.</p> |

| Field | Description |
|-------------|---|
| StartYear | xs:int <i>(Optional)</i> Year that Maestro or Solo card was issued. Character length: Four digits. |
| IssueNumber | xs:int <i>(Optional)</i> Issue number of Maestro or Solo card. Character length: two numeric digits maximum. |

PayerInfoType Fields

| Field | Description |
|---------------|--|
| Payer | ebl:EmailAddressType Email address of payer. Character length and limitations: 127 single-byte characters. |
| PayerID | ebl:UserIDType Unique PayPal customer account identification number. Character length and limitations: 13 single-byte alphanumeric characters. |
| PayerStatus | ebl:PayPalUserStatusCodeType Status of payer. Valid values are: <ul style="list-style-type: none">• verified• unverified Character length and limitations: 10 single-byte alphabetic characters. |
| PayerName | ebl:PersonNameType First and last name of payer. |
| PayerCountry | ebl:CountryCodeType Payer's country of residence in the form of ISO standard 3166 two-character country codes. Character length and limitations: Two single-byte characters. |
| PayerBusiness | xs:string Payer's business name. Character length and limitations: 127 single-byte characters. |
| Address | xs:string Payer's shipping address information. |

PayerName Fields

| Field | Description |
|--------------|---|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters. |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters. |
| LastName | ebl:NameType Payer's last name Character length and limitations: 25 single-byte characters. |

| Field | Description |
|--------|--|
| Suffix | ebl:SuffixType Payer's suffix Character length and limitations: 12 single-byte characters. |

PaymentDetailsType Fields

| Field | Description |
|---------------|--|
| OrderTotal | <p>ebl:BasicAmountType</p> <p>(Required) The total cost of the transaction to the customer. If shipping cost and tax charges are known, include them in this value; if not, this value should be the current sub-total of the order.</p> <p>If the transaction includes one or more one-time purchases, this field must be equal to the sum of the purchases.</p> <p>Set this field to 0 if the transaction does not include a one-time purchase; for example, when you set up a billing agreement for a recurring payment that is not immediately charged.</p> <p>Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| ItemTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Sum of cost of all items in this order.</p> <p>Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| ShippingTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Total shipping costs for this order.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| HandlingTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Total handling costs for this order.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |

DoDirectPayment API

DoDirectPayment Request

| Field | Description |
|--------------------|--|
| TaxTotal | <code>ebl:BasicAmountType</code> <i>(Optional)</i> Sum of tax for all items in this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the <code>currencyID</code> attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| OrderDescription | <code>xs:string</code> <i>(Optional)</i> Description of items the customer is purchasing. Character length and limitations: 127 single-byte alphanumeric characters |
| Custom | <code>xs:string</code> <i>(Optional)</i> A free-form field for your own use. Character length and limitations: 256 single-byte alphanumeric characters |
| InvoiceID | <code>xs:string</code> <i>(Optional)</i> Your own invoice or tracking number. Character length and limitations: 127 single-byte alphanumeric characters |
| ButtonSource | <code>xs:string</code> <i>(Optional)</i> An identification code for use by third-party applications to identify transactions. Character length and limitations: 32 single-byte alphanumeric characters |
| NotifyURL | <code>xs:string</code> <i>(Optional)</i> Your URL for receiving Instant Payment Notification (IPN) about this transaction. NOTE: If you do not specify this value in the request, the notification URL from your Merchant Profile is used, if one exists. Character length and limitations: 2,048 single-byte alphanumeric characters |
| ShipToAddress | <code>ns:AddressType</code> <i>(Optional)</i> Address the order will be shipped to. |
| PaymentDetailsItem | <code>ebl:PaymentDetailsItemType</code> <i>(Optional)</i> Details about each individual item included in the order. |

PaymentDetailsItemType Fields

| Field | Description |
|----------------------------|---|
| Name | <p>xs:string <i>(Optional)</i> Item name. Character length and limitations: 127 single-byte characters</p> |
| Amount | <p>ebl:BasicAmountType <i>(Optional)</i> Cost of item.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| Number | <p>xs:string <i>(Optional)</i> Item number. Character length and limitations: 127 single-byte characters</p> |
| Quantity | <p>xs:integer <i>(Optional)</i> Item quantity. Character length and limitations: Any positive integer</p> |
| Tax | <p>ebl:BasicAmountType <i>(Optional)</i> Item sales tax.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| EbayItemPaymentDetailsItem | <p>eBl:ebayItemPaymentDetailsItemType <i>(Optional)</i> Information relating to an auction sale on eBay.</p> |

EbayItemPaymentDetailsItemType Fields

| Field | Description |
|----------------------|--|
| ItemNumber | <p>xs:string <i>(Optional)</i> Auction item number. Character length: 765 single-byte characters.</p> |
| AuctionTransactionId | <p>xs:string <i>(Optional)</i> Auction transaction identification number. Character length: 255 single-byte characters</p> |

| Field | Description |
|---------|--|
| OrderID | <code>xs:string</code> <i>(Optional)</i> Auction order identification number. Character length: 64 single-byte characters. |

AddressType Fields

| Field | Description |
|-----------------|---|
| Name | <p>xs:string</p> <p>Person's name associated with this address. This field is required for shipping addresses but is optional for credit card billing addresses.</p> <p>Character length and limitations: 32 single-byte characters.</p> |
| Street1 | <p>xs:string</p> <p>First street address. This field is required if the shipping address is used.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| Street2 | <p>xs:string</p> <p>(Optional) Second street address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| CityName | <p>xs:string</p> <p>Name of city. This field is required if the shipping address is used.</p> <p>Character length and limitations: 40 single-byte characters.</p> |
| StateOrProvince | <p>xs:string</p> <p>State or province. This field is required if the shipping address is used.</p> <p>Character length and limitations: 40 single-byte characters.</p> |
| PostalCode | <p>xs:string</p> <p>U.S. ZIP code or other country-specific postal code. This field is required if a U.S. shipping address is used and may be required for other countries.</p> <p>Character length and limitations: 20 single-byte characters.</p> |
| Country | <p>ebl:CountryCodeType</p> <p>Country code. This field is required if the shipping address is used.</p> <p>Character limit: 2 single-byte characters.</p> |
| Phone | <p>xs:string</p> <p>(Optional) Phone number.</p> <p>Character length and limit: 20 single-byte characters.</p> |

DoDirectPayment Response

DoDirectPayment API

DoDirectPayment Response

DoDirectPayment Response Fields

| Field | Description |
|---------------|--|
| TransactionID | <code>xs:string</code> Unique transaction ID of the payment. NOTE: If the PaymentAction of the request was Authorization, the value of TransactionID is your AuthorizationID for use with the Authorization & Capture APIs. Character length and limitations: 19 single-byte characters. |
| Amount | <code>ebl:BasicAmountType</code> This value is the amount of the payment as specified by you on DoDirectPaymentRequest for reference transactions with direct payments. |
| AVSCode | <code>xs:string</code> Address Verification System response code. See “ AVS and CVV2 Response Codes ” on page 273 for possible values. Character limit: One single-byte alphanumeric character |
| CVV2Code | <code>xs:string</code> Result of the CVV2 check by PayPal. |
| FMFDetails | <code>ebl:FMFDetailsType</code> Fraud filter details. |

FMFDetailsType Fields

| Field | Description |
|----------------|--|
| AcceptFilters | <code>xs:RiskFilterListType</code> List of filters that recommend acceptance of the payment |
| DenyFilters | <code>xs:RiskFilterListType</code> List of filters that recommend denial of the payment |
| PendingFilters | <code>xs:RiskFilterListType</code> List of filters that caused the payment to become pending. |
| ReportsFilters | <code>xs:RiskFilterListType</code> List of filters that caused the payment to become flagged. |

RiskFilterListType Fields

| Field | Description |
|--------------|--|
| ID | <p>xs:int</p> <p>Filter ID, which is one of the following values:</p> <ul style="list-style-type: none"> • 1 = AVS No Match • 2 = AVS Partial Match • 3 = AVS Unavailable/Unsupported • 4 = Card Security Code (CSC) Mismatch • 5 = Maximum Transaction Amount • 6 = Unconfirmed Address • 7 = Country Monitor • 8 = Large Order Number • 9 = Billing/Shipping Address Mismatch • 10 = Risky ZIP Code • 11 = Suspected Freight Forwarder Check • 12 = Total Purchase Price Minimum • 13 = IP Address Velocity • 14 = Risky Email Address Domain Check • 15 = Risky Bank Identification Number (BIN) Check • 16 = Risky IP Address Range • 17 = PayPal Fraud Model |
| Name | <p>xs:string</p> <p>Filter name</p> |
| Description | <p>xs:string</p> <p>Filter description</p> |

This chapter describes the PayPal API operations related to Express Checkout transactions:

- “[SetExpressCheckout API](#)” on page 49
- “[GetExpressCheckoutDetails API](#)” on page 60
- “[DoExpressCheckoutPayment API](#)” on page 71

SetExpressCheckout API

Initiates an Express Checkout transaction.

Optionally, the `SetExpressCheckout` API operation can set up billing agreements for reference transactions and recurring payments.

- “[SetExpressCheckout Request](#)” on page 49
- “[SetExpressCheckout Response](#)” on page 60

SetExpressCheckout Request

- “[SetExpressCheckoutRequestDetailsType Fields](#)” on page 50
- “[AddressType Fields](#)” on page 55
- “[PaymentDetailsType Fields](#)” on page 56
- “[PaymentDetailsItemType Fields](#)” on page 58
- “[EbayItemPaymentDetailsItemType Fields](#)” on page 58
- “[BillingAgreementDetails Fields](#)” on page 60

Express Checkout API Operations

SetExpressCheckout API

SetExpressCheckoutRequestDetailsType Fields

| Field | Description |
|------------------|---|
| Token | ebl:ExpressCheckoutTokenType <i>(Optional)</i> A timestamped token, the value of which was returned by SetExpressCheckout response. Character length and limitations: 20 single-byte characters |
| OrderTotal | ebl:BasicAmountType This field is deprecated. <i>(Required)</i> The total cost of the transaction to the customer. If shipping cost and tax charges are known, include them in this value; if not, this value should be the current sub-total of the order. If the transaction includes one or more one-time purchases, this field must be equal to the sum of the purchases. If the transaction does not include a one-time purchase; for example, when you set up a billing agreement for a recurring payment, set this field to 0. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| MaxAmount | ebl:BasicAmountType <i>(Optional)</i> The expected maximum total amount of the complete order, including shipping cost and tax charges. If the transaction does not include a one-time purchase, this field is ignored. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| OrderDescription | xs:string This field is deprecated. <i>(Optional)</i> Description of items the customer is purchasing. Character length and limitations: 127 single-byte alphanumeric characters |
| Custom | xs:string This field is deprecated. <i>(Optional)</i> A free-form field for your own use, such as a tracking number or other value you want PayPal to return on GetExpressCheckoutDetails response and response. Character length and limitations: 256 single-byte alphanumeric characters |

| Field | Description |
|--------------------|--|
| InvoiceID | <p>xs:string</p> <p>This field is deprecated.</p> <p>(Optional) Your own unique invoice or tracking number. PayPal returns this value to you on DoExpressCheckoutPayment response.</p> <p>If the transaction does not include a one-time purchase, this field is ignored.</p> <p>Character length and limitations: 127 single-byte alphanumeric characters</p> |
| ReturnURL | <p>xs:string</p> <p>(Required) URL to which the customer's browser is returned after choosing to pay with PayPal.</p> <p>NOTE: PayPal recommends that the value be the final review page on which the customer confirms the order and payment or billing agreement.</p> <p>Character length and limitations: 2048 characters</p> |
| CancelURL | <p>xs:string</p> <p>(Required) URL to which the customer is returned if he does not approve the use of PayPal to pay you.</p> <p>NOTE: PayPal recommends that the value be the original page on which the customer chose to pay with PayPal or establish a billing agreement.</p> <p>Character length and limitations: 2048 characters</p> |
| Address | <p>ebl:AddressType</p> <p>This field is deprecated.</p> <p>(Optional) Customer's shipping address.</p> <p>If you include a shipping address and set the AddressOverride element on the request, PayPal returns this same address in GetExpressCheckoutDetailsResponse.</p> |
| ReqConfirmShipping | <p>xs:string</p> <p>(Optional) The value 1 indicates that you require that the customer's shipping address on file with PayPal be a confirmed address.</p> <p>NOTE: Setting this field overrides the setting you have specified in your Merchant Account Profile.</p> <p>Character length and limitations: One single-byte numeric character.</p> <p>Allowable values: 0, 1</p> |
| NoShipping | <p>xs:string</p> <p>(Optional) The value 1 indicates that on the PayPal pages, no shipping address fields should be displayed whatsoever.</p> <p>Character length and limitations: One single-byte numeric character.</p> <p>Allowable values: 0, 1</p> |

Express Checkout API Operations

SetExpressCheckout API

| Field | Description |
|------------------|---|
| AllowNote | <code>xs:string</code> <i>(Optional)</i> The value 1 indicates that the customer may enter a note to the merchant on the PayPal page during checkout. The note is returned in the <code>GetExpressCheckoutDetails</code> response and the <code>DoExpressCheckoutPayment</code> response. Character length and limitations: One single-byte numeric character. Allowable values: 0, 1 |
| PaymentDetails | <code>ebl:PaymentDetailsType</code> <i>(Required)</i> Information about the payment. |
| AddressOverride | <code>xs:string</code> <i>(Optional)</i> The value 1 indicates that the PayPal pages should display the shipping address set by you in this <code>SetExpressCheckout</code> request, not the shipping address on file with PayPal for this customer. Displaying the PayPal street address on file does not allow the customer to edit that address. Character length and limitations: One single-byte numeric character. Allowable values: 0, 1 |
| LocaleCode | <code>xs:string</code> <i>(Optional)</i> Locale of pages displayed by PayPal during Express Checkout. Character length and limitations: Any two-character country code. The following two-character country codes are supported by PayPal: <ul style="list-style-type: none">• AU• DE• FR• IT• GB• ES• US Any other value will default to US. See " Country Codes " on page 257. |
| PageStyle | <code>xs:string</code> <i>(Optional)</i> Sets the Custom Payment Page Style for payment pages associated with this button/link. This value corresponds to the HTML variable <code>page_style</code> for customizing payment pages. The value is the same as the Page Style Name you chose when adding or editing the page style from the Profile subtab of the My Account tab of your PayPal account. Character length and limitations: 30 single-byte alphabetic characters. |
| cpp-header-image | <code>xs:string</code> <i>(Optional)</i> URL for the image you want to appear at the top left of the payment page. The image has a maximum size of 750 pixels wide by 90 pixels high. PayPal recommends that you provide an image that is stored on a secure (<code>https</code>) server. If you do not specify an image, the business name is displayed. Character length and limit: 127 single-byte alphanumeric characters |

| Field | Description |
|-------------------------|---|
| cpp-header-border-color | <p>xs:string <i>(Optional)</i> Sets the border color around the header of the payment page. The border is a 2-pixel perimeter around the header space, which is 750 pixels wide by 90 pixels high. By default, the color is black.</p> |
| | <p>Character length and limitation: Six character HTML hexadecimal color code in ASCII.</p> |
| cpp-header-back-color | <p>xs:string <i>(Optional)</i> Sets the background color for the header of the payment page. By default, the color is white.</p> |
| | <p>Character length and limitation: Six character HTML hexadecimal color code in ASCII.</p> |
| cpp-payflow-color | <p>xs:string <i>(Optional)</i> Sets the background color for the payment page. By default, the color is white.</p> |
| | <p>Character length and limitation: Six character HTML hexadecimal color code in ASCII.</p> |
| PaymentAction | <p>ebl:PaymentActionCodeType <i>(Optional)</i> How you want to obtain payment:</p> <ul style="list-style-type: none"> • Sale indicates that this is a final sale for which you are requesting payment. (Default) • Authorization indicates that this payment is a basic authorization subject to settlement with PayPal Authorization & Capture. • Order indicates that this payment is an order authorization subject to settlement with PayPal Authorization & Capture. |
| | <p>If the transaction does not include a one-time purchase, this field is ignored.</p> |
| | <p>NOTE: You cannot set this value to Sale in SetExpressCheckout request and then change this value to Authorization or Order on the final API DoExpressCheckoutPayment request. If the value is set to Authorization or Order in SetExpressCheckout, the value may be set to Sale or the same value (either Authorization or Order) in DoExpressCheckoutPayment.</p> |
| | <p>Character length and limit: Up to 13 single-byte alphabetic characters Default value: Sale</p> |
| BuyerEmail | <p>ebl:EmailAddressType <i>(Optional)</i> Email address of the buyer as entered during checkout. PayPal uses this value to pre-fill the PayPal membership sign-up portion of the PayPal login page. Character length and limit: 127 single-byte alphanumeric characters</p> |
| SolutionType | <p>ebl:SolutionTypeType <i>(Optional)</i> Type of checkout flow:</p> <ul style="list-style-type: none"> • Sole: Express Checkout for auctions • Mark: Normal Express Checkout |

Express Checkout API Operations

SetExpressCheckout API

| Field | Description |
|--------------------------|---|
| LandingPage | ebl:LandingPageType <i>(Optional)</i> Type of PayPal page to display: <ul style="list-style-type: none">• Billing: non-PayPal account• Login: PayPal account login |
| ChannelType | ebl:ChannelType <i>(Optional)</i> Type of channel: <ul style="list-style-type: none">• Merchant: non-auction seller• eBayItem: eBay auction |
| giropaySuccessURL | xs:string <i>(Optional)</i> The URL on the merchant site to redirect to after a successful giropay payment. Use this field only if you are using giropay or bank transfer payment methods in Germany. |
| giropayCancelURL | xs:string <i>(Optional)</i> The URL on the merchant site to redirect to after a successful giropay payment. Use this field only if you are using giropay or bank transfer payment methods in Germany. |
| BanktxnPendingURL | xs:string <i>(Optional)</i> The URL on the merchant site to transfer to after a bank transfer payment. Use this field only if you are using giropay or bank transfer payment methods in Germany. |
| BillingAgreement Details | ns:BillingAgreementDetailsType <i>(Optional)</i> Billing agreement details. |

AddressType Fields

| Field | Description |
|-----------------|--|
| Name | <p>xs:string</p> <p>Person's name associated with this shipping address. Required if using a shipping address.</p> <p>Character length and limitations: 32 single-byte characters.</p> |
| Street1 | <p>xs:string</p> <p>First street address. Required if using a shipping address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| Street2 | <p>xs:string</p> <p>(Optional) Second street address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| CityName | <p>xs:string</p> <p>Name of city. Required if using a shipping address.</p> <p>Character length and limitations: 40 single-byte characters.</p> |
| StateOrProvince | <p>xs:string</p> <p>State or province. Required if using a shipping address.</p> <p>Character length and limitations: 40 single-byte characters.</p> |
| PostalCode | <p>xs:string</p> <p>U.S. ZIP code or other country-specific postal code. Required if using a U.S. shipping address; may be required for other countries.</p> <p>Character length and limitations: 20 single-byte characters.</p> |
| Country | <p>ebl:CountryCodeType</p> <p>Country code. Required if using a shipping address.</p> <p>Character limit: 2 single-byte characters.</p> |
| Phone | <p>xs:string</p> <p>(Optional) Phone number.</p> <p>Character length and limit: 20 single-byte characters.</p> |

Express Checkout API Operations

SetExpressCheckout API

PaymentDetailsType Fields

| Field | Description |
|---------------|--|
| OrderTotal | ebl:BasicAmountType <i>(Required)</i> The total cost of the transaction to the customer. If shipping cost and tax charges are known, include them in this value; if not, this value should be the current sub-total of the order. If the transaction includes one or more one-time purchases, this field must be equal to the sum of the purchases. Set this field to 0 if the transaction does not include a one-time purchase; for example, when you set up a billing agreement for a recurring payment that is not immediately charged. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| ItemTotal | ebl:BasicAmountType <i>(Optional)</i> Sum of cost of all items in this order. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| ShippingTotal | ebl:BasicAmountType <i>(Optional)</i> Total shipping costs for this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| HandlingTotal | ebl:BasicAmountType <i>(Optional)</i> Total handling costs for this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |

| Field | Description |
|--------------------|--|
| TaxTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Sum of tax for all items in this order.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| OrderDescription | <p>xs:string</p> <p>(Optional) Description of items the customer is purchasing.</p> <p>Character length and limitations: 127 single-byte alphanumeric characters</p> |
| Custom | <p>xs:string</p> <p>(Optional) A free-form field for your own use.</p> <p>Character length and limitations: 256 single-byte alphanumeric characters</p> |
| InvoiceID | <p>xs:string</p> <p>(Optional) Your own invoice or tracking number.</p> <p>Character length and limitations: 127 single-byte alphanumeric characters</p> |
| ButtonSource | <p>xs:string</p> <p>(Optional) An identification code for use by third-party applications to identify transactions.</p> <p>Character length and limitations: 32 single-byte alphanumeric characters</p> |
| NotifyURL | <p>xs:string</p> <p>(Optional) Your URL for receiving Instant Payment Notification (IPN) about this transaction.</p> <p>NOTE: If you do not specify this value in the request, the notification URL from your Merchant Profile is used, if one exists.</p> <p>Character length and limitations: 2,048 single-byte alphanumeric characters</p> |
| ShipToAddress | <p>ns:AddressType</p> <p>(Optional) Address the order will be shipped to.</p> |
| PaymentDetailsItem | <p>ebl:PaymentDetailsItemType</p> <p>(Optional) Details about each individual item included in the order.</p> |

Express Checkout API Operations

SetExpressCheckout API

PaymentDetailsItemType Fields

| Field | Description |
|----------------------------|---|
| Name | xs:string <i>(Optional)</i> Item name. Character length and limitations: 127 single-byte characters |
| Amount | ebl:BasicAmountType <i>(Optional)</i> Cost of item. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. |
| | NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| Number | xs:string <i>(Optional)</i> Item number. Character length and limitations: 127 single-byte characters |
| Quantity | xs:integer <i>(Optional)</i> Item quantity. Character length and limitations: Any positive integer |
| Tax | ebl:BasicAmountType <i>(Optional)</i> Item sales tax. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. |
| | NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| EbayItemPaymentDetailsItem | eBl:ebayItemPaymentDetailsItemType <i>(Optional)</i> Information relating to an auction sale on eBay. |

EbayItemPaymentDetailsItemType Fields

| Field | Description |
|----------------------|---|
| ItemNumber | xs:string <i>(Optional)</i> Auction item number. Character length: 765 single-byte characters. |
| AuctionTransactionId | xs:string <i>(Optional)</i> Auction transaction identification number. Character length: 255 single-byte characters |

| Field | Description |
|---------|--|
| OrderID | <code>xs:string</code> <i>(Optional)</i> Auction order identification number. Character length: 64 single-byte characters. |

Express Checkout API Operations

GetExpressCheckoutDetails API

BillingAgreementDetails Fields

| Field | Description |
|-----------------------------|---|
| BillingType | <code>ns:BillingCodeType</code> <i>(Required)</i> Type of billing agreement. For recurring payments, this field must be set to RecurringPayments. In this case, you can specify up to ten billing agreements. NOTE: Other defined values are not valid. |
| BillingAgreementDescription | <code>xs:string</code> Description of goods or services associated with the billing agreement, which is required for each recurring payment billing agreement. PayPal recommends that the description contain a brief summary of the billing agreement terms and conditions. For example, customer will be billed at “9.99 per month for 2 years”. Character length and limitations: 127 single-byte alphanumeric bytes. |
| PaymentType | <code>ns:MerchantPullPaymentCodeType</code> <i>(Optional)</i> Specifies type of PayPal payment you require for the billing agreement. <ul style="list-style-type: none">● Any● InstantOnly NOTE: For recurring payments, this field is ignored. |
| BillingAgreementCustom | <code>xs:string</code> <i>(Optional)</i> Custom annotation field for your own use. NOTE: For recurring payments, this field is ignored. Character length and limitations: 256 single-byte alphanumeric bytes. |

SetExpressCheckout Response

SetExpressCheckoutResponseDetailsType Fields

| Field | Description |
|-------|---|
| Token | <code>xs:string</code> A timestamped token by which you identify to PayPal that you are processing this payment with Express Checkout. The token expires after three hours. If you set the token in the SetExpressCheckout request, the value of the token in the response is identical to the value in the request. Character length and limitations: 20 single-byte characters |

GetExpressCheckoutDetails API

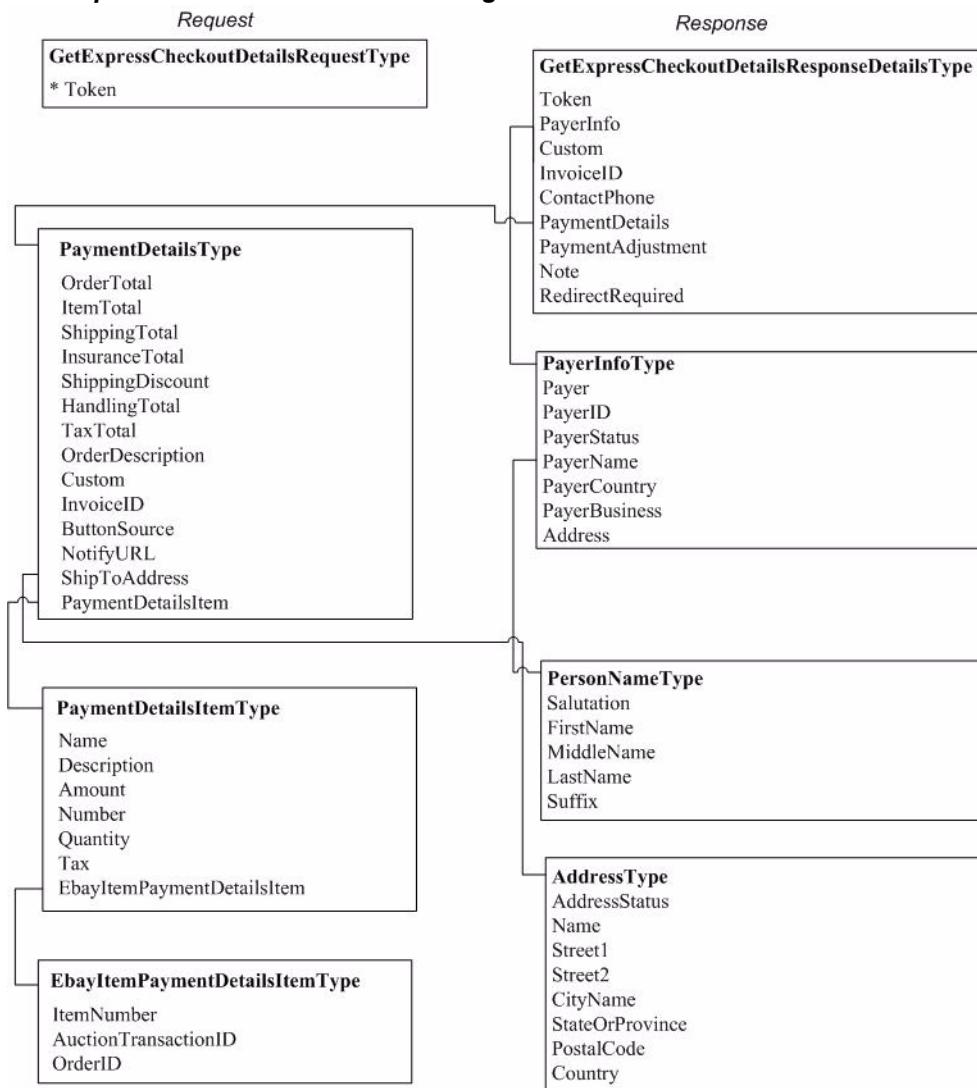
Obtain information about an Express Checkout transaction.

- “[GetExpressCheckoutDetails Request](#)” on page 62
- “[GetExpressCheckoutDetails Response](#)” on page 62

Express Checkout API Operations

GetExpressCheckoutDetails API

GetExpressCheckoutDetails API Diagram



GetExpressCheckoutDetails Request

GetExpressCheckoutDetailsType Request Fields

| Field | Description |
|-------|---|
| Token | <p><code>xs:string</code></p> <p>(Required) A timestamped token, the value of which was returned by SetExpressCheckout response.</p> <p>Character length and limitations: 20 single-byte characters</p> |

GetExpressCheckoutDetails Response

- [GetExpressCheckoutDetails Response Fields](#)
- [Payer Information Fields](#)
- [Payer Name Fields](#)
- [Ship To Address Fields](#)
- [Payment Details Type Fields](#)
- [Payment Details Item Type Fields](#)
- [eBay Item Payment Details Item Type Fields](#)

Express Checkout API Operations

GetExpressCheckoutDetails API

GetExpressCheckoutDetailsResponseType Fields

| Field | Description |
|------------------|--|
| Token | <p>xs:string</p> <p>The timestamped token value that was returned by SetExpressCheckout response and passed on GetExpressCheckoutDetails request.</p> <p>Character length and limitations: 20 single-byte characters</p> |
| PayerInfo | <p>ebl:PayerInfoType</p> <p>Information about the payer.</p> |
| Custom | <p>xs:string</p> <p>A free-form field for your own use, as set by you in the Custom element of SetExpressCheckout request.</p> <p>Character length and limitations: 256 single-byte alphanumeric characters</p> |
| InvoiceID | <p>xs:string</p> <p>Your own invoice or tracking number, as set by you in the element of the same name in SetExpressCheckout request .</p> <p>Character length and limitations: 127 single-byte alphanumeric characters</p> |
| ContactPhone | <p>xs:string</p> <p>Payer's contact telephone number.</p> <p>NOTE: PayPal returns a contact telephone number only if your Merchant account profile settings require that the buyer enter one.</p> <p>Character length and limitations: Field mask is XXX-XXX-XXXX (for US numbers) or +XXX XXXXXXXX (for international numbers)</p> |
| PaymentDetails | <p>ebl:PaymentDetailsType</p> <p>Information about the payment.</p> |
| PayPalAdjustment | <p>cc:BasicAmountType</p> <p>A discount or gift certificate offered by PayPal to the buyer. This amount will be represented by a negative amount. If the buyer has a negative PayPal account balance, PayPal adds the negative balance to the transaction amount, which is represented as a positive value.</p> |
| Note | <p>xs:string</p> <p>The text entered by the buyer on the PayPal website if the AllowNote field was set to 1 in SetExpressCheckout.</p> <p>Character length and limitations: 255 single-byte characters</p> |
| RedirectRequired | <p>xs:boolean</p> <p>Flag to indicate whether you need to redirect the customer to back to PayPal after completing the transaction.</p> <p>NOTE: Use this field only if you are using giropay or bank transfer payment methods in Germany.</p> |

PayerInfoType Fields

| Field | Description |
|---------------|--|
| Payer | ebl:EmailAddressType Email address of payer. Character length and limitations: 127 single-byte characters |
| PayerID | ebl:UserIDType Unique PayPal customer account identification number. Character length and limitations: 13 single-byte alphanumeric characters. |
| PayerStatus | ebl:PayPalUserStatusCodeType Status of payer. Valid values are: <ul style="list-style-type: none">• verified• unverified Character length and limitations: 10 single-byte alphabetic characters. |
| PayerName | ebl:PersonNameType First and last name of payer. |
| PayerCountry | ebl:CountryCode Type Payer's country of residence in the form of ISO standard 3166 two-character country codes. Character length and limitations: Two single-byte characters |
| PayerBusiness | xs:string Payer's business name. Character length and limitations: 127 single-byte characters |
| Address | xs:string Payer's shipping address information. |

PayerName Fields

| Field | Description |
|--------------|--|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters |
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters |
| LastName | ebl:NameType Payer's last name. Character length and limitations: 25 single-byte characters |

Express Checkout API Operations

GetExpressCheckoutDetails API

| Field | Description |
|--------|---|
| Prefix | ebl:PrefixType Payer's prefix. Character length and limitations: 12 single-byte characters |

AddressType Fields

| Field | Description |
|-----------------|---|
| AddressStatus | ebl:AddressStatusTypeCode Status of street address on file with PayPal Valid values are: <ul style="list-style-type: none">• none• Confirmed• Unconfirmed |
| Name | xs:string Person's name associated with this address. Character length and limitations: 32 single-byte characters |
| Street1 | xs:string First street address. Character length and limitations: 100 single-byte characters |
| Street2 | xs:string Second street address. Character length and limitations: 100 single-byte characters |
| CityName | xs:string Name of city. Character length and limitations: 40 single-byte characters |
| StateOrProvince | xs:string State or province. Character length and limitations: 40 single-byte characters Required for U.S. addresses only. |
| PostalCode | xs:string U.S. ZIP code or other country-specific postal code. Character length and limitations: 20 single-byte characters |
| Country | ebl:CountryCode Country code. See " Country Codes " on page 257. Character limit: Two single-byte characters |

Express Checkout API Operations

GetExpressCheckoutDetails API

PaymentDetailsType Fields

| Field | Description |
|---------------|--|
| OrderTotal | ebl:BasicAmountType <i>(Required)</i> The total cost of the transaction to the customer. If shipping cost and tax charges are known, include them in this value; if not, this value should be the current sub-total of the order. If the transaction includes one or more one-time purchases, this field must be equal to the sum of the purchases. Set this field to 0 if the transaction does not include a one-time purchase; for example, when you set up a billing agreement for a recurring payment that is not immediately charged. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| ItemTotal | ebl:BasicAmountType <i>(Optional)</i> Sum of cost of all items in this order. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| ShippingTotal | ebl:BasicAmountType <i>(Optional)</i> Total shipping costs for this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| HandlingTotal | ebl:BasicAmountType <i>(Optional)</i> Total handling costs for this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |

| Field | Description |
|--------------------|--|
| TaxTotal | ebl:BasicAmountType <i>(Optional)</i> Sum of tax for all items in this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| OrderDescription | xs:string <i>(Optional)</i> Description of items the customer is purchasing. Character length and limitations: 127 single-byte alphanumeric characters |
| Custom | xs:string <i>(Optional)</i> A free-form field for your own use. Character length and limitations: 256 single-byte alphanumeric characters |
| InvoiceID | xs:string <i>(Optional)</i> Your own invoice or tracking number. Character length and limitations: 127 single-byte alphanumeric characters |
| ButtonSource | xs:string <i>(Optional)</i> An identification code for use by third-party applications to identify transactions. Character length and limitations: 32 single-byte alphanumeric characters |
| NotifyURL | xs:string <i>(Optional)</i> Your URL for receiving Instant Payment Notification (IPN) about this transaction. NOTE: If you do not specify this value in the request, the notification URL from your Merchant Profile is used, if one exists. Character length and limitations: 2,048 single-byte alphanumeric characters |
| ShipToAddress | ns:AddressType <i>(Optional)</i> Address the order will be shipped to. |
| PaymentDetailsItem | ebl:PaymentDetailsItemType <i>(Optional)</i> Details about each individual item included in the order. |

Express Checkout API Operations

GetExpressCheckoutDetails API

PaymentDetailsItemType Fields

| Field | Description |
|----------------------------|---|
| Name | xs:string <i>(Optional)</i> Item name. Character length and limitations: 127 single-byte characters |
| Amount | ebl:BasicAmountType <i>(Optional)</i> Cost of item. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. |
| | NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| Number | xs:string <i>(Optional)</i> Item number. Character length and limitations: 127 single-byte characters |
| Quantity | xs:integer <i>(Optional)</i> Item quantity. Character length and limitations: Any positive integer |
| Tax | ebl:BasicAmountType <i>(Optional)</i> Item sales tax. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. |
| | NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| EbayItemPaymentDetailsItem | eBl:ebayItemPaymentDetailsItemType <i>(Optional)</i> Information relating to an auction sale on eBay. |

EbayItemPaymentDetailsItemType Fields

| Field | Description |
|----------------------|---|
| ItemNumber | xs:string <i>(Optional)</i> Auction item number. Character length: 765 single-byte characters. |
| AuctionTransactionId | xs:string <i>(Optional)</i> Auction transaction identification number. Character length: 255 single-byte characters |

| Field | Description |
|---------|---|
| OrderID | xs:string <i>(Optional)</i> Auction order identification number. Character length: 64 single-byte characters. |

DoExpressCheckoutPayment API

Completes an Express Checkout transaction.

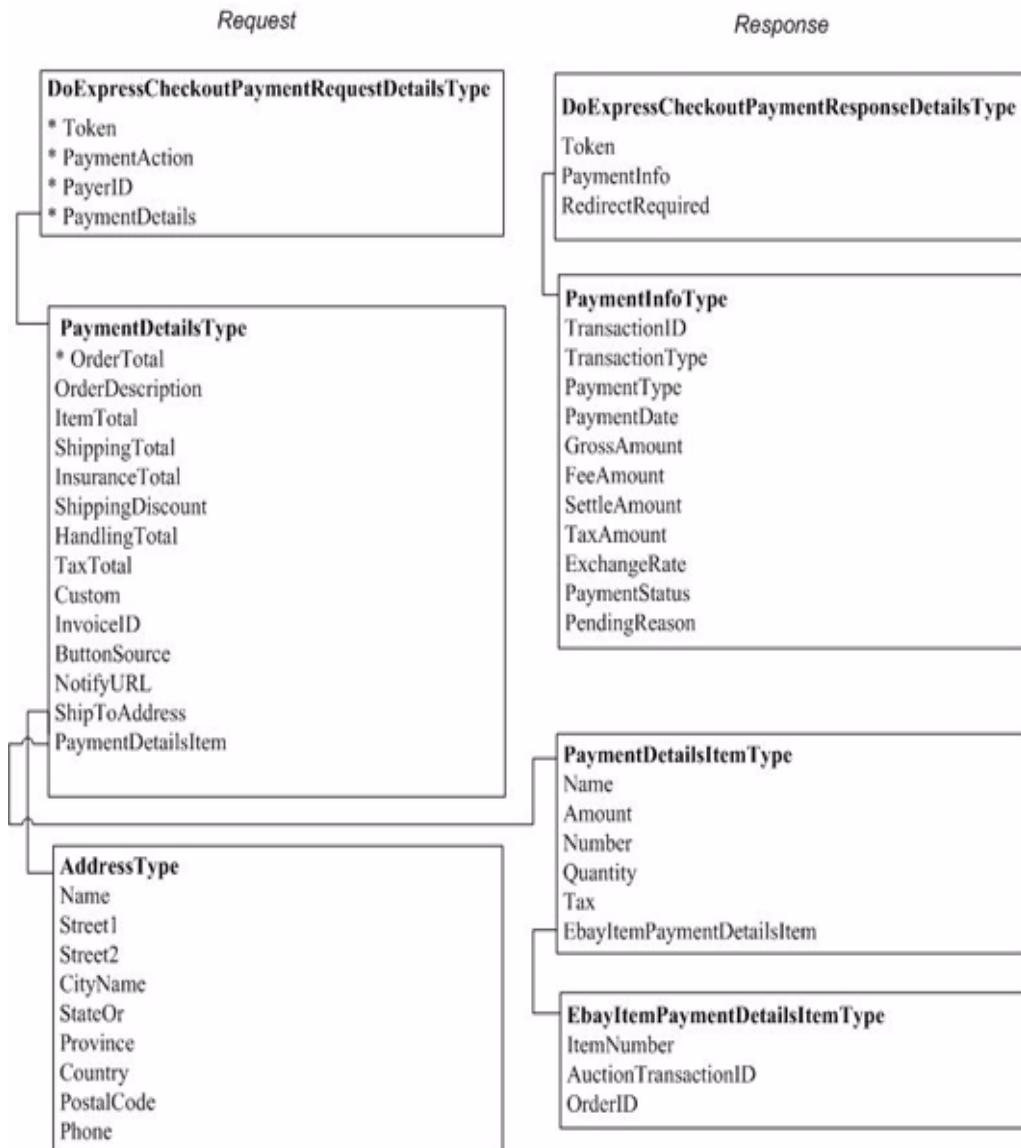
If you set up a billing agreement in your SetExpressCheckout API call, the billing agreement is created when you call the DoExpressCheckoutPayment API operation.

- “[DoExpressCheckoutPayment Request](#)” on page 72
- “[DoExpressCheckoutPayment Response](#)” on page 77

Express Checkout API Operations

DoExpressCheckoutPayment API

DoExpressCheckoutPayment API Diagram (to be updated)



DoExpressCheckoutPayment Request

- DoExpressCheckout Request Fields
- Payment Details Type Fields
- eBay Item Payment Details Item Type Fields
- Payment Details Item Type Fields
- Address Fields

DoExpressCheckoutPaymentRequestType Fields

| Field | Description |
|------------------|--|
| Token | <p>xs:string <i>(Required)</i> The timestamped token value that was returned by SetExpressCheckout response and passed on GetExpressCheckoutDetails request.</p> <p>Character length and limitations: 20 single-byte characters</p> |
| PaymentAction | <p>ebl:PaymentActionCodeType <i>(Required)</i> How you want to obtain payment:</p> <ul style="list-style-type: none"> • Authorization indicates that this payment is a basic authorization subject to settlement with PayPal Authorization & Capture. • Order indicates that this payment is an order authorization subject to settlement with PayPal Authorization & Capture. • Sale indicates that this is a final sale for which you are requesting payment. <p>NOTE: You cannot set this value to Sale on SetExpressCheckout request and then change this value to Authorization on the final PayPal Express Checkout API DoExpressCheckoutPayment request.</p> <p>Character length and limit: Up to 13 single-byte alphabetic characters</p> |
| PayerID | <p>ebl:UserIDType <i>(Required)</i> Unique PayPal customer account identification number as returned by GetExpressCheckoutDetails response. Character length and limitations: 13 single-byte alphanumeric characters.</p> |
| PaymentDetails | <p>ebl:PaymentDetailsType <i>(Required)</i> Information about the payment.</p> |
| ReturnFMFDetails | <p>xs:boolean <i>(Optional)</i> Flag to indicate whether you want the results returned by Fraud Management Filters. By default, you do not receive this information.</p> <ul style="list-style-type: none"> • 0 - do not receive FMF details (default) • 1 - receive FMF details |

Express Checkout API Operations

DoExpressCheckoutPayment API

PaymentDetailsType Fields

| Field | Description |
|---------------|--|
| OrderTotal | ebl:BasicAmountType <i>(Required)</i> The total cost of the transaction to the customer. If shipping cost and tax charges are known, include them in this value; if not, this value should be the current sub-total of the order. If the transaction includes one or more one-time purchases, this field must be equal to the sum of the purchases. Set this field to 0 if the transaction does not include a one-time purchase; for example, when you set up a billing agreement for a recurring payment that is not immediately charged. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| ItemTotal | ebl:BasicAmountType <i>(Optional)</i> Sum of cost of all items in this order. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| ShippingTotal | ebl:BasicAmountType <i>(Optional)</i> Total shipping costs for this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| HandlingTotal | ebl:BasicAmountType <i>(Optional)</i> Total handling costs for this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |

| Field | Description |
|--------------------|--|
| TaxTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Sum of tax for all items in this order.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| OrderDescription | <p>xs:string</p> <p>(Optional) Description of items the customer is purchasing.</p> <p>Character length and limitations: 127 single-byte alphanumeric characters</p> |
| Custom | <p>xs:string</p> <p>(Optional) A free-form field for your own use.</p> <p>Character length and limitations: 256 single-byte alphanumeric characters</p> |
| InvoiceID | <p>xs:string</p> <p>(Optional) Your own invoice or tracking number.</p> <p>Character length and limitations: 127 single-byte alphanumeric characters</p> |
| ButtonSource | <p>xs:string</p> <p>(Optional) An identification code for use by third-party applications to identify transactions.</p> <p>Character length and limitations: 32 single-byte alphanumeric characters</p> |
| NotifyURL | <p>xs:string</p> <p>(Optional) Your URL for receiving Instant Payment Notification (IPN) about this transaction.</p> <p>NOTE: If you do not specify this value in the request, the notification URL from your Merchant Profile is used, if one exists.</p> <p>Character length and limitations: 2,048 single-byte alphanumeric characters</p> |
| ShipToAddress | <p>ns:AddressType</p> <p>(Optional) Address the order will be shipped to.</p> |
| PaymentDetailsItem | <p>ebl:PaymentDetailsItemType</p> <p>(Optional) Details about each individual item included in the order.</p> |

Express Checkout API Operations

DoExpressCheckoutPayment API

PaymentDetailsItemType Fields

| Field | Description |
|----------------------------|--|
| Name | <code>xs:string</code> <i>(Optional)</i> Item name. Character length and limitations: 127 single-byte characters |
| Amount | <code>ebl:BasicAmountType</code> <i>(Optional)</i> Cost of item. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. |
| | NOTE: You must set the <code>currencyID</code> attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| Number | <code>xs:string</code> <i>(Optional)</i> Item number. Character length and limitations: 127 single-byte characters |
| Quantity | <code>xs:integer</code> <i>(Optional)</i> Item quantity. Character length and limitations: Any positive integer |
| Tax | <code>ebl:BasicAmountType</code> <i>(Optional)</i> Item sales tax. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. |
| | NOTE: You must set the <code>currencyID</code> attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| EbayItemPaymentDetailsItem | <code>eBl:ebayItemPaymentDetailsItemType</code> <i>(Optional)</i> Information relating to an auction sale on eBay. |

EbayItemPaymentDetailsItemType Fields

| Field | Description |
|----------------------|--|
| ItemNumber | <code>xs:string</code> <i>(Optional)</i> Auction item number. Character length: 765 single-byte characters. |
| AuctionTransactionId | <code>xs:string</code> <i>(Optional)</i> Auction transaction identification number. Character length: 255 single-byte characters |

| Field | Description |
|---------|---|
| OrderID | <p>xs:string</p> <p>(Optional) Auction order identification number.</p> <p>Character length: 64 single-byte characters.</p> |

AddressType Fields

| Field | Description |
|-----------------|--|
| Name | <p>xs:string</p> <p>Person's name associated with this shipping address. Required if using a shipping address.</p> <p>Character length and limitations: 32 single-byte characters.</p> |
| Street1 | <p>xs:string</p> <p>First street address. Required if using a shipping address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| Street2 | <p>xs:string</p> <p>(Optional) Second street address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| CityName | <p>xs:string</p> <p>Name of city. Required if using a shipping address.</p> <p>Character length and limitations: 40 single-byte characters.</p> |
| StateOrProvince | <p>xs:string</p> <p>State or province. Required if using a shipping address.</p> <p>Character length and limitations: 40 single-byte characters.</p> |
| PostalCode | <p>xs:string</p> <p>U.S. ZIP code or other country-specific postal code. Required if using a U.S. shipping address; may be required for other countries.</p> <p>Character length and limitations: 20 single-byte characters.</p> |
| Country | <p>ebl:CountryCodeType</p> <p>Country code. Required if using a shipping address.</p> <p>Character limit: 2 single-byte characters.</p> |
| Phone | <p>xs:string</p> <p>(Optional) Phone number.</p> <p>Character length and limit: 20 single-byte characters.</p> |

DoExpressCheckoutPayment Response

- [DoExpressCheckoutPayment Response Fields](#)
- [Payment Information Fields](#)
- [Fraud Management Filters Fields](#)

Express Checkout API Operations

DoExpressCheckoutPayment API

- Risk Filter List Fields

DoExpressCheckoutPaymentResponseDetailsType Fields

| Field | Description |
|------------------|---|
| Token | <p>xs:string</p> <p>The timestamped token value that was returned by SetExpressCheckout response and passed on GetExpressCheckoutDetails request.</p> <p>Character length and limitations: 20 single-byte characters</p> |
| PaymentInfo | <p>ebl:PaymentInfoType</p> <p>Information about the payment.</p> |
| Note | <p>xs:string</p> <p>The text entered by the buyer on the PayPal website if the AllowNote field was set to 1 in SetExpressCheckout.</p> <p>Character length and limitations: 255 single-byte characters</p> |
| RedirectRequired | <p>xs:boolean</p> <p>Flag to indicate whether you need to redirect the customer to back to PayPal after completing the transaction.</p> <p>NOTE: Use this field only if you are using giropay or bank transfer payment methods in Germany.</p> |
| FMFDetails | <p>ebl:FMFDetailsType</p> <p>Fraud filter details.</p> |

PaymentInfoType Fields

| Field | Description |
|-----------------|--|
| TransactionID | <p>xs:string</p> <p>Unique transaction ID of the payment.</p> <p>NOTE: If the PaymentAction of the request was Authorization or Order, this value is your AuthorizationID for use with the Authorization & Capture APIs.</p> <p>Character length and limitations: 19 single-byte characters</p> |
| TransactionType | <p>ns:PaymentTransactionCodeType</p> <p>The type of transaction</p> <p>Character length and limitations: 15 single-byte characters</p> <p>Valid values:</p> <ul style="list-style-type: none"> • cart • express-checkout |

Express Checkout API Operations

DoExpressCheckoutPayment API

| Field | Description |
|---------------|---|
| PaymentType | ebl:PaymentCodeType Indicates whether the payment is instant or delayed. Character length and limitations: Seven single-byte characters Valid values: <ul style="list-style-type: none">• none• echeck• instant |
| PaymentDate | xs:dateTime Time/date stamp of payment |
| GrossAmount | ebl:BasicAmountType The final amount charged, including any shipping and taxes from your Merchant Profile. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| FeeAmount | ebl:BasicAmountType PayPal fee amount charged for the transaction Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| SettleAmount | ebl:BasicAmountType Amount deposited in your PayPal account after a currency conversion. |
| TaxAmount | ebl:BasicAmountType Tax charged on the transaction. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| ExchangeRate | xs:string Exchange rate if a currency conversion occurred. Relevant only if you are billing in their non-primary currency. If the customer chooses to pay with a currency other than the non-primary currency, the conversion occurs in the customer's account. Character length and limitations: a decimal that does not exceed 17 characters, including decimal point |
| PaymentStatus | ebl:PendingStatusCodeType Status of the payment: Completed: The payment has been completed, and the funds have been added successfully to your account balance. Pending: The payment is pending. See the PendingReason element for more information. |

| Field | Description |
|---------------|--|
| PendingReason | <p>ebL:PendingStatusCodeType</p> <p>The reason the payment is pending:</p> <ul style="list-style-type: none"> • none: No pending reason. • address: The payment is pending because your customer did not include a confirmed shipping address and your Payment Receiving Preferences is set such that you want to manually accept or deny each of these payments. To change your preference, go to the Preferences section of your Profile. • authorization: The payment is pending because it has been authorized but not settled. You must capture the funds first. • echeck: The payment is pending because it was made by an eCheck that has not yet cleared. • intl: The payment is pending because you hold a non-U.S. account and do not have a withdrawal mechanism. You must manually accept or deny this payment from your Account Overview. • multi-currency: You do not have a balance in the currency sent, and you do not have your Payment Receiving Preferences set to automatically convert and accept this payment. You must manually accept or deny this payment. • order: The payment is pending because it is part of an order that has been authorized but not settled. • paymentreview: The payment is pending while it is being reviewed by PayPal for risk. • unilateral: The payment is pending because it was made to an email address that is not yet registered or confirmed. • verify: The payment is pending because you are not yet verified. You must verify your account before you can accept this payment. • other: The payment is pending for a reason other than those listed above. For more information, contact PayPal customer service. |
| ReasonCode | <p>ebL:ReasonCodeType</p> <p>The reason for a reversal if TransactionType is reversal:</p> <ul style="list-style-type: none"> • none: No reason code • chargeback: A reversal has occurred on this transaction due to a chargeback by your customer. • guarantee: A reversal has occurred on this transaction due to your customer triggering a money-back guarantee. • buyer-complaint: A reversal has occurred on this transaction due to a complaint about the transaction from your customer. • refund: A reversal has occurred on this transaction because you have given the customer a refund. • other: A reversal has occurred on this transaction due to a reason not listed above. |

Express Checkout API Operations

DoExpressCheckoutPayment API

FMFDetailsType Fields

| Field | Description |
|----------------|---|
| AcceptFilters | xs:RiskFilterListType List of filters that recommend acceptance of the payment |
| DenyFilters | xs:RiskFilterListType List of filters that recommend denial of the payment |
| PendingFilters | xs:RiskFilterListType List of filters that caused the payment to become pending. |
| ReportsFilters | xs:RiskFilterListType List of filters that caused the payment to become flagged. |

RiskFilterListType Fields

| Field | Description |
|-------------|---|
| ID | xs:int Filter ID, which is one of the following values: <ul style="list-style-type: none">● 1 = AVS No Match● 2 = AVS Partial Match● 3 = AVS Unavailable/Unsupported● 4 = Card Security Code (CSC) Mismatch● 5 = Maximum Transaction Amount● 6 = Unconfirmed Address● 7 = Country Monitor● 8 = Large Order Number● 9 = Billing/Shipping Address Mismatch● 10 = Risky ZIP Code● 11 = Suspected Freight Forwarder Check● 12 = Total Purchase Price Minimum● 13 = IP Address Velocity● 14 = Risky Email Address Domain Check● 15 = Risky Bank Identification Number (BIN) Check● 16 = Risky IP Address Range● 17 = PayPal Fraud Model |
| Name | xs:string Filter name |
| Description | xs:string Filter description |

5

GetTransactionDetails API

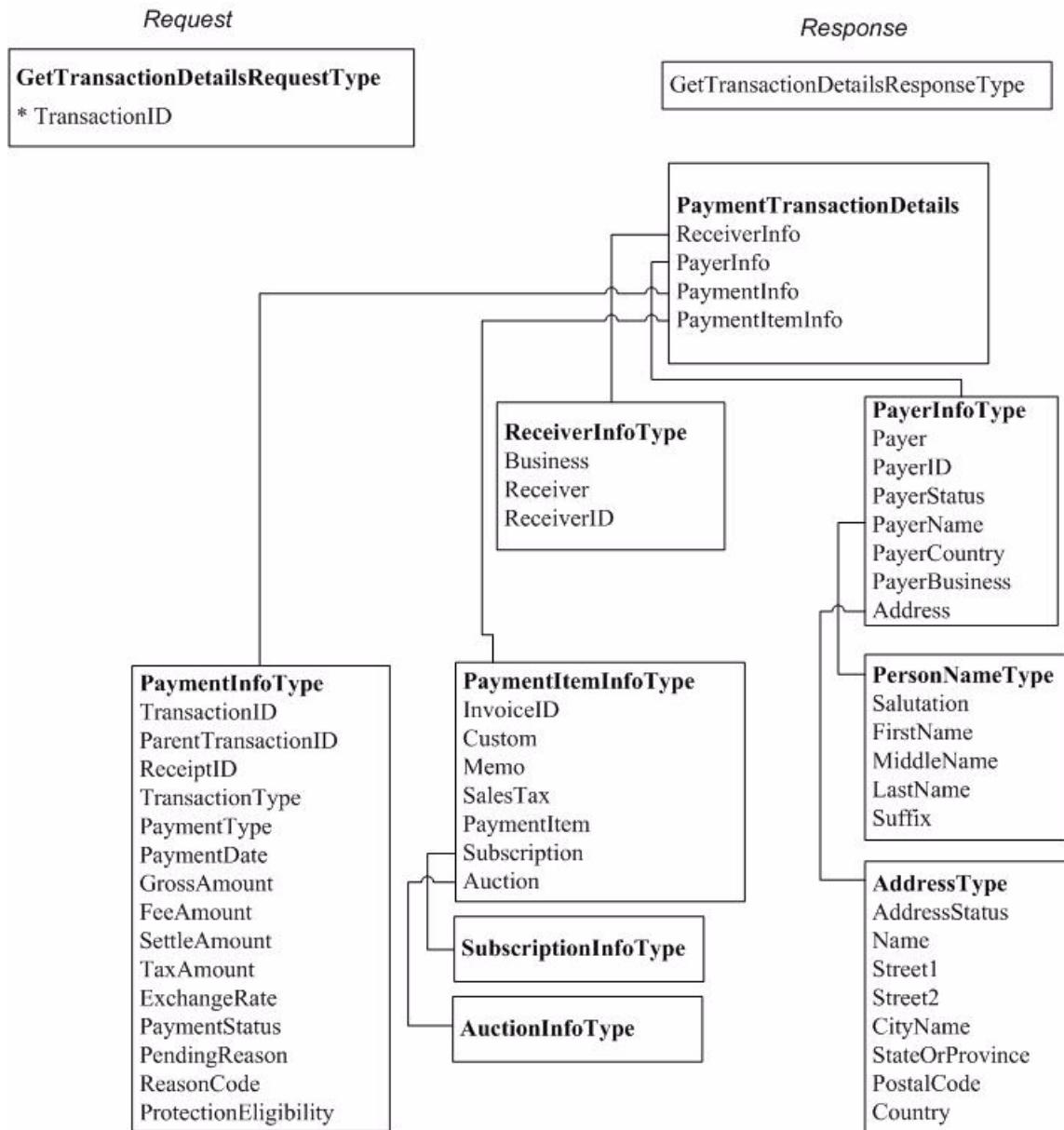
Obtain information about a specific transaction.

- “[GetTransactionDetails Request](#)” on page 84
- “[GetTransactionDetails Response](#)” on page 85

GetTransactionDetails API

GetTransactionDetails Request

GetTransactionDetails API Diagram



GetTransactionDetails Request

GetTransactionDetails Request Fields

| Field | Description |
|---------------|--|
| TransactionID | <p>xs:string <i>(Required)</i> Unique identifier of a transaction.</p> <p>NOTE: The details for some kinds of transactions cannot be retrieved with GetTransactionDetails. You cannot obtain details of bank transfer withdrawals, for example.</p> <p>Character length and limitations: 17 single-byte alphanumeric characters.</p> |

GetTransactionDetails Response

NOTE: All fields defined in the formal structure of GetTransactionDetailsResponse are not necessarily returned. Data are returned in a response only if PayPal has recorded data that corresponds to the field.

- [GetTransactionDetails Response Fields](#)
- [Payment Details Fields](#)
- [Receiver Information Fields](#)
- [Payer Information Fields](#)
- [Address Fields](#)
- [Payer Name Fields](#)
- [Payer Name Fields](#)
- [Payment Information Fields](#)
- [Payment Item Information Fields](#)
- [Subscription Fields](#)
- [Subscription Terms Fields](#)

GetTransactionDetails API

GetTransactionDetails Response

GetTransactionDetailsResponse Fields

| Field | Description |
|---------------------------|--------------------|
| PaymentTransactionDetails | Wrapper structure. |

PaymentTransactionDetails Fields

| Field | Description |
|-----------------|-------------------------|
| ReceiverInfo | ebl:ReceiverInfoType |
| PayerInfo | ebl:PayerInfoType |
| PaymentInfo | ebl:PaymentInfoType |
| PaymentItemInfo | ebl:PaymentItemInfoType |

ReceiverInfoType Fields

| Field | Description |
|------------|---|
| Business | xs:string Details about a single transaction. |
| Receiver | xs:string Primary email address of the payment recipient (the seller). If you are the recipient of the payment and the payment is sent to your non-primary email address, the value of Receiver is still your primary email address. Character length and limitations: 127 single-byte alphanumeric characters |
| ReceiverID | xs:string Unique account ID of the payment recipient (the seller). This value is the same as the value of the recipient's referral ID. |

PayerInfoType Fields

| Field | Description |
|-------------|--|
| Payer | ebl:EmailAddressType Email address of payer. Character length and limitations: 127 single-byte characters. |
| PayerID | ebl:UserIDType Unique PayPal customer account identification number. Character length and limitations: 13 single-byte alphanumeric characters. |
| PayerStatus | ebl:PayPalUserStatusCodeType Status of payer. Valid values are: <ul style="list-style-type: none">• verified• unverified Character length and limitations: 10 single-byte alphabetic characters. |

| Field | Description |
|---------------|--|
| PayerName | ebl:PersonNameType First and last name of payer. |
| PayerCountry | ebl:CountryCodeType Payer's country of residence in the form of ISO standard 3166 two-character country codes. Character length and limitations: Two single-byte characters. |
| PayerBusiness | xs:string Payer's business name. Character length and limitations: 127 single-byte characters. |
| Address | ns:AddressType Payer's shipping address information. |

GetTransactionDetails API

GetTransactionDetails Response

PayerName Fields

| Field | Description |
|------------|---|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters. |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters. |
| LastName | ebl:NameType Payer's last name Character length and limitations: 25 single-byte characters. |
| Suffix | ebl:SuffixType Payer's suffix Character length and limitations: 12 single-byte characters. |

AddressType Fields

| Field | Description |
|---------------|--|
| AddressOwner | ebl:AddressOwnerTypeCode eBay company that maintains this address. Valid values are: <ul style="list-style-type: none">• eBay• PayPal |
| AddressStatus | ebl:AddressStatusTypeCode Status of street address on file with PayPal. Valid values are: <ul style="list-style-type: none">• none• Confirmed• Unconfirmed |
| Name | xs:string Person's name associated with this address. Character length and limitations: 32 single-byte characters. |
| Street1 | xs:string First street address. Character length and limitations: 100 single-byte characters. |

| Field | Description |
|-----------------|---|
| Street2 | <p>xs:string</p> <p>Second street address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| CityName | <p>xs:string</p> <p>Name of city.</p> <p>Character length and limitations: 40 single-byte characters.</p> |
| StateOrProvince | <p>xs:string</p> <p>State or province.</p> <p>Character length and limitations: 40 single-byte characters.</p> <p>Required for U.S. addresses only.</p> |
| PostalCode | <p>xs:string</p> <p>U.S. ZIP code or other country-specific postal code.</p> <p>Character length and limitations: 20 single-byte characters.</p> |
| Country | <p>ns:Country</p> <p>Country code. Character limit: Two single-byte characters.</p> |
| CountryName | <p>xs:string</p> <p>Expanded name of country.</p> <p>Character length and limitations: 64 single-byte alphanumeric characters</p> |
| Phone | <p>xs:string</p> <p>Country code. Character limit: Two single-byte characters.</p> |

GetTransactionDetails API

GetTransactionDetails Response

PaymentInfoType Fields

| Field | Description |
|---------------------|---|
| TransactionID | <p>xs:string</p> <p>Unique transaction ID of the payment.</p> <p>Character length and limitations: 17 single-byte characters</p> |
| ParentTransactionID | <p>xs:string</p> <ul style="list-style-type: none">• Parent or related transaction identification number. This field is populated for the following transaction types:• Reversal. Capture of an authorized transaction.• Reversal. Reauthorization of a transaction.• Capture of an order. The value of ParentTransactionID is the original OrderID.• Authorization of an order. The value of ParentTransactionID is the original OrderID.• Capture of an order authorization.• Void of an order. The value of ParentTransactionID is the original OrderID. <p>Character length and limits: 16 digits in xxxx-xxxx-xxxx-xxxx format</p> |
| ReceiptID | <p>xs:string</p> <p>Receipt identification number</p> <p>Character length and limits: 16 digits in xxxx-xxxx-xxxx-xxxx format</p> |
| TransactionType | <p>ns:PaymentTransactionCodeType</p> <p>The type of transaction</p> <p>Valid values:</p> <ul style="list-style-type: none">• cart• express-checkout <p>Character length and limitations: 15 single-byte characters</p> |
| PaymentType | <p>ebl:PaymentCodeType</p> <p>Indicates whether the payment is instant or delayed.</p> <p>Character length and limitations: Seven single-byte characters</p> <p>Valid values:</p> <ul style="list-style-type: none">• none• echeck• instant |
| PaymentDate | <p>xs:dateTime</p> <p>Time/date stamp of payment. For example: 2006-08-15T17:23:15Z.</p> |
| GrossAmount | <p>ebl:BasicAmountType</p> <p>The final amount charged, including any shipping and taxes from your Merchant Profile.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |

| Field | Description |
|---------------|---|
| FeeAmount | ebl:BasicAmountType PayPal fee amount charged for the transactionCharacter length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| SettleAmount | ebl:BasicAmountType Amount deposited in your PayPal account after a currency conversion. |
| TaxAmount | ebl:BasicAmountType Tax charged on the transaction. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| ExchangeRate | xs:string Exchange rate if a currency conversion occurred. Relevant only if you are billing in their non-primary currency. If the customer chooses to pay with a currency other than the non-primary currency, the conversion occurs in the customer's account.Character length and limitations: a decimal that does not exceed 17 characters, including decimal point |
| PaymentStatus | ebl:PendingStatusCodeType Status of the payment. The status of the payment: <ul style="list-style-type: none">• None: No status• Canceled-Reversal: A reversal has been canceled; for example, when you win a dispute and the funds for the reversal have been returned to you.• Completed: The payment has been completed, and the funds have been added successfully to your account balance.• Denied: You denied the payment. This happens only if the payment was previously pending because of possible reasons described for the PendingReason element.• Expired: the authorization period for this payment has been reached.• Failed: The payment has failed. This happens only if the payment was made from your customer's bank account.• In-Progress: The transaction has not terminated, e.g. an authorization may be awaiting completion.• Partially-Refunded: The payment has been partially refunded.• Pending: The payment is pending. See the PendingReason field for more information.• Refunded: You refunded the payment.• Reversed: A payment was reversed due to a chargeback or other type of reversal. The funds have been removed from your account balance and returned to the buyer. The reason for the reversal is specified in the ReasonCode element.• Processed: A payment has been accepted.• Voided: An authorization for this transaction has been voided. |

GetTransactionDetails API

GetTransactionDetails Response

| Field | Description |
|---------------|--|
| PendingReason | <p>ebl:PendingStatusCodeType</p> <p>NOTE: PendingReason is returned in the response only if PaymentStatus is Pending.</p> <p>The reason the payment is pending:</p> <ul style="list-style-type: none">● none: No pending reason.● address: The payment is pending because your customer did not include a confirmed shipping address and your Payment Receiving Preferences is set such that you want to manually accept or deny each of these payments. To change your preference, go to the Preferences section of your Profile.● authorization: The payment is pending because it has been authorized but not settled. You must capture the funds first.● echeck: The payment is pending because it was made by an eCheck that has not yet cleared.● intl: The payment is pending because you hold a non-U.S. account and do not have a withdrawal mechanism. You must manually accept or deny this payment from your Account Overview.● multi-currency: You do not have a balance in the currency sent, and you do not have your Payment Receiving Preferences set to automatically convert and accept this payment. You must manually accept or deny this payment.● order: The payment is pending because it is part of an order that has been authorized but not settled.● paymentreview: The payment is pending while it is being reviewed by PayPal for risk.● unilateral: The payment is pending because it was made to an email address that is not yet registered or confirmed.● verify: The payment is pending because you are not yet verified. You must verify your account before you can accept this payment.● other: The payment is pending for a reason other than those listed above. For more information, contact PayPal customer service. |
| ReasonCode | <p>ebl:ReasonCodeType</p> <p>The reason for a reversal if TransactionType is reversal:</p> <ul style="list-style-type: none">● none: No reason code● chargeback: A reversal has occurred on this transaction due to a chargeback by your customer.● guarantee: A reversal has occurred on this transaction due to your customer triggering a money-back guarantee.● buyer-complaint: A reversal has occurred on this transaction due to a complaint about the transaction from your customer.● refund: A reversal has occurred on this transaction because you have given the customer a refund.● other: A reversal has occurred on this transaction due to a reason not listed above. |

| Field | Description |
|-----------------------|--|
| ProtectionEligibility | <p>xs:string</p> <p>The kind of seller protection in force for the transaction, which is one of the following values:</p> <ul style="list-style-type: none">• Eligible – Seller is protected by PayPal's Seller Protection Policy for Unauthorized Payments and Item Not Received• PartiallyEligible – Seller is protected by PayPal's Seller Protection Policy for Item Not Received• Ineligible – Seller is not protected under the Seller Protection Policy |

GetTransactionDetails API

GetTransactionDetails Response

PaymentItemInfoType Fields

| Field | Description |
|--------------|---|
| InvoiceID | <code>xs:string</code> Invoice number you set in the original transaction. Character length and limitations: 127 single-byte alphanumeric characters |
| Custom | <code>xs:string</code> Custom field you set in the original transaction. Character length and limitations: 127 single-byte alphanumeric characters |
| Memo | <code>xs:string</code> Memo entered by your customer in PayPal Website Payments note field. Character length and limitations: 255 single-byte alphanumeric characters |
| SalesTax | <code>xs:string</code> Amount of tax charged on payment. |
| PaymentItem | <code>ebl:PaymentItemType</code> Amount of tax charged on payment. |
| Subscription | <code>ebl:SubscriptionInfoType</code> Subscription information |
| Auction | <code>ebl:AuctionInfoType</code> Subscription information |

PaymentItemType Fields

| Field | Description |
|----------|--|
| Name | <code>xs:string</code> Amount of tax charged on payment. |
| Number | <code>xs:string</code> Item number set by you. If this was a shopping cart transaction, PayPal appends the number of the item to the HTML <code>item_number</code> variable. For example, <code>item_number1</code> , <code>item_number2</code> , and so forth. Character length and limitations: 127 single-byte alphanumeric characters |
| Quantity | <code>xs:string</code> Quantity set by you or entered by the customer. Character length and limitations: no limit |
| Amount | <code>ebl:BasicAmountType</code> Cost of item. |
| Options | <code>ns:OptionType</code> <code>name: xs:string</code> <code>value: xs:string</code> PayPal item options for shopping cart. |

AuctionInfoType Fields

| Field | Description |
|--------------|---|
| BuyerID | xs:string Customer's auction ID |
| ClosingDate | xs:string Auction's close date |
| MultiItem | xs:string Counter used for multi-item auction payments |

SubscriptionTermsType Fields

| Field | Description |
|--------------|--|
| Amount | eb:BasicAmountType The amount subscriber is to be charged in one payment. Character length and limitations: no limit |
| Period | xs:string The period of time that the subscriber will be charged. Character length and limitations: no limit |

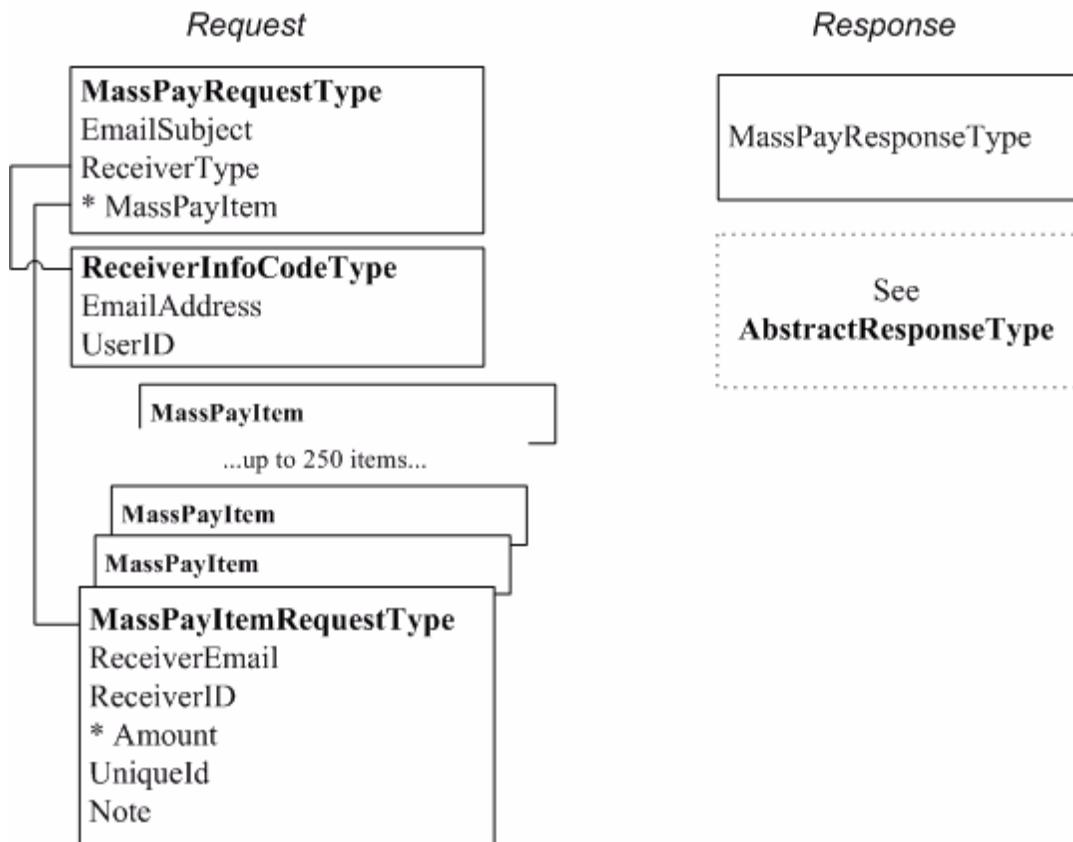
6

MassPay API

Make a payment to one or more PayPal account holders.

- “MassPay Request” on page 97
- “MassPay Response” on page 99

MassPay API Diagram



MassPay Request

- MassPay Request Fields
- MassPay Item Details Fields

MassPay Request Fields

| Field | Description |
|--------------|--|
| EmailSubject | <p>xs:string</p> <p>(Optional) The subject line of the email that PayPal sends when the transaction is completed. The subject line is the same for all recipients.</p> <p>Character length and limitations: 255 single-byte alphanumeric characters.</p> |
| MassPayItem | <p>ebl:MassPayItemType</p> <p>(Required) Details of each payment.</p> <p>NOTE: A single MassPayRequest can include up to 250 MassPayItems.</p> |
| ReceiverType | <p>ebl:ReceiverInfoCodeType</p> <p>(Optional) Indicates how you identify the recipients of payments in this call to MassPay.</p> <p>Must be EmailAddress or UserID</p> |

MassPayItemType Fields

| Field | Description |
|---------------|---|
| ReceiverEmail | <p>ebl:EmailAddressType</p> <p>(See description) Email address of recipient.</p> <p>NOTE: You must specify either ReceiverEmail or ReceiverID, but you must not mix the two in the group of MassPay items. Use only one or the other, but not both, in a single request.</p> <p>Character length and limitations: 127 single-byte characters maximum.</p> |
| ReceiverID | <p>xs:string</p> <p>(See description) Unique PayPal customer account number. This value corresponds to the value of PayerID returned by GetTransactionDetails.</p> <p>NOTE: You must specify either ReceiverEmail or ReceiverID, but you must not mix the two in the group of MassPay items. Use only one or the other, but not both, in a single request.</p> <p>Character length and limitations: 17 single-byte characters maximum.</p> |
| Amount | <p>ebl:BasicAmountType</p> <p>(Required) Payment amount.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> <p>NOTE: You cannot mix currencies in a single MassPayRequest. A single request must include items that are of the same currency.</p> |
| UniqueId | <p>xs:string</p> <p>(Optional) Transaction-specific identification number for tracking in an accounting system.</p> <p>Character length and limitations: 30 single-byte characters. No whitespace allowed.</p> |

| Field | Description |
|-------|---|
| Note | <p>xs:string <i>(Optional)</i> Custom note for each recipient. Character length and limitations: 4,000 single-byte alphanumeric characters.</p> |

MassPay Response

The elements returned are the same as for AbstractResponseType.

7

RefundTransaction API

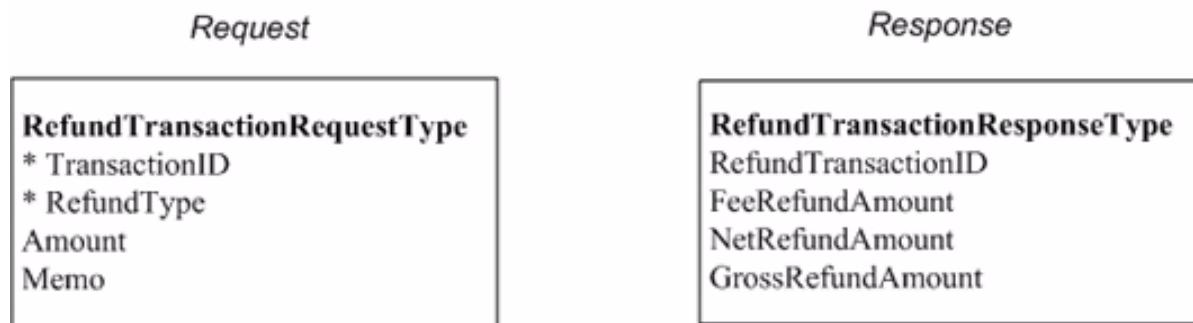
Issue a refund to the PayPal account holder associated with a transaction.

- “[RefundTransaction Request](#)” on page 102
- “[RefundTransaction Response](#)” on page 102

RefundTransaction API

RefundTransaction Request

RefundTransaction API Diagram



RefundTransaction Request

RefundTransaction Request Fields

| Field | Description |
|---------------|--|
| TransactionID | xs:string <i>(Required)</i> Unique identifier of a transaction. Character length and limitations: 17 single-byte alphanumeric characters. |
| RefundType | ebl:RefundPurposeTypeCodeType <i>(Required)</i> Type of refund you are making: <ul style="list-style-type: none">• Other• Full• Partial |
| Amount | ebl:BasicAmountType <i>(See description)</i> Refund amount. Amount is required if RefundType is Partial. NOTE: If RefundType is Full, do not set Amount. |
| Memo | xs:string <i>(Optional)</i> Custom memo about the refund. Character length and limitations: 255 single-byte alphanumeric characters. |

RefundTransaction Response

RefundTransactionResponse Fields

| Field | Description |
|---------------------|---|
| RefundTransactionID | xs:string Unique transaction ID of the refund. Character length and limitations: 17 single-byte characters. |

| Field | Description |
|-------------------|--|
| FeeRefundAmount | ebl:BasicAmountType Transaction fee refunded to original recipient of payment. |
| GrossRefundAmount | ebl:BasicAmountType Amount of money refunded to original payer. |
| NetRefundAmount | ebl:BasicAmountType Amount subtracted from PayPal balance of original recipient of payment to make this refund. |

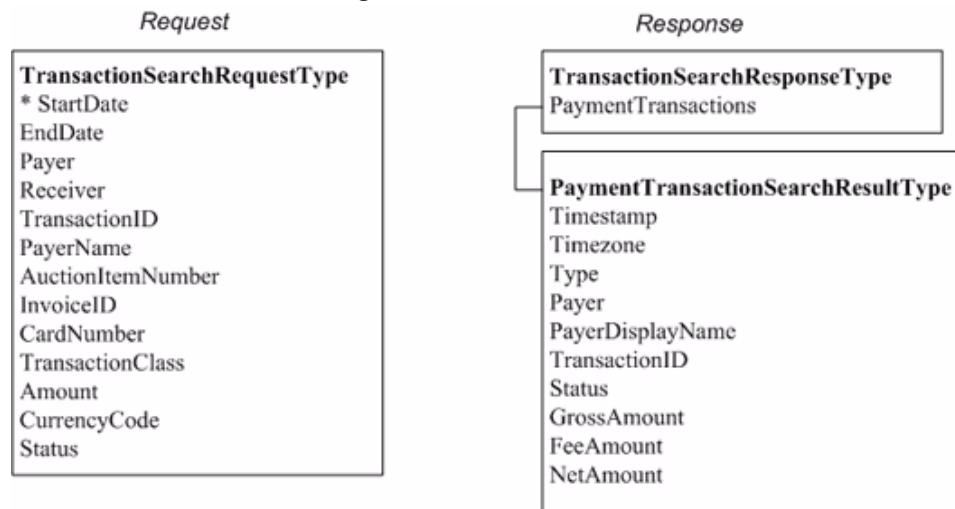
RefundTransaction API

RefundTransaction Response

Search transaction history for transactions that meet the specified criteria.

- “[TransactionSearch Request](#)” on page 105
- “[TransactionSearch Response](#)” on page 108

TransactionSearch API Diagram



TransactionSearch Request

- “[TransactionSearch Request Fields](#)” on page 106
- “[PayerName Fields](#)” on page 108

TransactionSearch API

TransactionSearch Request

TransactionSearch Request Fields

| Field | Description |
|-------------------|--|
| StartDate | <code>xs:dateTime</code> <i>(Required)</i> The earliest transaction date at which to start the search. No wildcards are allowed. The value must be in UTC/GMT format. |
| EndDate | <code>xs:dateTime</code> <i>(Optional)</i> The latest transaction date to be included in the search. |
| Payer | <code>xs:string</code> <code>ebl:EmailAddressType</code> <i>(Optional)</i> Search by the buyer's email address. Character length and limitations: 127 single-byte alphanumeric characters. |
| Receiver | <code>ebl:EmailAddressType</code> <i>(Optional)</i> Search by the receiver's email address. If the merchant account has only one email, this is the primary email. Can also be a non-primary email. |
| ReceiptID | <code>xs:string</code> <i>(Optional)</i> Search by the PayPal Account Optional receipt ID. |
| TransactionID | <code>ebl:TransactionID</code> <i>(Optional)</i> Search by the transaction ID. The returned results are from the merchant's transaction records. Character length and limitations: 19 single-byte characters maximum. |
| InvoiceID | <code>xs:string</code> <i>(Optional)</i> Search by invoice identification key, as set by you for the original transaction. This field searches the records for items sold by the merchant, not the items purchased. NOTE: No wildcards are allowed. Character length and limitations: 127 single-byte characters maximum. |
| CardNumber | <code>xs:string</code> <i>(Optional)</i> Search by credit card number, as set by you for the original transaction. This field searches the records for items sold by the merchant, not the items purchased. NOTE: No wildcards are allowed. Character length and limitations: Must be at least 11 and no more than 25 single-byte numeric characters maximum. Special punctuation, such as dashes or spaces, is ignored. |
| PayerName | <code>ebl:PersonNameType</code> Search by the buyer's name: |
| AuctionItemNumber | <code>xs:string</code> <i>(Optional)</i> Search by auction item number of the purchased goods. |

| Field | Description |
|------------------|---|
| TransactionClass | <p>ePaymentTransactionClassCodeType</p> <p>(Optional) Search by classification of transaction.</p> <p>Some kinds of possible classes of transactions are not searchable with this field. You cannot search for bank transfer withdrawals, for example.</p> <ul style="list-style-type: none"> • All: all transaction classifications • Sent: only payments sent • Received: only payments received • MassPay: only mass payments • MoneyRequest: only money requests • FundsAdded: only funds added to balance • FundsWithdrawn: only funds withdrawn from balance • Referral: only transactions involving referrals • Fee: only transactions involving fees • Subscription: only transactions involving subscriptions • Dividend: only transactions involving dividends • Billpay: only transactions involving BillPay Transactions • Refund: only transactions involving funds • CurrencyConversions: only transactions involving currency conversions • BalanceTransfer: only transactions involving balance transfers • Reversal: only transactions involving BillPay reversals • Shipping: only transactions involving UPS shipping fees • BalanceAffecting: only transactions that affect the account balance • ECheck: only transactions involving eCheck |
| Amount | <p>ebl:BasicAmountType</p> <p>(Optional) Search by transaction amount.</p> |
| | <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| CurrencyCode | <p>xs:token</p> <p>(Optional) Search by currency code.</p> |
| Status | <p>ebl:PaymentTransactionStatusCodeType</p> <p>(Optional) Search by transaction status:</p> <ul style="list-style-type: none"> • Pending: The payment is pending. The specific reason the payment is pending is returned by the GetTransactionDetails API PendingReason field. • Processing: The payment is being processed. • Success: The payment has been completed and the funds have been added successfully to your account balance. • Denied: You denied the payment. This happens only if the payment was previously pending. • Reversed: A payment was reversed due to a chargeback or other type of reversal. The funds have been removed from your account balance and returned to the buyer. |

TransactionSearch API

TransactionSearch Response

PayerName Fields

| Field | Description |
|------------|---|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters. |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters. |
| LastName | ebl:NameType Payer's last name Character length and limitations: 25 single-byte characters. |
| Suffix | ebl:SuffixType Payer's suffix Character length and limitations: 12 single-byte characters. |

TransactionSearch Response

TransactionSearch Response Fields

| Field | Description |
|------------------|---|
| Timestamp | xs:dateTime The date and time (in UTC/GMT format) the transaction occurred. |
| Timezone | xs:string The time zone of the transaction. |
| Type | xs:string The type of the transaction. |
| Payer | ebl:EmailAddressType The email address of either the payer or the payment recipient (the "payee"). If the payment amount is positive, this field is the recipient of the funds. If the payment is negative, this field is the paying customer. |
| PayerDisplayName | xs:string Display name of the payer. |
| TransactionID | xs:string Seller's transaction ID. |

| Field | Description |
|-------------|---|
| Status | xs:string The status of the transaction. |
| GrossAmount | ebl:BasicAmountType The total gross amount charged, including any profile shipping cost and taxes. |
| FeeAmount | ebl:BasicAmountType The fee that PayPal charged for the transaction. |
| NetAmount | ebl:BasicAmountType The net amount of the transaction. |

TransactionSearch API

TransactionSearch Response

Operations

This chapter describes the PayPal API operations related to recurring payments and reference transactions:

- “[CreateRecurringPaymentsProfile API](#)” on page 111
- “[GetRecurringPaymentsProfileDetails API](#)” on page 124
- “[ManageRecurringPaymentsProfileStatus API](#)” on page 135
- “[BillOutstandingAmount API](#)” on page 137
- “[UpdateRecurringPaymentsProfile API](#)” on page 139
- “[SetCustomerBillingAgreement API](#)” on page 149
- “[GetBillingAgreementCustomerDetails API](#)” on page 153
- “[DoReferenceTransaction API](#)” on page 163

CreateRecurringPaymentsProfile API

Create a recurring payments profile.

You must invoke the `CreateRecurringPaymentsProfile` API operation for each profile you want to create. The API operation creates a profile and an associated billing agreement.

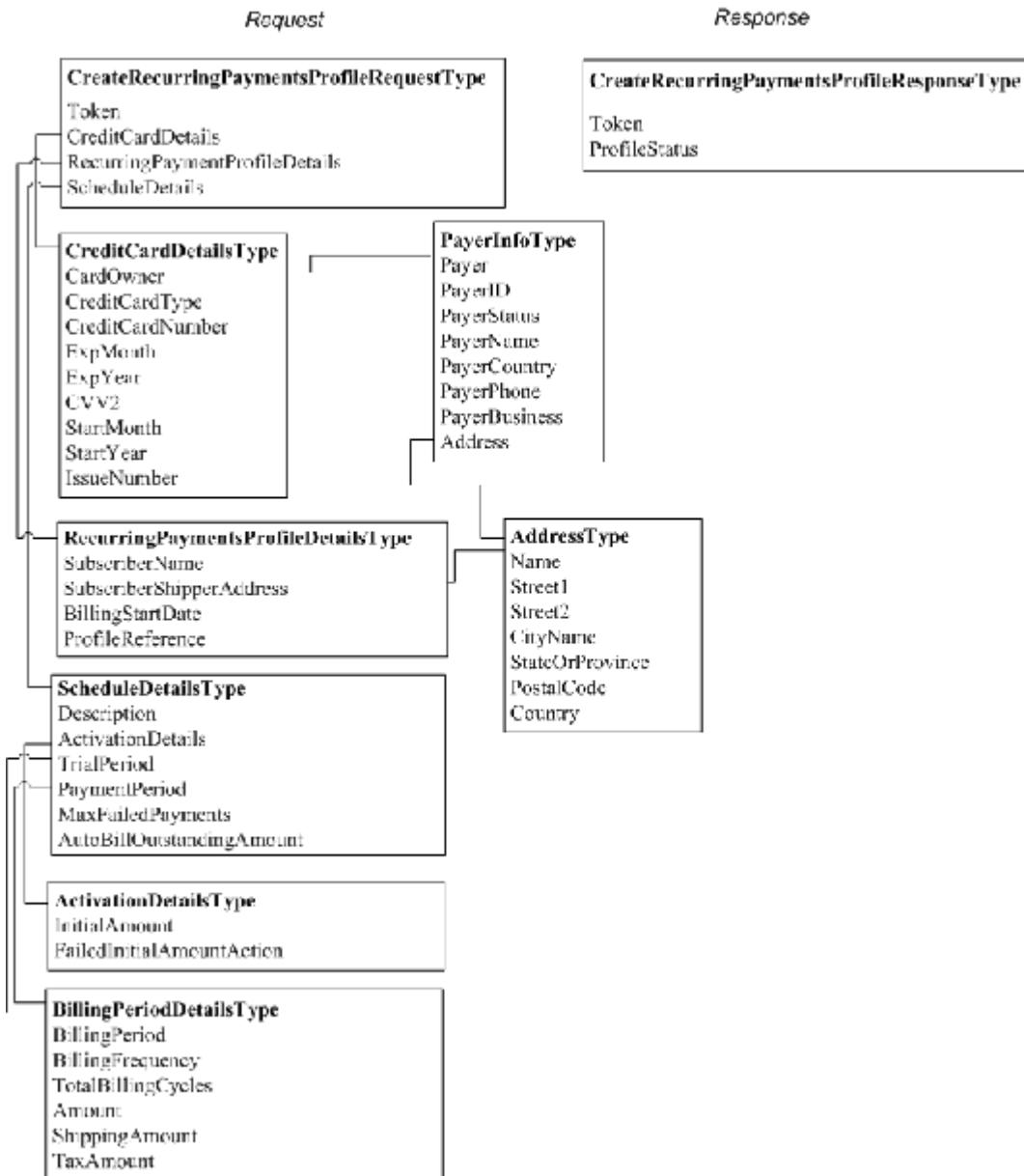
NOTE: There is a one-to-one correspondence between billing agreements and recurring payments profiles. To associate a recurring payments profile with its billing agreement, the description in the recurring payments profile must match the description of a billing agreement. For version 54.0 and later, use `SetExpressCheckout` to initiate creation of a billing agreement.

- “[CreateRecurringPaymentsProfile Request](#)” on page 112
- “[CreateRecurringPaymentsProfile Response](#)” on page 124

Recurring Payments and Reference Transactions API Operations

CreateRecurringPaymentsProfile API

CreateRecurringPaymentsProfile API Diagram



Response

CreateRecurringPaymentsProfileResponseType

Token
ProfileStatus

CreateRecurringPaymentsProfile Request

- CreateRecurringPaymentsProfile Request
- Recurring Payments Profile Details
- Schedule Details
- Billing Period Details
- Activation Details

- Ship To Address
- Credit Card Details
- Payer Information
- Payer Name
- Billing Address

Recurring Payments and Reference Transactions API Operations

CreateRecurringPaymentsProfile API

CreateRecurringPaymentsProfile Request Fields

| Field | Description |
|---------------------------------|--|
| Token | <p>xs:string</p> <p>A timestamped token, the value of which was returned in the response to the first call to SetExpressCheckout. You can also use the token returned in the SetCustomerBillingAgreement response.</p> <p>Either this token or a credit card number is required. If you include both token and credit card number, the token is used and credit card number is ignored.</p> <p>Call CreateRecurringPaymentsProfile once for each billing agreement included in SetExpressCheckout request and use the same token for each call.</p> <p>Each CreateRecurringPaymentsProfile request creates a single recurring payments profile.</p> <p>NOTE: Tokens expire after approximately 3 hours.</p> |
| CreditCard | <p>ns:CreditCardDetailsType</p> <p>Credit card information for recurring payments using direct payments.</p> <p>Either a token or a credit card number is required. If you include both token and credit card number, the token is used and credit card number is ignored.</p> |
| RecurringPaymentsProfileDetails | <p>ns:RecurringPaymentsProfileDetails</p> <p>(Required) You can include up to 10 recurring payments profiles per request. The order of the profile details must match the order of the billing agreement details specified in the SetExpressCheckout request.</p> |
| ScheduleDetails | <p>ns:ScheduleDetailsType</p> <p>(Required)</p> |

RecurringPaymentsProfileDetails Type Fields

| Field | Description |
|---------------------------|---|
| SubscriberName | <p>xs:string</p> <p>(Optional) Full name of the person receiving the product or service paid for by the recurring payment.</p> <p>If not present, the name in the buyer's PayPal account is used.</p> <p>Character length and limitations: 32 single-byte characters.</p> |
| SubscriberShippingAddress | <p>ns:AddressType</p> <p>(Optional) The subscriber's shipping address associated with this profile, if applicable. If not specified, the ship to address from buyer's PayPal account is used.</p> <p>NOTE: Shipping Address is optional, but if you include it, certain fields are required.</p> |
| BillingStartdate | <p>xs:dateTime</p> <p>(Required) The date when billing for this profile begins.</p> <p>Must be a valid date, in UTC/GMT format.</p> <p>NOTE: The profile may take up to 24 hours for activation.</p> |

| Field | Description |
|------------------|---|
| ProfileReference | <p>xs:string</p> <p>(Optional) The merchant's own unique reference or invoice number.</p> <p>Character length and limitations: 127 single-byte alphanumeric characters.</p> |

Recurring Payments and Reference Transactions API Operations

CreateRecurringPaymentsProfile API

ScheduleDetails Type Fields

| Field | Description |
|---------------------------|--|
| Description | <code>xs:string</code> <i>(Required)</i> Description of the recurring payment. NOTE: This field must match the corresponding billing agreement description included in the SetExpressCheckout request. Character length and limitations: 127 single-byte alphanumeric characters |
| ActivationDetails | <code>ns:ActivationDetailsType</code> <i>(Optional)</i> |
| TrialPeriod | <code>ns:BillingPeriodDetailsType</code> <i>(Optional)</i> The trial period for this schedule. |
| PaymentPeriod | <code>ns:BillingPeriodDetailsType</code> <i>(Required)</i> The regular payment period for this schedule. |
| MaxFailedPayments | <code>xs:int</code> <i>(Optional)</i> The number of scheduled payments that can fail before the profile is automatically suspended. An IPN message is sent to the merchant when the specified number of failed payments is reached. Character length and limitations: Number string representing an integer. |
| AutoBillOutstandingAmount | <code>ns:AutoBillType</code> <i>(Optional)</i> This field indicates whether you would like PayPal to automatically bill the outstanding balance amount in the next billing cycle. The outstanding balance is the total amount of any previously failed scheduled payments that have yet to be successfully paid. Valid values: Must be NoAutoBill or AddToNextBilling. |

BillingPeriodDetails Type

| Field | Description |
|-----------------------------|---|
| PaymentPeriod.BillingPeriod | <code>ns:BillingPeriodType</code> <i>(Required)</i> Unit for billing during this subscription period. One of the following values: <ul style="list-style-type: none">● Day● Week● SemiMonth● Month● Year For SemiMonth, billing is done on the 1st and 15th of each month. NOTE: The combination of BillingPeriod and BillingFrequency cannot exceed one year. |

| Field | Description |
|----------------------------------|--|
| PaymentPeriod.BillingFrequency | <p>xs:int <i>(Required)</i> Number of billing periods that make up one billing cycle.</p> <p>The combination of billing frequency and billing period must be less than or equal to one year. For example, if the billing cycle is Month, the maximum value for billing frequency is 12. Similarly, if the billing cycle is Week, the maximum value for billing frequency is 52.</p> <p>NOTE: If the billing period is SemiMonth., the billing frequency must be 1.</p> |
| PaymentPeriod.TotalBillingCycles | <p>xs:int <i>(Optional)</i> The number of billing cycles for payment period.</p> <ul style="list-style-type: none"> For the regular payment period, if no value is specified or the value is 0, the regular payment period continues until the profile is canceled or deactivated. For the regular payment period, if the value is greater than 0, the regular payment period will expire after the trial period is finished and continue at the billing frequency for TotalBillingCycles cycles. |
| PaymentPeriod.Amount | <p>cc:BasicAmountType <i>(Required)</i> Billing amount for each billing cycle during this payment period. This amount does not include shipping and tax amounts.</p> <p>NOTE: All amounts in the CreateRecurringPaymentsProfile request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| TrialPeriod.BillingPeriod | <p>ns:BillingPeriodType Unit for billing during this subscription period; required if you specify an optional trial period.</p> <p>One of the following values:</p> <ul style="list-style-type: none"> Day Week SemiMonth Month Year <p>For SemiMonth, billing is done on the 1st and 15th of each month.</p> <p>NOTE: The combination of BillingPeriod and BillingFrequency cannot exceed one year.</p> |

Recurring Payments and Reference Transactions API Operations

CreateRecurringPaymentsProfile API

| Field | Description |
|--------------------------------|--|
| TrialPeriod.BillingFrequency | <p>xs:int</p> <p>Number of billing periods that make up one billing cycle; required if you specify an optional trial period.</p> <p>The combination of billing frequency and billing period must be less than or equal to one year. For example, if the billing cycle is Month, the maximum value for billing frequency is 12. Similarly, if the billing cycle is Week, the maximum value for billing frequency is 52.</p> <p>NOTE: If the billing period is SemiMonth, the billing frequency must be 1.</p> |
| TrialPeriod.TotalBillingCycles | <p>xs:int</p> <p>(Optional) The number of billing cycles for trial payment period.</p> |
| TrialPeriod.Amount | <p>cc:BasicAmountType</p> <p>Billing amount for each billing cycle during this payment period; required if you specify an optional trial period. This amount does not include shipping and tax amounts.</p> <p>NOTE: All amounts in the CreateRecurringPaymentsProfile request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| ShippingAmount | <p>cc:BasicAmountType</p> <p>(Optional) Shipping amount for each billing cycle during this payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| TaxAmount | <p>cc:BasicAmountType</p> <p>(Optional) Tax amount for each billing cycle during this payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |

ActivationDetails Type

| Field | Description |
|---------------------------|--|
| InitialAmount | <p>cc:BasicAmountType</p> <p>(Optional) Initial non-recurring payment amount due immediately upon profile creation. Use an initial amount for enrolment or set-up fees.</p> <p>NOTE: All amounts included in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| FailedInitialAmountAction | <p>ns:FailedPaymentAction</p> <p>(Optional) By default, PayPal will suspend the pending profile in the event that the initial payment amount fails. You can override this default behavior by setting this field to ContinueOnFailure, which indicates that if the initial payment amount fails, PayPal should add the failed payment amount to the outstanding balance for this recurring payment profile.</p> <p>When this flag is set to ContinueOnFailure, a success code will be returned to the merchant in the CreateRecurringPaymentsProfile response and the recurring payments profile will be activated for scheduled billing immediately. You should check your IPN messages or PayPal account for updates of the payment status.</p> <p>If this field is not set or is set to CancelOnFailure, PayPal will create the recurring payment profile, but will place it into a pending status until the initial payment is completed. If the initial payment clears, PayPal will notify you by IPN that the pending profile has been activated. If the payment fails, PayPal will notify you by IPN that the pending profile has been canceled.</p> <p>Character length and limitations: ContinueOnFailure or CancelOnFailure.</p> |

AddressType Fields

| Field | Description |
|--------------|--|
| Name | <p>xs:string</p> <p>Person's name associated with this address. This field is required for shipping addresses but is optional for credit card billing addresses.</p> <p>Character length and limitations: 32 single-byte characters.</p> |
| Street1 | <p>xs:string</p> <p>First street address. This field is required if the shipping address is used.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| Street2 | <p>xs:string</p> <p>(Optional) Second street address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| CityName | <p>xs:string</p> <p>Name of city. This field is required if the shipping address is used.</p> <p>Character length and limitations: 40 single-byte characters.</p> |

Recurring Payments and Reference Transactions API Operations

CreateRecurringPaymentsProfile API

| Field | Description |
|-----------------|---|
| StateOrProvince | <code>xs:string</code> State or province. This field is required if the shipping address is used. Character length and limitations: 40 single-byte characters. |
| PostalCode | <code>xs:string</code> U.S. ZIP code or other country-specific postal code. This field is required if a U.S. shipping address is used and may be required for other countries. Character length and limitations: 20 single-byte characters. |
| Country | <code>ebl:CountryCodeType</code> Country code. This field is required if the shipping address is used. Character limit: 2 single-byte characters. |
| Phone | <code>xs:string</code> <i>(Optional)</i> Phone number. Character length and limit: 20 single-byte characters. |

CreditCardDetailsType Fields

| Field | Description |
|------------------|---|
| CreditCardType | <p>eb1:CreditCardType</p> <p><i>(Required)</i> Type of credit card.</p> <p>Character length and limitations: Up to ten single-byte alphabetic characters.</p> <p>Allowable values:</p> <ul style="list-style-type: none"> • Visa • MasterCard • Discover • Amex • Maestro: See note. • Solo: See note. <p>For Canada, only MasterCard and Visa are allowable; Interac debit cards are not supported.</p> <p>NOTE: If the credit card type is Maestro or Solo, the currencyId must be GBP. In addition, either StartMonth and StartYear or IssueNumber must be specified.</p> |
| CreditCardNumber | <p>xs:string</p> <p><i>(Required)</i> Credit card number.</p> <p>Character length and limitations: numeric characters only. No spaces or punctuation. Must conform with modulo and length required by each credit card type.</p> |
| ExpMonth | <p>xs:int</p> <p><i>(Required)</i> Credit card expiration month.</p> <p>Character length and limitations: Two single-byte numeric characters, including leading zero.</p> |
| ExpYear | <p>xs:int</p> <p><i>(Required)</i> Credit card expiration year.</p> <p>Character length and limitations: Four single-byte numeric characters.</p> |
| CVV2 | <p>xs:string</p> <p>Card Verification Value, version 2. Your Merchant Account settings determine whether this field is required. Character length for Visa, MasterCard, and Discover: exactly three digits. Character length for American Express: exactly four digits. To comply with credit card processing regulations, you must not store this value after a transaction has been completed.</p> |
| CardOwner | <p>ns:PayerInfoType</p> <p><i>(Required)</i> Details about the owner of the credit card.</p> |
| StartMonth | <p>xs:int</p> <p><i>(Optional)</i> Month that Maestro or Solo card was issued.</p> <p>Character length: Two-digit, zero-filled if necessary.</p> |

Recurring Payments and Reference Transactions API Operations

CreateRecurringPaymentsProfile API

| Field | Description |
|-------------|---|
| StartYear | xs:int <i>(Optional)</i> Year that Maestro or Solo card was issued. Character length: Four digits. |
| IssueNumber | xs:int <i>(Optional)</i> Issue number of Maestro or Solo card. Character length: two numeric digits maximum. |

PayerInfoType Fields

| Field | Description |
|---------------|--|
| Payer | ebl:EmailAddressType Email address of payer. Character length and limitations: 127 single-byte characters. |
| PayerID | ebl:UserIDType Unique PayPal customer account identification number. Character length and limitations: 13 single-byte alphanumeric characters. |
| PayerStatus | ebl:PayPalUserStatusCodeType Status of payer. Valid values are: <ul style="list-style-type: none">• verified• unverified Character length and limitations: 10 single-byte alphabetic characters. |
| PayerName | ebl:PersonNameType First and last name of payer. |
| PayerCountry | ebl:CountryCodeType Payer's country of residence in the form of ISO standard 3166 two-character country codes. Character length and limitations: Two single-byte characters. |
| PayerBusiness | xs:string Payer's business name. Character length and limitations: 127 single-byte characters. |
| Address | xs:string Payer's shipping address information. |

PayerName Fields

| Field | Description |
|--------------|---|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters. |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters. |
| LastName | ebl:NameType Payer's last name Character length and limitations: 25 single-byte characters. |

Recurring Payments and Reference Transactions API Operations

GetRecurringPaymentsProfileDetails API

| Field | Description |
|--------|--|
| Suffix | ebl:SuffixType Payer's suffix Character length and limitations: 12 single-byte characters. |

CreateRecurringPaymentsProfile Response

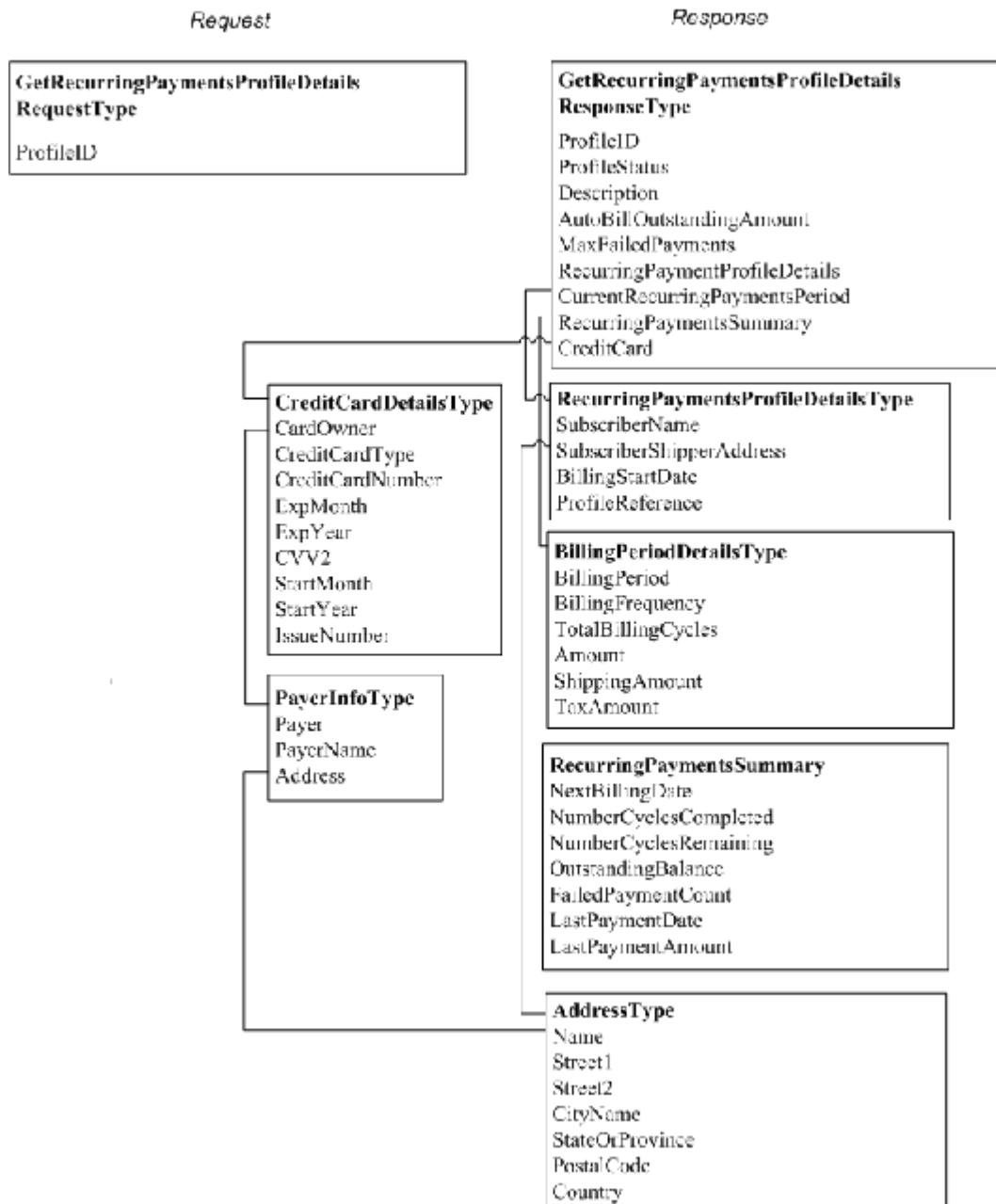
CreateRecurringPaymentsProfile Response Fields

| Field | Description |
|---------------|---|
| ProfileID | xs:string A unique identifier for future reference to the details of this recurring payment. Character length and limitations: Up to 14 single-byte alphanumeric characters. |
| ProfileStatus | ns:RecurringPaymentsProfileStatusType Status of the recurring payment profile. <ul style="list-style-type: none">● ActiveProfile - The recurring payment profile has been successfully created and activated for scheduled payments according the billing instructions from the recurring payments profile.● PendingProfile - The system is in the process of creating the recurring payment profile. Please check your IPN messages for an update. |

GetRecurringPaymentsProfileDetails API

Obtain information about a recurring payments profile.

- “[GetRecurringPaymentsProfileDetails Request](#)” on page 125
- “[GetRecurringPaymentsProfileDetails Response](#)” on page 126

GetRecurringPaymentsProfileDetails API Diagram**GetRecurringPaymentsProfileDetails Request**

GetRecurringPaymentsProfileDetails Request Fields

| Field | Description |
|-----------|---|
| ProfileID | xs:string <i>(Required)</i> Recurring payments profile ID returned in the CreateRecurringPaymentsProfile response. Character length and limitations: 14 single-byte alphanumeric characters. 19 character profile IDs are supported for compatibility with previous versions of the PayPal API. |

GetRecurringPaymentsProfileDetails Response

- [GetRecurringPaymentsProfileDetails Response Fields](#)
- [Recurring Payments Profile Fields](#)
- [Ship To Address Fields](#)
- [Billing Period Fields](#)
- [Recurring Payments Summary Fields](#)
- [Credit Card Fields](#)
- [Payer Information Fields](#)

GetRecurringPaymentsProfileDetails Response Fields

| Field | Description |
|---------------------------------|---|
| ProfileID | xs:string Recurring payments profile ID returned in the CreateRecurringPaymentsProfile response. |
| ProfileStatus | ns:RecurringPaymentsProfileStatusType Status of the recurring payment profile. <ul style="list-style-type: none">● ActiveProfile● PendingProfile● CancelledProfile● SuspendedProfile● ExpiredProfile |
| Description | xs:string Description of the recurring payment. Character length and limitations: 127 single-byte alphanumeric characters. |
| AutoBillOutstandingAmount | ns:AutoBillType This field indicates whether you would like PayPal to automatically bill the outstanding balance amount in the next billing cycle. The outstanding balance is the total amount of any previously failed scheduled payments that have yet to be successfully paid. Valid values: NoAutoBill or AddToNextBilling. |
| MaxFailedPayments | xs:int The number of scheduled payments that can fail before the profile is automatically suspended. Character length and limitations: Number string representing an integer. |
| RecurringPaymentsProfileDetails | ns:RecurringPaymentsProfileDetailsType Buyer information for this recurring payments profile. |
| CurrentRecurringPaymentsPeriod | ns:BillingPeriodDetailsType This field is not returned if the profile is canceled or expired: Details of the current subscription period. |
| RecurringPaymentsSummary | ns:RecurringPaymentsSummaryDetailsType Payment summary for this recurring payments profile. |
| AggregateAmount | ns:AmountType Total amount collected thus far for scheduled payments. Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). |

Recurring Payments and Reference Transactions API Operations

GetRecurringPaymentsProfileDetails API

| Field | Description |
|-------------------------|--|
| AggregateOptionalAmount | ns:AmountType Total amount collected thus far for optional payments. Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). |
| FinalPaymentDueDate | ns:DateTime Final scheduled payment due date before the profile expires. |
| CreditCard | ns:CreditCardDetailsType If this is a recurring payments profile using direct payments, this field contains the credit card information for this profile. NOTE: Only the last four digits of the credit card account number are returned, and the CVV2 value is not returned. |

RecurringPaymentsProfileDetails Type Fields

| Field | Description |
|---------------------------|--|
| SubscriberName | <p>xs:string</p> <p>Full name of the person receiving the product or service paid for by the recurring payment.</p> <p>If not present, the name in the buyer's PayPal account is used.</p> <p>Character length and limitations: 32 single-byte characters.</p> |
| SubscriberShippingAddress | <p>ns:AddressType</p> <p>The subscriber's shipping address associated with this profile, if applicable. If not specified, the ship to address from buyer's PayPal account is used.</p> <p>NOTE: Shipping Address is optional, but if you include it, certain fields are required.</p> |
| BillingStartdate | <p>xs:dateTime</p> <p>The date when billing for this profile begins.</p> <p>Must be a valid date, in UTC/GMT format.</p> <p>NOTE: The profile may take up to 24 hours for activation.</p> |
| ProfileReference | <p>xs:string</p> <p>The merchant's own unique reference or invoice number.</p> <p>Character length and limitations: 127 single-byte alphanumeric characters.</p> |

AddressType Fields

| Field | Description |
|---------------|---|
| AddressStatus | <p>ebl:AddressStatusTypeCode</p> <p>Status of street address on file with PayPal.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> • none • Confirmed • Unconfirmed |
| Name | <p>xs:string</p> <p>Person's name associated with this address.</p> <p>Character length and limitations: 32 single-byte characters.</p> |
| Street1 | <p>xs:string</p> <p>First street address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| Street2 | <p>xs:string</p> <p>Second street address.</p> <p>Character length and limitations: 100 single-byte characters.</p> |
| CityName | <p>xs:string</p> <p>Name of city.</p> <p>Character length and limitations: 40 single-byte characters.</p> |

Recurring Payments and Reference Transactions API Operations

GetRecurringPaymentsProfileDetails API

| Field | Description |
|-----------------|---|
| StateOrProvince | <code>xs:string</code> State or province. Character length and limitations: 40 single-byte characters. Required for U.S. addresses only. |
| PostalCode | <code>xs:string</code> U.S. ZIP code or other country-specific postal code. Character length and limitations: 20 single-byte characters. |
| Country | <code>ebl:CountryCode</code> Country code. Character limit: Two single-byte characters. |

BillingPeriodDetails Type

| Field | Description |
|--------------------|---|
| BillingPeriod | <p>ns:BillingPeriodType</p> <p>Unit for billing during this subscription period.</p> <p>One of the following values:</p> <ul style="list-style-type: none"> • Day • Week • SemiMonth • Month • Year <p>For SemiMonth, billing is done on the 1st and 15th of each month.</p> <p>NOTE: The combination of BillingPeriod and BillingFrequency cannot exceed one year.</p> |
| BillingFrequency | <p>xs:int</p> <p>Number of billing periods that make up one billing cycle.</p> <p>The combination of billing frequency and billing period must be less than or equal to one year. For example, if the billing cycle is Month, the maximum value for billing frequency is 12. Similarly, if the billing cycle is Week, the maximum value for billing frequency is 52.</p> <p>NOTE: If the billing period is SemiMonth, the billing frequency must be 1.</p> |
| TotalBillingCycles | <p>xs:int</p> <p>The number of billing cycles for payment period (either the regular payment period or the trial period).</p> <ul style="list-style-type: none"> • For the trial period, the value must be greater than 0. • For the regular payment period, if no value is specified or the value is 0, the regular payment period continues until the profile is canceled or deactivated. • For the regular payment period, if the value is greater than 0, the regular payment period will expire after the trial period is finished and continue at the billing frequency for TotalBillingCycles cycles. |
| Amount | <p>cc:BasicAmountType</p> <p>Billing amount for each billing cycle during this payment period. This amount does not include shipping and tax amounts.</p> <p>NOTE: All amounts in the CreateRecurringPaymentsProfile request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |

Recurring Payments and Reference Transactions API Operations

GetRecurringPaymentsProfileDetails API

| Field | Description |
|----------------|---|
| ShippingAmount | <p>cc:BasicAmountType</p> <p>Shipping amount for each billing cycle during this payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| TaxAmount | <p>cc:BasicAmountType</p> <p>Tax amount for each billing cycle during this payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |

RecurringPaymentsSummaryDetailsType Fields

| Field | Description |
|-----------------------|--|
| NextBillingDate | xs:dateTime The next scheduled billing date, in YYYY-MM-DD format. |
| NumberCyclesCompleted | xs:int The number of billing cycles completed in the current active subscription period. A billing cycle is considered completed when payment is collected or after retry attempts to collect payment for the current billing cycle have failed. |
| NumberCyclesRemaining | xs:int The number of billing cycles remaining in the current active subscription period. |
| OutstandingBalance | cc:BasicAmountType The current past due or outstanding balance for this profile. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| FailedPaymentCount | xs:int The total number of failed billing cycles for this profile. |
| LastPaymentDate | xs:dateTime The date of the last successful payment received for this profile, in YYYY-MM-DD format. |
| LastPaymentAmount | cc:BasicAmountType The amount of the last successful payment received for this profile. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |

Recurring Payments and Reference Transactions API Operations

GetRecurringPaymentsProfileDetails API

CreditCardDetailsType Fields

| Field | Description |
|------------------|---|
| CreditCardType | ebl:CreditCardType Type of credit card. Character length and limitations: Up to ten single-byte alphabetic characters. Allowable values: <ul style="list-style-type: none">• Visa• MasterCard• Discover• Amex• Maestro: See important note.• Solo: See important note. <p>NOTE: If the credit card type is Maestro or Solo, the currencyId must be GBP. In addition, either StartMonth and StartYear or IssueNumber must be specified.</p> |
| CreditCardNumber | xs:string Credit card number. Only the last 4 digits of the credit card number are returned. Character length and limitations: numeric characters only. No spaces or punctuation. Must conform with modulo and length required by each credit card type. |
| ExpMonth | xs:int Credit card expiration month. Character length and limitations: Two single-byte numeric characters, including leading zero. |
| ExpYear | xs:int Credit card expiration year. Character length and limitations: Four single-byte numeric characters. |
| CardOwner | ns:PayerInfoType Details about the owner of the credit card. |
| StartMonth | xs:int Month that Maestro or Solo card was issued. Character length: Two-digit, zero-filled if necessary. |
| StartYear | xs:int Year that Maestro or Solo card was issued. Character length: Four digits. |
| IssueNumber | xs:int Issue number of Maestro or Solo card. Character length: two numeric digits maximum. |

PayerInfoType Fields

| Field | Description |
|-----------|---|
| Payer | ns:EmailAddressType Email address of payer. Character length and limitations: 127 single-byte characters. |
| FirstName | ns:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |
| LastName | ns:PersonNameType Payer's last name. Character length and limitations: 25 single-byte characters. |
| Address | ns:AddressType Payer's billing address information. |

ManageRecurringPaymentsProfileStatus API

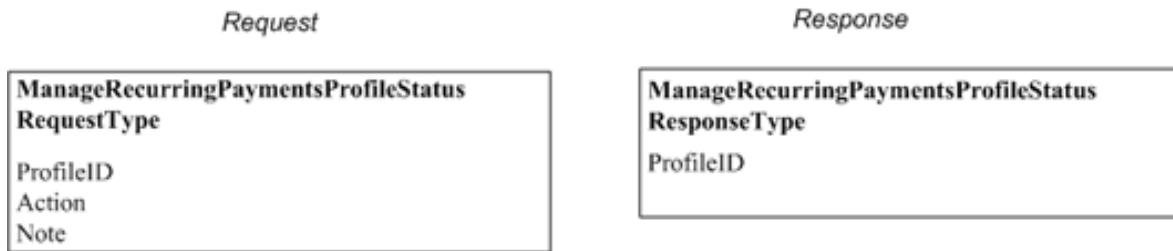
Cancel, suspend, or reactivate a recurring payments profile.

- “[ManageRecurringPaymentsProfileStatus Request](#)” on page 136
- “[ManageRecurringPaymentsProfileStatus Response](#)” on page 136

Recurring Payments and Reference Transactions API Operations

ManageRecurringPaymentsProfileStatus API

ManageRecurringPaymentsProfileStatus API Diagram



ManageRecurringPaymentsProfileStatus Request

ManageRecurringPaymentsProfileStatus Request Fields

| Field | Description |
|-----------|---|
| ProfileID | <code>xs:string</code> <i>(Required)</i> Recurring payments profile ID returned in the <code>CreateRecurringPaymentsProfile</code> response. Character length and limitations: 14 single-byte alphanumeric characters. 19 character profile IDs are supported for compatibility with previous versions of the PayPal API. |
| Action | <code>ns>StatusChangeActionType</code> <i>(Required)</i> The action to be performed to the recurring payments profile. Must be one of the following: <ul style="list-style-type: none">• Cancel - Only profiles in Active or Suspended state can be canceled.• Suspend - Only profiles in Active state can be suspended.• Reactivate - Only profiles in a suspended state can be reactivated. |
| Note | <code>xs:string</code> <i>(Optional)</i> The reason for the change in status. For profiles created using Express Checkout, this message will be included in the email notification to the buyer when the status of the profile is successfully changed, and can also be seen by both you and the buyer on the Status History page of the PayPal account. |

ManageRecurringPaymentsProfileStatus Response

ManageRecurringPaymentsProfileStatus Response Fields

| Field | Description |
|-----------|---|
| ProfileID | <p>xs:string</p> <p>Recurring payments profile ID returned in the <code>CreateRecurringPaymentsProfile</code> response.</p> <p>For each action, an error is returned if the recurring payments profile has a status that is not compatible with the action. Errors are returned in the following cases:</p> <ul style="list-style-type: none">• Cancel - Profile status is not Active or Suspended.• Suspend - Profile status is not Active.• Reactivate - Profile status is not Suspended. |

BillOutstandingAmount API

Bill the buyer for the outstanding balance associated with a recurring payments profile.

- “[BillOutstandingAmount Request](#)” on page 138
- “[BillOutstandingAmount Response](#)” on page 138

BillOutstandingAmount API Diagram**BillOutstandingAmount Request****BillOutstandingAmount Request Fields**

| Field | Description |
|-----------|--|
| ProfileID | <p>xs:string <i>(Required)</i> Recurring payments profile ID returned in the CreateRecurringPaymentsProfile response. Character length and limitations: 14 single-byte alphanumeric characters. 19 character profile IDs are supported for compatibility with previous versions of the PayPal API.</p> <p>NOTE: The profile must have a status of either Active or Suspended.</p> |
| Amount | <p>cc:BasicAmountType <i>(Optional)</i> The amount to bill. The amount must be less than or equal to the current outstanding balance of the profile. If no value is specified, PayPal will attempt to bill the entire outstanding balance amount. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| Note | <p>xs:string <i>(Optional)</i> The reason for the non-scheduled payment. For profiles created using Express Checkout, this message will be included in the email notification to the buyer for the non-scheduled payment transaction, and can also be seen by both you and the buyer on the Status History page of the PayPal account.</p> |

BillOutstandingAmount Response

BillOutstandingAmount Response Fields

| Field | Description |
|-----------|---|
| ProfileID | <p>xs:string</p> <p>Recurring payments profile ID returned in the <code>CreateRecurringPaymentsProfile</code> response.</p> <p>An error is returned if the profile specified in the <code>BillOutstandingAmount</code> request has a status of canceled or expired.</p> |

UpdateRecurringPaymentsProfile API

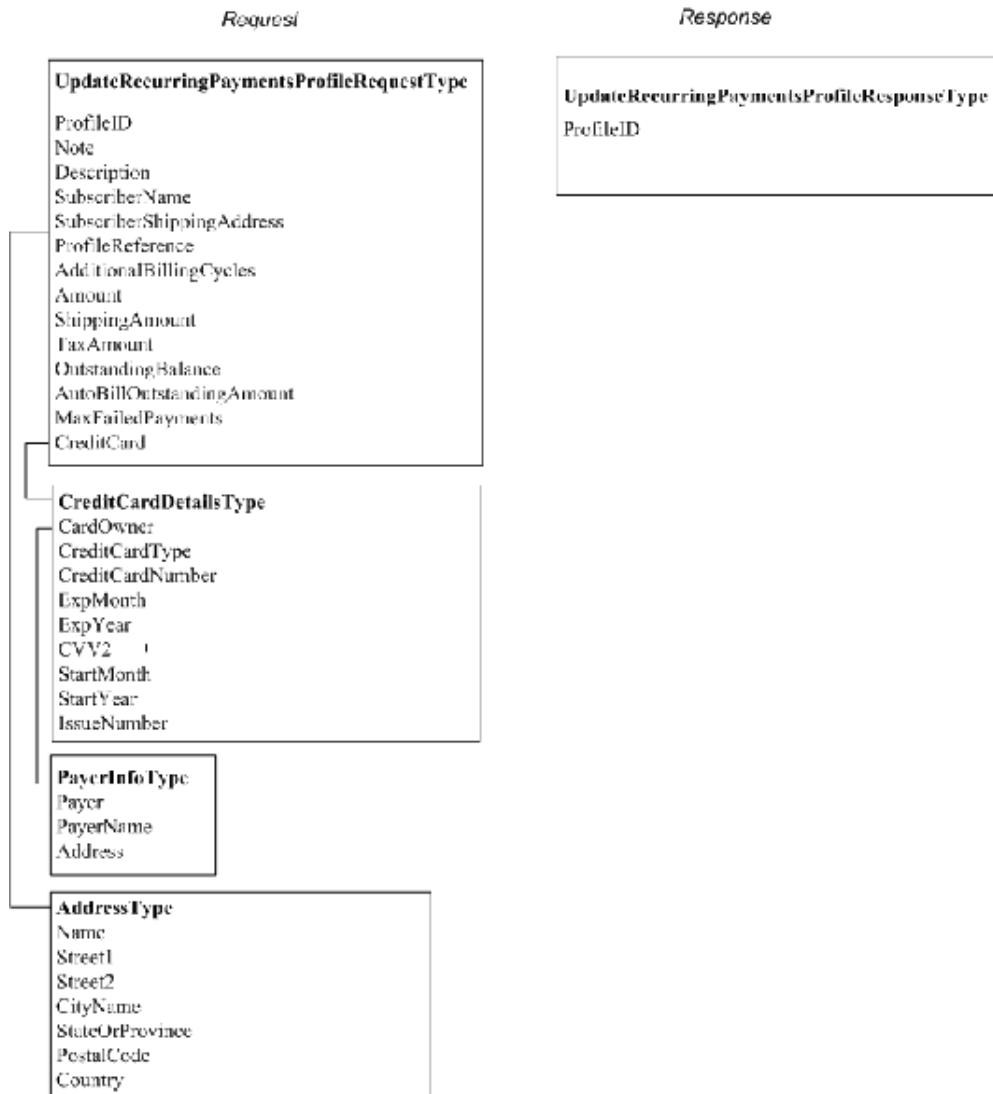
Update a recurring payments profile.

- “[UpdateRecurringPaymentsProfile Request](#)” on page 140
- “[UpdateRecurringPaymentsProfile Response](#)” on page 149

Recurring Payments and Reference Transactions API Operations

UpdateRecurringPaymentsProfile API

UpdateRecurringPaymentsProfile API Diagram



UpdateRecurringPaymentsProfile Request

- **UpdateRecurringPaymentsProfile Request Fields**
- **Ship To Address Fields**
- **Credit Card Fields**
- **Payer Information Fields**

UpdateRecurringPaymentsProfile Request Fields

| Field | Description |
|---------------------------|--|
| ProfileID | <p>xs:string <i>(Required)</i> Recurring payments profile ID returned in the CreateRecurringPaymentsProfile response.</p> <p>Character length and limitations: 14 single-byte alphanumeric characters. 19 character profile IDs are supported for compatibility with previous versions of the PayPal API.</p> |
| Note | <p>xs:string <i>(Optional)</i> The reason for the update to the recurring payments profile. This message will be included in the email notification to the buyer for the recurring payments profile update. This note can also be seen by both you and the buyer on the Status History page of the PayPal account.</p> |
| Description | <p>xs:string <i>(Optional)</i> Description of the recurring payment. Character length and limitations: 127 single-byte alphanumeric characters.</p> |
| SubscriberName | <p>xs:string <i>(Optional)</i> Full name of the person receiving the product or service paid for by the recurring payment. If not present, the name in the buyer's PayPal account is used. Character length and limitations: 32 single-byte characters.</p> |
| SubscriberShippingAddress | <p>ns:AddressType <i>(Optional)</i> The subscriber's shipping address associated with this profile, if applicable. If not specified, the ship to address from buyer's PayPal account is used.</p> <p>NOTE: Shipping Address is optional, but if you update any of the address fields, you must enter all of them. For example, if you want to update the subscriber's street address, you must specify all of the fields listed in ShipTo: AddressType, not just the field for the street address.</p> |
| ProfileReference | <p>xs:string <i>(Optional)</i> The merchant's own unique reference or invoice number. Character length and limitations: 127 single-byte alphanumeric characters.</p> |
| AdditionalBillingCycles | <p>xs:int <i>(Optional)</i> The number of additional billing cycles to add to this profile.</p> |

Recurring Payments and Reference Transactions API Operations

UpdateRecurringPaymentsProfile API

| Field | Description |
|---------------------------|--|
| Amount | <p>cc:BasicAmountType</p> <p>(Optional) Billing amount for each cycle in the subscription period, not including shipping and tax amounts.</p> <p>NOTE: For recurring payments with Express Checkout, the payment amount can be increased by no more than 20% every 180 days (starting when the profile is created).</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| ShippingAmount | <p>cc:BasicAmountType</p> <p>(Optional) Shipping amount for each billing cycle during the regular payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| TaxAmount | <p>cc:BasicAmountType</p> <p>(Optional) Tax amount for each billing cycle during the regular payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| OutstandingBalance | <p>cc:BasicAmountType</p> <p>(Optional) The current past due or outstanding amount for this profile. You can only decrease the outstanding amount—it cannot be increased.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| AutoBillOutstandingAmount | <p>ns:AutoBillType</p> <p>(Optional) This field indicates whether you would like PayPal to automatically bill the outstanding balance amount in the next billing cycle.</p> <p>Valid values: Must be NoAutoBill or AddToNextBilling.</p> |
| MaxFailedPayments | <p>xs:int</p> <p>(Optional) The number of failed payments allowed before the profile is automatically suspended. The specified value cannot be less than the current number of failed payments for this profile.</p> <p>Character length and limitations: Number string representing an integer.</p> |

| Field | Description |
|------------------|--|
| BillingStartdate | <code>xs:dateTime</code> The date when billing for this profile begins. Must be a valid date, in UTC/GMT format. NOTE: The profile may take up to 24 hours for activation. |
| TrialPeriod | <code>ns:BillingPeriodDetailsType</code> The trial period for this schedule. |
| PaymentPeriod | <code>ns:BillingPeriodDetailsType</code> The regular payment period for this schedule. |
| CreditCard | <code>ns:CreditCardDetailsType</code> <i>(Optional)</i> NOTE: Only enter credit card details for recurring payments with direct payments. NOTE: Credit card billing address is optional, but if you update any of the address fields, you must enter all of them. For example, if you want to update the street address, you must specify all of the address fields listed in <code>CreditCardDetailsType</code> , not just the field for the street address. Credit card information for this profile, if applicable. |

Recurring Payments and Reference Transactions API Operations

UpdateRecurringPaymentsProfile API

AddressType Fields

| Field | Description |
|-----------------|---|
| Name | <code>xs:string</code> Person's name associated with this address. This field is required for shipping addresses but is optional for credit card billing addresses. Character length and limitations: 32 single-byte characters. |
| Street1 | <code>xs:string</code> First street address. This field is required if the shipping address is used. Character length and limitations: 100 single-byte characters. |
| Street2 | <code>xs:string</code> <i>(Optional)</i> Second street address. Character length and limitations: 100 single-byte characters. |
| CityName | <code>xs:string</code> Name of city. This field is required if the shipping address is used. Character length and limitations: 40 single-byte characters. |
| StateOrProvince | <code>xs:string</code> State or province. This field is required if the shipping address is used. Character length and limitations: 40 single-byte characters. |
| PostalCode | <code>xs:string</code> U.S. ZIP code or other country-specific postal code. This field is required if a U.S. shipping address is used and may be required for other countries. Character length and limitations: 20 single-byte characters. |
| Country | <code>ebl:CountryCodeType</code> Country code. This field is required if the shipping address is used. Character limit: 2 single-byte characters. |
| Phone | <code>xs:string</code> <i>(Optional)</i> Phone number. Character length and limit: 20 single-byte characters. |

BillingPeriodDetails Type

| Field | Description |
|----------------------------------|--|
| PaymentPeriod.BillingPeriod | <p>ns:BillingPeriodType <i>(Required)</i> Unit for billing during this subscription period.</p> <p>One of the following values:</p> <ul style="list-style-type: none"> • Day • Week • SemiMonth • Month • Year <p>For SemiMonth, billing is done on the 1st and 15th of each month.</p> <p>NOTE: The combination of BillingPeriod and BillingFrequency cannot exceed one year.</p> |
| PaymentPeriod.BillingFrequency | <p>xs:int <i>(Required)</i> Number of billing periods that make up one billing cycle.</p> <p>The combination of billing frequency and billing period must be less than or equal to one year. For example, if the billing cycle is Month, the maximum value for billing frequency is 12. Similarly, if the billing cycle is Week, the maximum value for billing frequency is 52.</p> <p>NOTE: If the billing period is SemiMonth, the billing frequency must be 1.</p> |
| PaymentPeriod.TotalBillingCycles | <p>xs:int <i>(Optional)</i> The number of billing cycles for payment period.</p> <ul style="list-style-type: none"> • For the regular payment period, if no value is specified or the value is 0, the regular payment period continues until the profile is canceled or deactivated. • For the regular payment period, if the value is greater than 0, the regular payment period will expire after the trial period is finished and continue at the billing frequency for TotalBillingCycles cycles. |
| PaymentPeriod.Amount | <p>cc:BasicAmountType <i>(Required)</i> Billing amount for each billing cycle during this payment period. This amount does not include shipping and tax amounts.</p> <p>NOTE: All amounts in the CreateRecurringPaymentsProfile request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |

Recurring Payments and Reference Transactions API Operations

UpdateRecurringPaymentsProfile API

| Field | Description |
|--------------------------------|--|
| TrialPeriod.BillingPeriod | <p>ns:BillingPeriodType</p> <p>Unit for billing during this subscription period; required if you specify an optional trial period.</p> <p>One of the following values:</p> <ul style="list-style-type: none">• Day• Week• SemiMonth• Month• Year <p>For SemiMonth, billing is done on the 1st and 15th of each month.</p> <p>NOTE: The combination of BillingPeriod and BillingFrequency cannot exceed one year.</p> |
| TrialPeriod.BillingFrequency | <p>xs:int</p> <p>Number of billing periods that make up one billing cycle; required if you specify an optional trial period.</p> <p>The combination of billing frequency and billing period must be less than or equal to one year. For example, if the billing cycle is Month, the maximum value for billing frequency is 12. Similarly, if the billing cycle is Week, the maximum value for billing frequency is 52.</p> <p>NOTE: If the billing period is SemiMonth, the billing frequency must be 1.</p> |
| TrialPeriod.TotalBillingCycles | <p>xs:int</p> <p>(Optional) The number of billing cycles for trial payment period.</p> |
| TrialPeriod.Amount | <p>cc:BasicAmountType</p> <p>Billing amount for each billing cycle during this payment period; required if you specify an optional trial period. This amount does not include shipping and tax amounts.</p> <p>NOTE: All amounts in the CreateRecurringPaymentsProfile request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |
| ShippingAmount | <p>cc:BasicAmountType</p> <p>(Optional) Shipping amount for each billing cycle during this payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |

| Field | Description |
|-----------|---|
| TaxAmount | <p>cc:BasicAmountType</p> <p>(Optional) Tax amount for each billing cycle during this payment period.</p> <p>NOTE: All amounts in the request must have the same currency.</p> <p>Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD.</p> |

Recurring Payments and Reference Transactions API Operations

UpdateRecurringPaymentsProfile API

CreditCardDetailsType Fields

| Field | Description |
|------------------|--|
| CreditCardType | ebl:CreditCardType <i>(Required)</i> Type of credit card. Character length and limitations: Up to ten single-byte alphabetic characters. Allowable values: <ul style="list-style-type: none">• Visa• MasterCard• Discover• Amex• Maestro: See note.• Solo: See note. For Canada, only MasterCard and Visa are allowable; Interac debit cards are not supported. NOTE: If the credit card type is Maestro or Solo, the currencyId must be GBP. In addition, either StartMonth and StartYear or IssueNumber must be specified. |
| CreditCardNumber | xs:string <i>(Required)</i> Credit card number. Character length and limitations: numeric characters only. No spaces or punctuation. Must conform with modulo and length required by each credit card type. |
| ExpMonth | xs:int <i>(Required)</i> Credit card expiration month. Character length and limitations: Two single-byte numeric characters, including leading zero. |
| ExpYear | xs:int <i>(Required)</i> Credit card expiration year. Character length and limitations: Four single-byte numeric characters. |
| CVV2 | xs:string Card Verification Value, version 2. Your Merchant Account settings determine whether this field is required. Character length for Visa, MasterCard, and Discover: exactly three digits. Character length for American Express: exactly four digits. To comply with credit card processing regulations, you must not store this value after a transaction has been completed. |
| CardOwner | ns:PayerInfoType <i>(Required)</i> Details about the owner of the credit card. |
| StartMonth | xs:int <i>(Optional)</i> Month that Maestro or Solo card was issued. Character length: Two-digit, zero-filled if necessary. |

| Field | Description |
|-------------|---|
| StartYear | xs:int <i>(Optional)</i> Year that Maestro or Solo card was issued. Character length: Four digits. |
| IssueNumber | xs:int <i>(Optional)</i> Issue number of Maestro or Solo card. Character length: two numeric digits maximum. |

PayerInfoType Fields

| Field | Description |
|-----------|---|
| Payer | ns:EmailAddressType <i>(Optional)</i> Email address of payer. Character length and limitations: 127 single-byte characters. |
| FirstName | ns:PersonNameType <i>(Required)</i> Payer's first name. Character length and limitations: 25 single-byte characters. |
| LastName | ns:PersonNameType <i>(Required)</i> Payer's last name. Character length and limitations: 25 single-byte characters. |
| Address | ns:AddressType <i>(Required)</i> Payer's billing address information. |

UpdateRecurringPaymentsProfile Response**UpdateRecurringPaymentsProfile Response Fields**

| Field | Description |
|-----------|--|
| ProfileID | xs:string Recurring payments profile ID returned in the CreateRecurringPaymentsProfile response. An error is returned if the profile specified in the BillOutstandingAmount request has a status of canceled or expired. |

SetCustomerBillingAgreement API

Initiates the creation of a billing agreement.

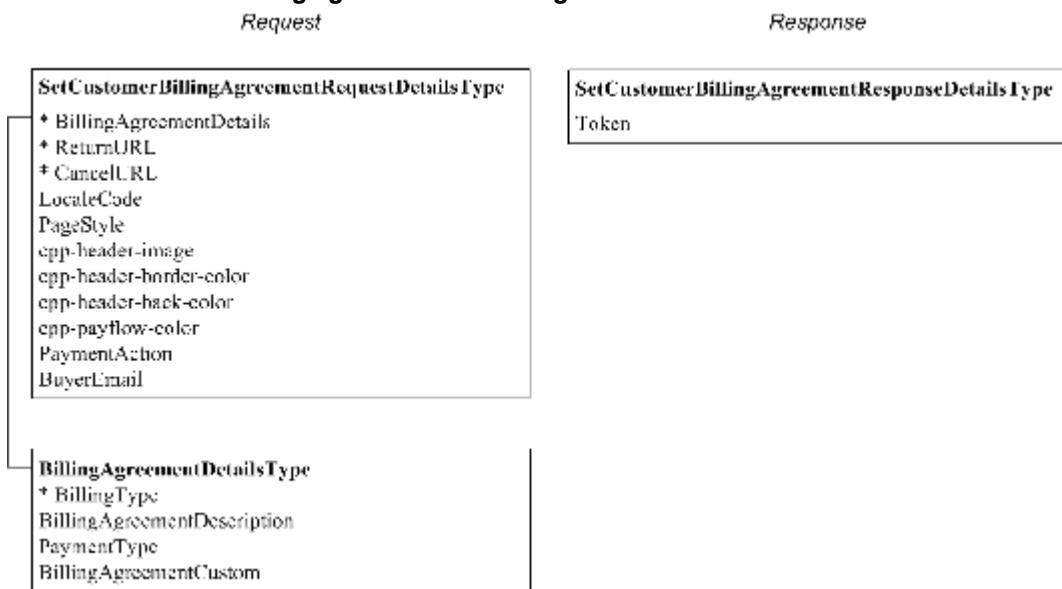
Recurring Payments and Reference Transactions API Operations

SetCustomerBillingAgreement API

NOTE: If you are using Express Checkout with version 54.0 or later of the API, do not use the SetCustomerBillingAgreement API operation to set up a billing agreement. Use the SetExpressCheckout API operation instead.

- “[SetCustomerBillingAgreement Request](#)” on page 150
- “[SetCustomerBillingAgreement Response](#)” on page 153

SetCustomerBillingAgreement API Diagram



SetCustomerBillingAgreement Request

- [SetCustomerBillingAgreement Request Fields](#)
- “[BillingAgreementDetails Fields](#)” on page 153

SetCustomerBillingAgreement Request Fields

| Field | Description |
|--------------------------|--|
| BillingAgreement Details | ns:BillingAgreementDetailsType <i>(Required)</i> |
| ReturnURL | xs:string <i>(Required)</i> URL to which the customer's browser is returned after choosing to pay with PayPal. NOTE: PayPal recommends that the value be the final review page on which the customer confirms the billing agreement. Character length and limitations: no limit. |
| CancelURL | xs:string <i>(Required)</i> URL to which the customer is returned if he does not approve the use of PayPal to pay you. NOTE: PayPal recommends that the value be the original page on which the customer chose to pay with PayPal or establish a billing agreement. Character length and limitations: no limit. |
| LocaleCode | xs:string <i>(Optional)</i> Locale of pages displayed by PayPal during checkout. Character length and limitations: Any two-character country code. The following two-character country codes are supported by PayPal: <ul style="list-style-type: none"> • AU • DE • FR • IT • GB • ES • US Any other value will default to US. See " Country Codes " on page 257. |
| PageStyle | xs:string <i>(Optional)</i> Sets the Custom Payment Page Style for payment pages associated with this button/link. This value corresponds to the HTML variable <code>page_style</code> for customizing payment pages. The value is the same as the Page Style Name you chose when adding or editing the page style from the Profile subtab of the My Account tab of your PayPal account. Character length and limitations: 30 single-byte alphabetic characters. |
| cpp-header-image | xs:string <i>(Optional)</i> A URL for the image you want to appear at the top left of the payment page. The image has a maximum size of 750 pixels wide by 90 pixels high. PayPal recommends that you provide an image that is stored on a secure (<code>https</code>) server. Character length and limitations: 127 single-byte alphanumeric characters. |

Recurring Payments and Reference Transactions API Operations

SetCustomerBillingAgreement API

| Field | Description |
|-----------------------|---|
| cpp-header-border | <p>xs:string</p> <p>(Optional) Sets the border color around the header of the payment page. The border is a 2-pixel perimeter around the header space, which is 750 pixels wide by 90 pixels high.</p> <p>Character length and limitations: Six character HTML hexadecimal color code in ASCII.</p> |
| cpp-header-back-color | <p>xs:string</p> <p>(Optional) Sets the background color for the header of the payment page. By default, the color is white.</p> <p>Character length and limitation: Six character HTML hexadecimal color code in ASCII.</p> |
| cpp-payflow-color | <p>xs:string</p> <p>(Optional) Sets the background color for the payment page.</p> <p>Character length and limitation: Six character HTML hexadecimal color code in ASCII.</p> |
| BuyerEmail | <p>ns:EmailAddressType</p> <p>(Optional) Email address of the buyer as entered during checkout. PayPal uses this value to pre-fill the PayPal membership sign-up portion of the PayPal login page.</p> <p>Character length and limit: 127 single-byte alphanumeric characters.</p> |

BillingAgreementDetails Fields

| Field | Description |
|-----------------------------|---|
| BillingType | <p>ns:BillingCodeType <i>(Required)</i> Type of billing agreement.</p> <p>For recurring payments, this field must be set to RecurringPayments. In this case, you can specify up to ten billing agreements.</p> <p>NOTE: Other defined values are not valid.</p> |
| BillingAgreementDescription | <p>xs:string</p> <p>Description of goods or services associated with the billing agreement, which is required for each recurring payment billing agreement.</p> <p>PayPal recommends that the description contain a brief summary of the billing agreement terms and conditions. For example, customer will be billed at “9.99 per month for 2 years”.</p> <p>Character length and limitations: 127 single-byte alphanumeric bytes.</p> |
| PaymentType | <p>ns:MerchantPullPaymentCodeType <i>(Optional)</i> Specifies type of PayPal payment you require for the billing agreement.</p> <ul style="list-style-type: none"> • Any • InstantOnly <p>NOTE: For recurring payments, this field is ignored.</p> |
| BillingAgreementCustom | <p>xs:string <i>(Optional)</i> Custom annotation field for your own use.</p> <p>NOTE: For recurring payments, this field is ignored.</p> <p>Character length and limitations: 256 single-byte alphanumeric bytes.</p> |

SetCustomerBillingAgreement Response**SetCustomerBillingAgreement Response Fields**

| Field | Description |
|--------------|--|
| Token | <p>xs:string</p> <p>A unique time-stamped token, which uniquely identifies this transaction for subsequent API calls.</p> <p>NOTE: The token expires after three hours.</p> <p>Character length and limitations: 20 single-byte characters.</p> |

GetBillingAgreementCustomerDetails API

Obtain information about a billing agreement’s PayPal account holder.

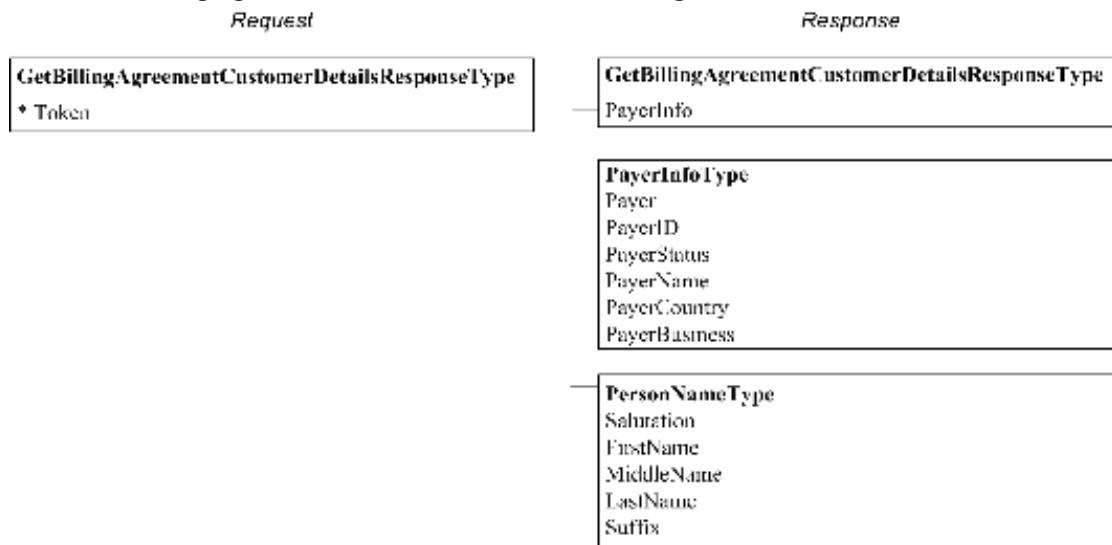
- “[GetBillingAgreementCustomerDetails Request](#)” on page 154

Recurring Payments and Reference Transactions API Operations

GetBillingAgreementCustomerDetails API

- “[GetBillingAgreementCustomerDetails Response](#)” on page 154

GetBillingAgreementCustomerDetails API Diagram



GetBillingAgreementCustomerDetails Request

GetBillingAgreementCustomerDetails Request Fields

| Field | Description |
|-------|--|
| Token | <p>xs:string</p> <p>(Required) The time-stamped token returned in the SetCustomerBillingAgreement response.</p> <p>NOTE: The token expires after three hours.</p> <p>Character length and limitations: 20 single-byte characters.</p> |

GetBillingAgreementCustomerDetails Response

- [GetBillingAgreementCustomerDetails Response](#)
- [Payer Information Fields](#)
- [Payer Name Fields](#)
- [Ship To Address Fields](#)

GetBillingAgreementCustomerDetails Response Fields

| Field | Description |
|--------------|--------------------|
| PayerInfo | ns:PayerInfoType |

PayerInfoType Fields

| Field | Description |
|---------------|--|
| Payer | ebl:EmailAddressType Email address of payer. Character length and limitations: 127 single-byte characters. |
| PayerID | ebl:UserIDType Unique PayPal customer account identification number. Character length and limitations: 13 single-byte alphanumeric characters. |
| PayerStatus | ebl:PayPalUserStatusCodeType Status of payer. Valid values are: <ul style="list-style-type: none">• verified• unverified Character length and limitations: 10 single-byte alphabetic characters. |
| PayerName | ebl:PersonNameType First and last name of payer. |
| PayerCountry | ebl:CountryCodeType Payer's country of residence in the form of ISO standard 3166 two-character country codes. Character length and limitations: Two single-byte characters. |
| PayerBusiness | xs:string Payer's business name. Character length and limitations: 127 single-byte characters. |
| Address | ns:AddressType Payer's shipping address information. |

PayerName Fields

| Field | Description |
|--------------|---|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters. |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |

Recurring Payments and Reference Transactions API Operations

GetBillingAgreementCustomerDetails API

| Field | Description |
|------------|--|
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters. |
| LastName | ebl:NameType Payer's last name Character length and limitations: 25 single-byte characters. |
| Suffix | ebl:SuffixType Payer's suffix Character length and limitations: 12 single-byte characters. |

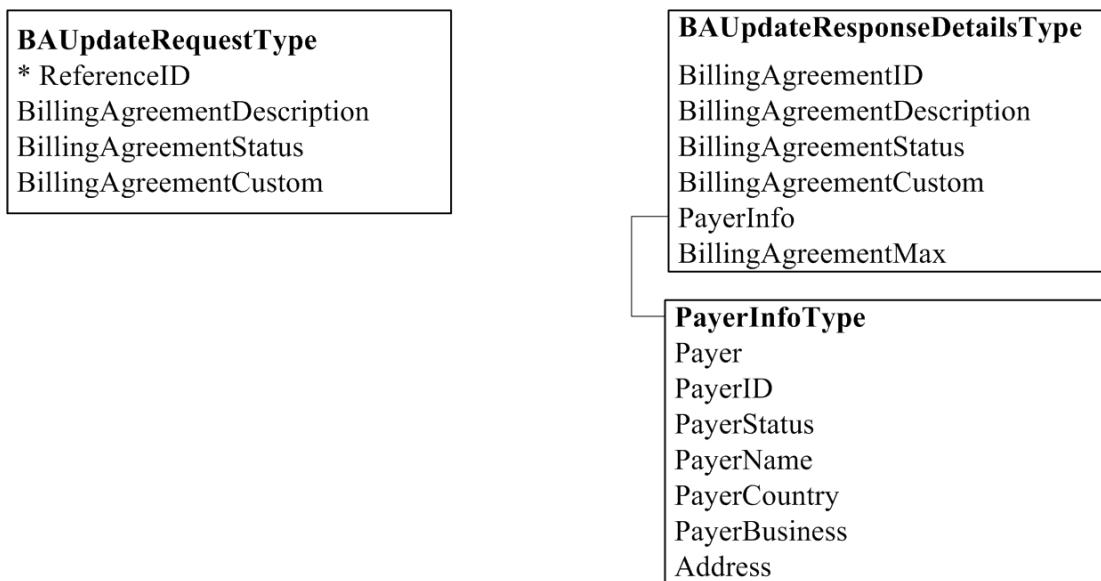
AddressType Fields

| Field | Description |
|-----------------|--|
| AddressStatus | ebl:AddressStatusTypeCode Status of street address on file with PayPal. Valid values are: <ul style="list-style-type: none">• none• Confirmed• Unconfirmed |
| Name | xs:string Person's name associated with this address. Character length and limitations: 32 single-byte characters. |
| Street1 | xs:string First street address. Character length and limitations: 100 single-byte characters. |
| Street2 | xs:string Second street address. Character length and limitations: 100 single-byte characters. |
| CityName | xs:string Name of city. Character length and limitations: 40 single-byte characters. |
| StateOrProvince | xs:string State or province. Character length and limitations: 40 single-byte characters. Required for U.S. addresses only. |
| PostalCode | xs:string U.S. ZIP code or other country-specific postal code. Character length and limitations: 20 single-byte characters. |
| Country | ebl:CountryCode Country code. Character limit: Two single-byte characters. |

BAUpdate API

Update or delete a billing agreement.

- “[BAUpdate Request](#)” on page 158
- “[BAUpdateResponseDetails Response](#)” on page 159

BAUpdate API Diagram*Request**Response***BAUpdate Request****UpdateBillingAgreementRequest Fields**

| Field | Description |
|-----------------------------|--|
| ReferenceID | xs:string <i>(Required)</i> An ID, such as a billing agreement ID or a reference transaction ID that is associated with a billing agreement. |
| BillingAgreementStatus | eb1:MerchantPullStatusCodeType <i>(Optional)</i> Type of billing agreement. The current status of the billing agreement, which is one of the following values: <ul style="list-style-type: none"> • Active - the billing agreement is currently active • Canceled - the billing agreement has been cancelled |
| BillingAgreementDescription | xs:string <i>(Optional)</i> Description of goods or services associated with the billing agreement, which is required for each recurring payment billing agreement. PayPal recommends that the description contain a brief summary of the billing agreement terms and conditions. For example, customer will be billed at “9.99 per month for 2 years”. Character length and limitations: 127 single-byte alphanumeric bytes. |

| Field | Description |
|------------------|---|
| BillingAgreement | xs:string |
| Custom | <p>(Optional) Custom annotation field for your own use.</p> <p>NOTE: For recurring payments, this field is ignored.</p> <p>Character length and limitations: 256 single-byte alphanumeric bytes.</p> |

BAUpdateResponseDetails Response

- [GetBillingAgreementCustomerDetails Response Fields](#)
- [PayerInfoType Fields](#)
- [PayerName Fields](#)
- [AddressType Fields](#)

Recurring Payments and Reference Transactions API Operations

BAUpdate API

BAUpdateResponseDetails Response Fields

| Field | Description |
|-----------------------------|---|
| BillingType | ns:BillingCodeType Type of billing agreement. |
| BillingAgreementDescription | xs:string Description of goods or services associated with the billing agreement, which is required for each recurring payment billing agreement. Character length and limitations: 127 single-byte alphanumeric bytes. |
| BillingAgreementCustom | xs:string Custom annotation field for your own use. Character length and limitations: 256 single-byte alphanumeric bytes. |
| BillingAgreementStatus | ebl:MerchantPullStatusCodeType <i>(Optional)</i> Type of billing agreement. The current status of the billing agreement, which is one of the following values: <ul style="list-style-type: none">• Active - the billing agreement is currently active• Canceled - the billing agreement has been cancelled |
| BillingAgreementMax | cc:BasicAmountType Maximum amount for this billing agreement. NOTE: This field only has a value if the customer signed up for PayPal using Preapproved Payments; it is included for backwards compatibility with legacy systems. |
| PayerInfo | ns:PayerInfoType |

PayerInfoType Fields

| Field | Description |
|-------------|---|
| Payer | ebl:EmailAddressType Email address of payer. Character length and limitations: 127 single-byte characters. |
| PayerID | ebl:UserIDType Unique PayPal customer account identification number. Character length and limitations: 13 single-byte alphanumeric characters. |
| PayerStatus | ebl:PayPalUserStatusCodeType Status of payer. Valid values are: <ul style="list-style-type: none">• verified• unverified Character length and limitations: 10 single-byte alphabetic characters. |
| PayerName | ebl:PersonNameType First and last name of payer. |

| Field | Description |
|---------------|--|
| PayerCountry | ebl:CountryCodeType Payer's country of residence in the form of ISO standard 3166 two-character country codes. Character length and limitations: Two single-byte characters. |
| PayerBusiness | xs:string Payer's business name. Character length and limitations: 127 single-byte characters. |
| Address | ns:AddressType Payer's shipping address information. |

Recurring Payments and Reference Transactions API Operations

BAUpdate API

PayerName Fields

| Field | Description |
|------------|---|
| Salutation | xs:string Payer's salutation. Character length and limitations: 20 single-byte characters. |
| FirstName | ebl:PersonNameType Payer's first name. Character length and limitations: 25 single-byte characters. |
| MiddleName | ebl:NameUser Payer's middle name. Character length and limitations: 25 single-byte characters. |
| LastName | ebl:NameType Payer's last name Character length and limitations: 25 single-byte characters. |
| Suffix | ebl:SuffixType Payer's suffix Character length and limitations: 12 single-byte characters. |

AddressType Fields

| Field | Description |
|---------------|--|
| AddressStatus | ebl:AddressStatusTypeCode <i>(Required)</i> Status of street address on file with PayPal. Valid values are: <ul style="list-style-type: none">• none• Confirmed• Unconfirmed |
| Name | xs:string <i>(Required)</i> Person's name associated with this address. Character length and limitations: 32 single-byte characters. |
| Street1 | xs:string <i>(Required)</i> First street address. Character length and limitations: 100 single-byte characters. |
| Street2 | xs:string <i>(Optional)</i> Second street address. Character length and limitations: 100 single-byte characters. |
| CityName | xs:string <i>(Required)</i> Name of city. Character length and limitations: 40 single-byte characters. |

| Field | Description |
|-----------------|--|
| StateOrProvince | xs:string <i>(Optional)</i> State or province. Character length and limitations: 40 single-byte characters. Required for U.S. addresses only. |
| PostalCode | xs:string <i>(Required)</i> U.S. ZIP code or other country-specific postal code. Character length and limitations: 20 single-byte characters. |
| Country | ebl:CountryCode <i>(Required)</i> Country code. Character limit: Two single-byte characters. |

DoReferenceTransaction API

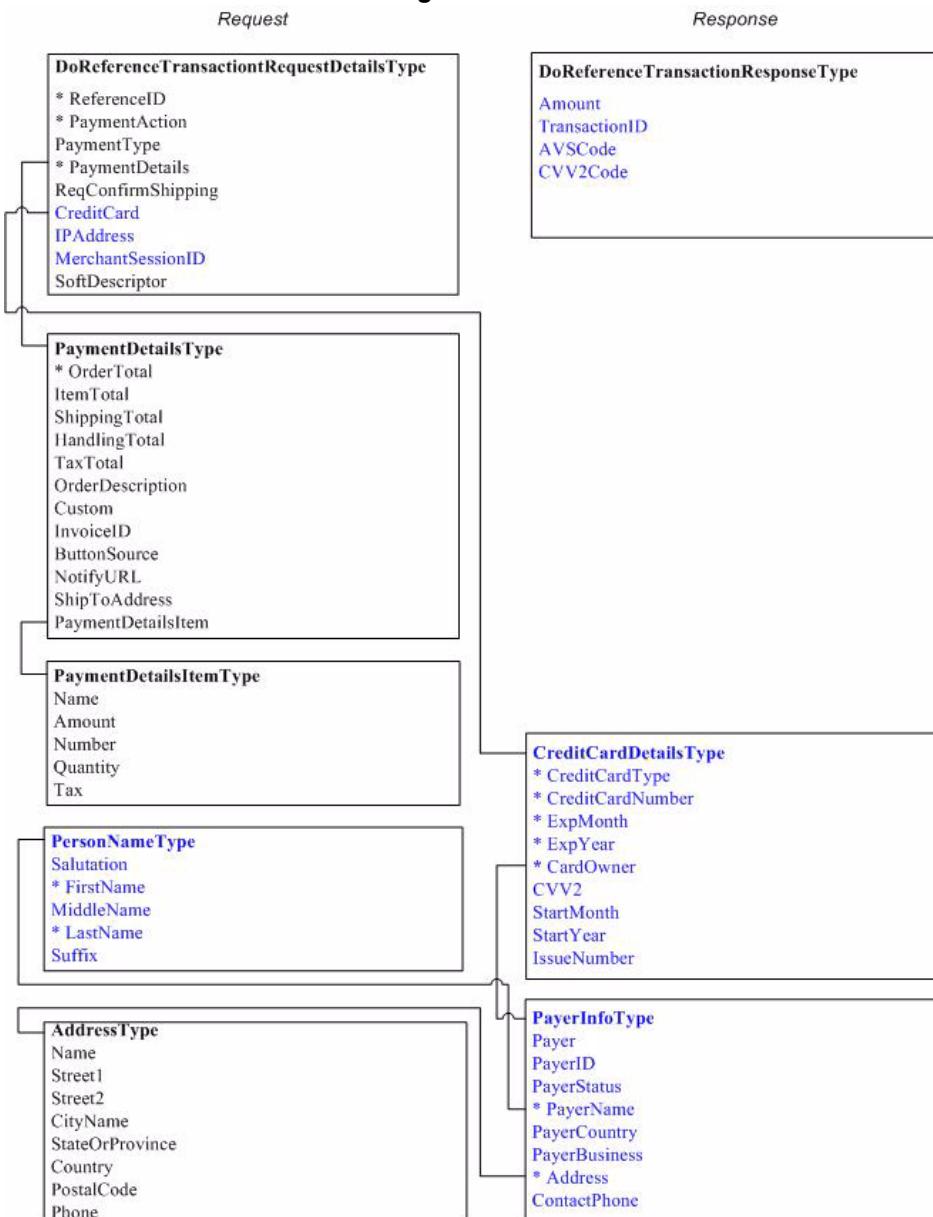
Process a payment from a buyer's account, which is identified by a previous transaction.

- “DoReferenceTransaction Request” on page 164
- “DoReferenceTransaction Response” on page 174

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

DoReferenceTransaction API Diagram



DoReferenceTransaction Request

- DoReferenceTransaction Request Fields
- Ship To Address Fields
- Payment Details Type Fields
- Payment Details Item Type Fields
- eBay Item Payment Details Item Type Fields

- Credit Card Fields
- Payer Information Fields

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

DoReferenceTransaction Request Fields

| Field | Description |
|-------------------|---|
| ReferenceID | xs:string <i>(Required)</i> A transaction ID from a previous purchase, such as a credit card charge using the DoDirectPayment API, or a billing agreement ID. |
| PaymentAction | xs:string <i>(Optional)</i> How you want to obtain payment: <ul style="list-style-type: none">• Authorization indicates that this payment is a basic authorization subject to settlement with PayPal Authorization & Capture.• Sale indicates that this is a final sale for which you are requesting payment. |
| PaymentDetails | ebl:PaymentDetailsType <i>(Required)</i> Information about the payment. See |
| MerchantSessionId | xs:string <i>(Optional)</i> Your customer session identification token. NOTE: PayPal records this optional session identification token as an additional means to detect possible fraud. Character length and limitations: 64 single-byte numeric characters. |
| ReturnFMFDetails | xs:boolean <i>(Optional)</i> Flag to indicate whether you want the results returned by Fraud Management Filters. By default, you do not receive this information. <ul style="list-style-type: none">• 0 - do not receive FMF details (default)• 1 - receive FMF details |

| Field | Description |
|----------------|---|
| SoftDescriptor | <p>xs:string</p> <p>(Optional) The soft descriptor is a per transaction description of the payment that is passed to the consumer's credit card statement.</p> <p>If a value for the soft descriptor field is provided, the full descriptor displayed on the customer's statement has the following format:</p> <pre><PP * PAYPAL *><Merchant descriptor as set in the Payment Receiving Preferences><1 space><soft descriptor></pre> <p>The soft descriptor can contain only the following characters:</p> <ul style="list-style-type: none"> • Alphanumeric characters • - (dash) • * (asterisk) • . (period) • {space} <p>If you use any other characters (such as ","), an error code is returned. The soft descriptor does not include the phone number, which can be toggled between the merchant's customer service number and PayPal's customer service number. The maximum length of the total soft descriptor is 22 characters. Of this, either 4 or 8 characters are used by the PayPal prefix shown in the data format. Thus, the maximum length of the soft descriptor passed in the API request is:</p> $22 - \text{len}(<\text{PP * PAYPAL *}>) - \text{len}(<\text{Descriptor set in Payment Receiving Preferences}> + 1)$ <p>For example, assume the following conditions:</p> <ul style="list-style-type: none"> • The PayPal prefix toggle is set to PAYPAL * in PayPal's admin tools. • The merchant descriptor set in the Payment Receiving Preferences is set to EBAY. • The soft descriptor is passed in as JanesFlowerGifts LLC <p>The resulting descriptor string on the credit card would be:</p> <p>PAYPAL *EBAY JanesFlow</p> |

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

AddressType Fields

| Field | Description |
|-----------------|---|
| Name | <code>xs:string</code> Person's name associated with this address. This field is required for shipping addresses but is optional for credit card billing addresses. Character length and limitations: 32 single-byte characters. |
| Street1 | <code>xs:string</code> First street address. This field is required if the shipping address is used. Character length and limitations: 100 single-byte characters. |
| Street2 | <code>xs:string</code> <i>(Optional)</i> Second street address. Character length and limitations: 100 single-byte characters. |
| CityName | <code>xs:string</code> Name of city. This field is required if the shipping address is used. Character length and limitations: 40 single-byte characters. |
| StateOrProvince | <code>xs:string</code> State or province. This field is required if the shipping address is used. Character length and limitations: 40 single-byte characters. |
| PostalCode | <code>xs:string</code> U.S. ZIP code or other country-specific postal code. This field is required if a U.S. shipping address is used and may be required for other countries. Character length and limitations: 20 single-byte characters. |
| Country | <code>ebl:CountryCodeType</code> Country code. This field is required if the shipping address is used. Character limit: 2 single-byte characters. |
| Phone | <code>xs:string</code> <i>(Optional)</i> Phone number. Character length and limit: 20 single-byte characters. |

PaymentDetailsType Fields

| Field | Description |
|---------------|--|
| OrderTotal | <p>ebl:BasicAmountType</p> <p>(Required) The total cost of the transaction to the customer. If shipping cost and tax charges are known, include them in this value; if not, this value should be the current sub-total of the order.</p> <p>If the transaction includes one or more one-time purchases, this field must be equal to the sum of the purchases.</p> <p>Set this field to 0 if the transaction does not include a one-time purchase; for example, when you set up a billing agreement for a recurring payment that is not immediately charged.</p> <p>Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| ItemTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Sum of cost of all items in this order.</p> <p>Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| ShippingTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Total shipping costs for this order.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| HandlingTotal | <p>ebl:BasicAmountType</p> <p>(Optional) Total handling costs for this order.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

| Field | Description |
|--------------------|--|
| TaxTotal | ebl:BasicAmountType <i>(Optional)</i> Sum of tax for all items in this order. NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD. NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies. |
| OrderDescription | xs:string <i>(Optional)</i> Description of items the customer is purchasing. Character length and limitations: 127 single-byte alphanumeric characters |
| Custom | xs:string <i>(Optional)</i> A free-form field for your own use. Character length and limitations: 256 single-byte alphanumeric characters |
| InvoiceID | xs:string <i>(Optional)</i> Your own invoice or tracking number. Character length and limitations: 127 single-byte alphanumeric characters |
| ButtonSource | xs:string <i>(Optional)</i> An identification code for use by third-party applications to identify transactions. Character length and limitations: 32 single-byte alphanumeric characters |
| NotifyURL | xs:string <i>(Optional)</i> Your URL for receiving Instant Payment Notification (IPN) about this transaction. NOTE: If you do not specify this value in the request, the notification URL from your Merchant Profile is used, if one exists. Character length and limitations: 2,048 single-byte alphanumeric characters |
| ShipToAddress | ns:AddressType <i>(Optional)</i> Address the order will be shipped to. |
| PaymentDetailsItem | ebl:PaymentDetailsItemType <i>(Optional)</i> Details about each individual item included in the order. |

PaymentDetailsItemType Fields

| Field | Description |
|----------------------------|---|
| Name | <p>xs:string <i>(Optional)</i> Item name. Character length and limitations: 127 single-byte characters</p> |
| Amount | <p>ebl:BasicAmountType <i>(Optional)</i> Cost of item.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| Number | <p>xs:string <i>(Optional)</i> Item number. Character length and limitations: 127 single-byte characters</p> |
| Quantity | <p>xs:integer <i>(Optional)</i> Item quantity. Character length and limitations: Any positive integer</p> |
| Tax | <p>ebl:BasicAmountType <i>(Optional)</i> Item sales tax.</p> <p>NOTE: Character length and limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). Equivalent to nine characters maximum for USD.</p> <p>NOTE: You must set the currencyID attribute to one of the three-character currency codes for any of the supported PayPal currencies.</p> |
| EbayItemPaymentDetailsItem | <p>eBl:ebayItemPaymentDetailsItemType <i>(Optional)</i> Information relating to an auction sale on eBay.</p> |

EbayItemPaymentDetailsItemType Fields

| Field | Description |
|----------------------|--|
| ItemNumber | <p>xs:string <i>(Optional)</i> Auction item number. Character length: 765 single-byte characters.</p> |
| AuctionTransactionId | <p>xs:string <i>(Optional)</i> Auction transaction identification number. Character length: 255 single-byte characters</p> |

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

| Field | Description |
|---------|--|
| OrderID | <code>xs:string</code> <i>(Optional)</i> Auction order identification number. Character length: 64 single-byte characters. |

CreditCardDetailsType Fields

| Field | Description |
|------------------|---|
| CreditCardType | <p>eb1:CreditCardType</p> <p><i>(Required)</i> Type of credit card.</p> <p>Character length and limitations: Up to ten single-byte alphabetic characters.</p> <p>Allowable values:</p> <ul style="list-style-type: none"> • Visa • MasterCard • Discover • Amex • Maestro: See note. • Solo: See note. <p>For Canada, only MasterCard and Visa are allowable; Interac debit cards are not supported.</p> <p>NOTE: If the credit card type is Maestro or Solo, the currencyId must be GBP. In addition, either StartMonth and StartYear or IssueNumber must be specified.</p> |
| CreditCardNumber | <p>xs:string</p> <p><i>(Required)</i> Credit card number.</p> <p>Character length and limitations: numeric characters only. No spaces or punctuation. Must conform with modulo and length required by each credit card type.</p> |
| ExpMonth | <p>xs:int</p> <p><i>(Required)</i> Credit card expiration month.</p> <p>Character length and limitations: Two single-byte numeric characters, including leading zero.</p> |
| ExpYear | <p>xs:int</p> <p><i>(Required)</i> Credit card expiration year.</p> <p>Character length and limitations: Four single-byte numeric characters.</p> |
| CVV2 | <p>xs:string</p> <p>Card Verification Value, version 2. Your Merchant Account settings determine whether this field is required. Character length for Visa, MasterCard, and Discover: exactly three digits. Character length for American Express: exactly four digits. To comply with credit card processing regulations, you must not store this value after a transaction has been completed.</p> |
| CardOwner | <p>ns:PayerInfoType</p> <p><i>(Required)</i> Details about the owner of the credit card.</p> |
| StartMonth | <p>xs:int</p> <p><i>(Optional)</i> Month that Maestro or Solo card was issued.</p> <p>Character length: Two-digit, zero-filled if necessary.</p> |

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

| Field | Description |
|-------------|---|
| StartYear | xs:int <i>(Optional)</i> Year that Maestro or Solo card was issued. Character length: Four digits. |
| IssueNumber | xs:int <i>(Optional)</i> Issue number of Maestro or Solo card. Character length: two numeric digits maximum. |

PayerInfoType Fields

| Field | Description |
|-----------|---|
| Payer | ns:EmailAddressType <i>(Optional)</i> Email address of payer. Character length and limitations: 127 single-byte characters. |
| FirstName | ns:PersonNameType <i>(Required)</i> Payer's first name. Character length and limitations: 25 single-byte characters. |
| LastName | ns:PersonNameType <i>(Required)</i> Payer's last name. Character length and limitations: 25 single-byte characters. |
| Address | ns:AddressType <i>(Required)</i> Payer's billing address information. |

DoReferenceTransaction Response

- [DoReferenceTransaction Response Fields](#)
- [Payment Information Fields](#)
- [Fraud Management Filter Fields](#)
- [Risk Filter List Fields](#)

DoReferenceTransaction Response Fields for Express Checkout

| Field | Description |
|--------------------|--|
| PaymentInfo | ns:PaymentInfoType |
| AVSCode | <p>xs:string</p> <p>Address Verification System response code. See “AVS and CVV2 Response Codes” on page 273 for possible values.</p> <p>Character limit: One single-byte alphanumeric character</p> |
| CVV2Code | <p>xs:string</p> <p>Result of the CVV2 check by PayPal.</p> |
| BillingAgreementID | <p>xs:string</p> <p>Returned if the value of ReferenceID in the request is a billing agreement identification number.</p> |
| FMFDetails | <p>ebl:FMFDetailsType</p> <p>Fraud filter details.</p> |

PaymentInfoType Fields

| Field | Description |
|-----------------|---|
| TransactionID | <p>xs:string</p> <p>Unique transaction ID of the payment.</p> <p>NOTE: If the PaymentAction of the request was Authorization or Order, this value is your AuthorizationID for use with the Authorization & Capture APIs.</p> <p>Character length and limitations:19 single-byte characters</p> |
| TransactionType | <p>ns:PaymentTransactionCodeType</p> <p>The type of transaction</p> <p>Character length and limitations:15 single-byte characters</p> <p>Valid values:</p> <ul style="list-style-type: none"> • cart • express-checkout |
| PaymentType | <p>ebl:PaymentCodeType</p> <p>Indicates whether the payment is instant or delayed.</p> <p>Character length and limitations: Seven single-byte characters</p> <p>Valid values:</p> <ul style="list-style-type: none"> • none • echeck • instant |
| PaymentDate | <p>xs:dateTime</p> <p>Time/date stamp of payment</p> |

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

| Field | Description |
|---------------|---|
| GrossAmount | ebl:BasicAmountType The final amount charged, including any shipping and taxes from your Merchant Profile. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| FeeAmount | ebl:BasicAmountType PayPal fee amount charged for the transaction Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| SettleAmount | ebl:BasicAmountType Amount deposited in your PayPal account after a currency conversion. |
| TaxAmount | ebl:BasicAmountType Tax charged on the transaction. Character length and limitations: Does not exceed \$10,000 USD in any currency. No currency symbol. Regardless of currency, decimal separator is a period (.), and the optional thousands separator is a comma (,). Equivalent to nine characters maximum for USD. |
| ExchangeRate | xs:string Exchange rate if a currency conversion occurred. Relevant only if you are billing in their non-primary currency. If the customer chooses to pay with a currency other than the non-primary currency, the conversion occurs in the customer's account. Character length and limitations: a decimal that does not exceed 17 characters, including decimal point |
| PaymentStatus | ebl:PendingStatusCodeType Status of the payment: Completed: The payment has been completed, and the funds have been added successfully to your account balance. Pending: The payment is pending. See the PendingReason element for more information. |

| Field | Description |
|---------------|--|
| PendingReason | <p>ebL:PendingStatusCodeType</p> <p>The reason the payment is pending:</p> <ul style="list-style-type: none"> • none: No pending reason. • address: The payment is pending because your customer did not include a confirmed shipping address and your Payment Receiving Preferences is set such that you want to manually accept or deny each of these payments. To change your preference, go to the Preferences section of your Profile. • authorization: The payment is pending because it has been authorized but not settled. You must capture the funds first. • echeck: The payment is pending because it was made by an eCheck that has not yet cleared. • intl: The payment is pending because you hold a non-U.S. account and do not have a withdrawal mechanism. You must manually accept or deny this payment from your Account Overview. • multi-currency: You do not have a balance in the currency sent, and you do not have your Payment Receiving Preferences set to automatically convert and accept this payment. You must manually accept or deny this payment. • order: The payment is pending because it is part of an order that has been authorized but not settled. • paymentreview: The payment is pending while it is being reviewed by PayPal for risk. • unilateral: The payment is pending because it was made to an email address that is not yet registered or confirmed. • verify: The payment is pending because you are not yet verified. You must verify your account before you can accept this payment. • other: The payment is pending for a reason other than those listed above. For more information, contact PayPal customer service. |
| ReasonCode | <p>ebL:ReasonCodeType</p> <p>The reason for a reversal if TransactionType is reversal:</p> <ul style="list-style-type: none"> • none: No reason code • chargeback: A reversal has occurred on this transaction due to a chargeback by your customer. • guarantee: A reversal has occurred on this transaction due to your customer triggering a money-back guarantee. • buyer-complaint: A reversal has occurred on this transaction due to a complaint about the transaction from your customer. • refund: A reversal has occurred on this transaction because you have given the customer a refund. • other: A reversal has occurred on this transaction due to a reason not listed above. |

Recurring Payments and Reference Transactions API Operations

DoReferenceTransaction API

FMFDetailsType Fields

| Field | Description |
|----------------|---|
| AcceptFilters | xs:RiskFilterListType List of filters that recommend acceptance of the payment |
| DenyFilters | xs:RiskFilterListType List of filters that recommend denial of the payment |
| PendingFilters | xs:RiskFilterListType List of filters that caused the payment to become pending. |
| ReportsFilters | xs:RiskFilterListType List of filters that caused the payment to become flagged. |

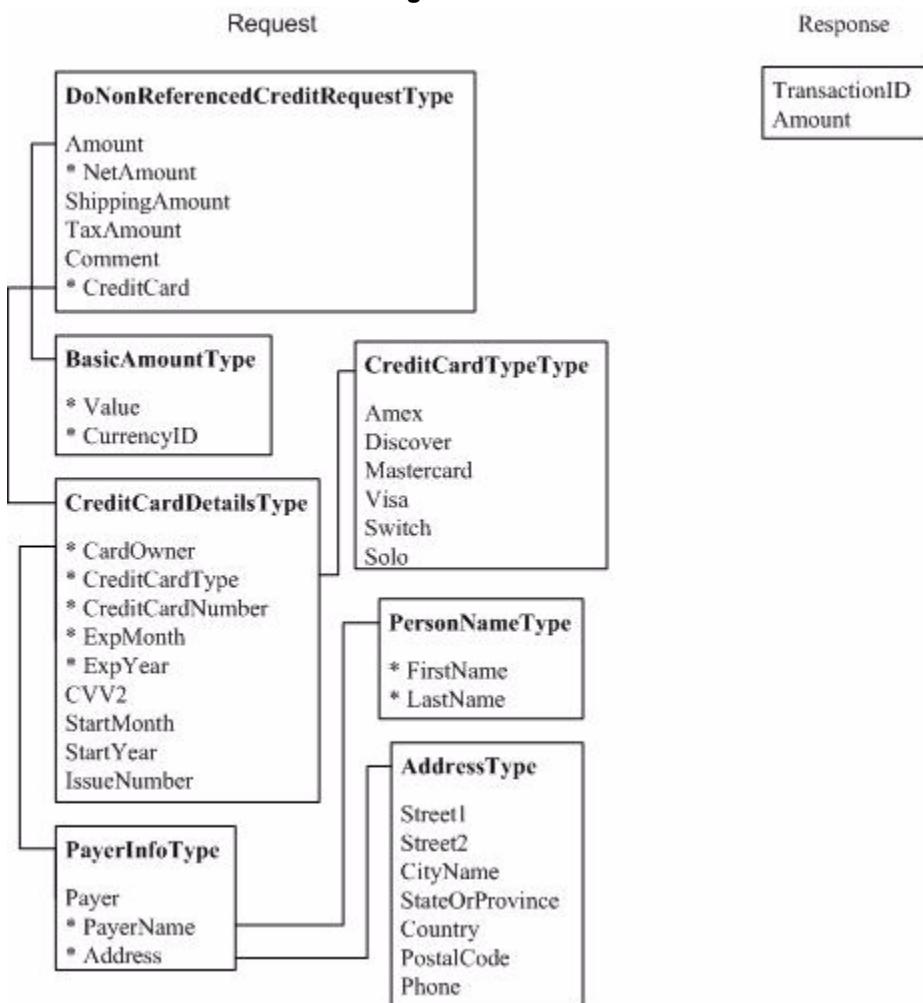
RiskFilterListType Fields

| Field | Description |
|-------------|---|
| ID | xs:int Filter ID, which is one of the following values: <ul style="list-style-type: none">● 1 = AVS No Match● 2 = AVS Partial Match● 3 = AVS Unavailable/Unsupported● 4 = Card Security Code (CSC) Mismatch● 5 = Maximum Transaction Amount● 6 = Unconfirmed Address● 7 = Country Monitor● 8 = Large Order Number● 9 = Billing/Shipping Address Mismatch● 10 = Risky ZIP Code● 11 = Suspected Freight Forwarder Check● 12 = Total Purchase Price Minimum● 13 = IP Address Velocity● 14 = Risky Email Address Domain Check● 15 = Risky Bank Identification Number (BIN) Check● 16 = Risky IP Address Range● 17 = PayPal Fraud Model |
| Name | xs:string Filter name |
| Description | xs:string Filter description |

Issue a credit to a card not referenced by the original transaction.

- “DoNonReferencedCredit Request” on page 179
- “DoNonReferencedCredit Response” on page 183

DoNonReferencedCredit API Diagram



Response

TransactionID
Amount

DoNonReferencedCredit Request

- DoNonReferencedCredit Request Fields

DoNonReferencedCredit API

DoNonReferencedCredit Request

- Credit Card Fields
- Payer Information Fields
- Address Fields

DoNonReferencedCredit Request Fields

| Field | Description |
|----------------|---|
| Amount | <p>ns:BasicAmountType</p> <p><i>(Required)</i> Total of order, including shipping, handling, and tax.</p> <p>Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).</p> <p>Amount = NetAmount + ShippingAmount + TaxAmount</p> |
| NetAmount | <p>ns:BasicAmountType</p> <p><i>(Optional)</i> Total amount of all items in this transaction.</p> <p>Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). The only valid currencies are AUD, CAD, EUR, GBP, JPY, and USD.</p> |
| ShippingAmount | <p>ns:BasicAmountType</p> <p><i>(Optional)</i> Total shipping costs in this transaction.</p> <p>Limitations: Value must be zero or greater and cannot exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). The only valid currencies are AUD, CAD, EUR, GBP, JPY, and USD.</p> |
| TaxAmount | <p>ns:BasicAmountType</p> <p><i>(Optional)</i> Sum of tax for all items in this order.</p> <p>Limitations: The value must be zero or greater and cannot exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).</p> <p>The only valid currencies are AUD, CAD, EUR, GBP, JPY, and USD.</p> |
| Comment | <p>xs:string</p> <p><i>(Optional)</i> Field used by merchant to record why this credit was issued to a buyer. Similar to a “memo” field. Freeform text. String field.</p> |
| CreditCard | <p>eb1:CreditCardDetailsType</p> <p><i>(Required)</i> Information about the credit card to be charged.</p> |

DoNonReferencedCredit API

DoNonReferencedCredit Request

CreditCardDetailsType Fields

| Field | Description |
|------------------|--|
| CreditCardType | ebl:CreditCardType <i>(Required)</i> Type of credit card. Character length and limitations: Up to ten single-byte alphabetic characters. Allowable values: <ul style="list-style-type: none">• Visa• MasterCard• Discover• Amex• Maestro: See note.• Solo: See note. For Canada, only MasterCard and Visa are allowable; Interac debit cards are not supported. NOTE: If the credit card type is Maestro or Solo, the currencyId must be GBP. In addition, either StartMonth and StartYear or IssueNumber must be specified. |
| CreditCardNumber | xs:string <i>(Required)</i> Credit card number. Character length and limitations: numeric characters only. No spaces or punctuation. Must conform with modulo and length required by each credit card type. |
| ExpMonth | xs:int <i>(Required)</i> Credit card expiration month. Character length and limitations: Two single-byte numeric characters, including leading zero. |
| ExpYear | xs:int <i>(Required)</i> Credit card expiration year. Character length and limitations: Four single-byte numeric characters. |
| CVV2 | xs:string Card Verification Value, version 2. Your Merchant Account settings determine whether this field is required. Character length for Visa, MasterCard, and Discover: exactly three digits. Character length for American Express: exactly four digits. To comply with credit card processing regulations, you must not store this value after a transaction has been completed. |
| CardOwner | ns:PayerInfoType <i>(Required)</i> Details about the owner of the credit card. |
| StartMonth | xs:int <i>(Optional)</i> Month that Maestro or Solo card was issued. Character length: Two-digit, zero-filled if necessary. |

| Field | Description |
|-------------|---|
| StartYear | xs:int <i>(Optional)</i> Year that Maestro or Solo card was issued. Character length: Four digits. |
| IssueNumber | xs:int <i>(Optional)</i> Issue number of Maestro or Solo card. Character length: two numeric digits maximum. |

PayerInfoType Fields

| Field | Description |
|-----------|---|
| Payer | ns:EmailAddressType <i>(Optional)</i> Email address of payer. Character length and limitations: 127 single-byte characters. |
| FirstName | ns:PersonNameType <i>(Required)</i> Payer's first name. Character length and limitations: 25 single-byte characters. |
| LastName | ns:PersonNameType <i>(Required)</i> Payer's last name. Character length and limitations: 25 single-byte characters. |
| Address | ns:AddressType <i>(Required)</i> Payer's billing address information. |

DoNonReferencedCredit Response**DoNonReferencedCredit Response Fields**

| Field | Description |
|---------------|---|
| TransactionID | ns:TransactionId Unique identifier of a transaction. Character length and limitations: 17 single-byte alphanumeric characters. |
| Amount | ns:BasicAmountType Total of order, including shipping, handling, and tax. Limitations: Must not exceed \$10,000 USD in any currency. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,). |

Accept or deny a pending transaction held by Fraud Management Filters.

- “[ManagePendingTransactionStatus Request](#)” on page 185
- “[ManagePendingTransactionStatus Response](#)” on page 185

ManagePendingTransactionStatus Request

ManagePendingTransactionStatus Request Fields

| Field | Description |
|---------------|---|
| TransactionID | (Required) The transaction ID of the payment transaction. |
| Action | (Required) The operation you want to perform on the transaction, which is one of the following actions: <ul style="list-style-type: none">• Accept - accepts the payment• Deny - rejects the payment |

ManagePendingTransactionStatus Response

ManagePendingTransactionStatus Response Fields

| Field | Description |
|---------------|--|
| TransactionID | The transaction ID of the transaction whose payment has been denied or accepted. |
| Status | The status of the transaction, which is one of the following values: <ul style="list-style-type: none">• Pending• Processing• Completed• Denied• Reversed• Display Only• Partially Refunded• Created Refunded |

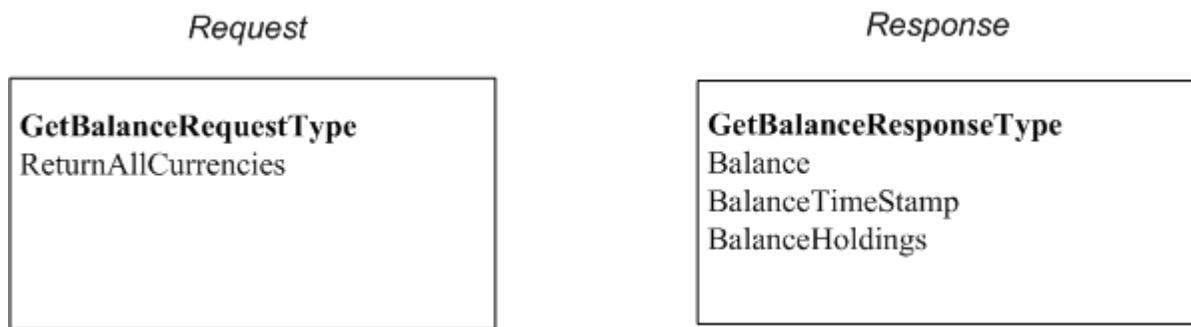
ManagePendingTransactionStatus API

ManagePendingTransactionStatus Response

Obtain the available balance for a PayPal account.

- “GetBalance Request” on page 187
- “GetBalance Response” on page 187

GetBalance API Diagram



GetBalance Request

GetBalance Request Fields

| Field | Description |
|---------------------|---|
| ReturnAllCurrencies | <p>xs:string</p> <p>(Optional) Whether to return all currencies, which is one of the following values:</p> <ul style="list-style-type: none"> • 0 - Return only the balance for the primary currency holding • 1 - Return the balance for each currency holding <p>NOTE: You can only include this field with API VERSION 51 and later; prior versions return only the balance for the primary currency holding.</p> |

GetBalance Response

GetBalance Response Fields

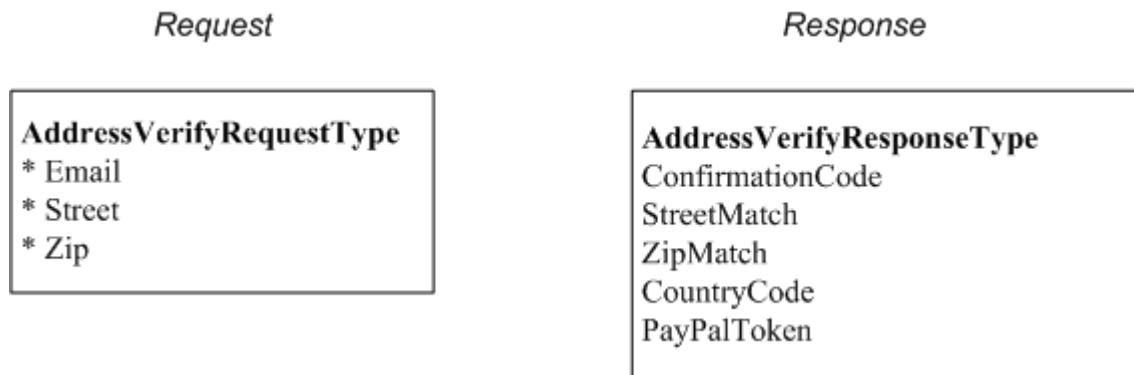
| Field | Description |
|---------|--|
| Balance | <p>ebl:BasicAmountType</p> <p>The available balance and associated currency code for the primary currency holding.</p> |

| Field | Description |
|------------------|--|
| BalanceTimeStamp | <code>xs:dateTime</code> The time that the balance was reported. |
| BalanceHoldings | <code>ebl:BasicAmountType</code> The available balance and associated currency code for each currency held, including the primary currency. The first currency is the primary currency. |

Confirms whether a postal address and postal code match those of the specified PayPal account holder.

- “AddressVerify Request” on page 190
- “AddressVerify Response” on page 190

AddressVerify API Diagram



AddressVerify Request

AddressVerify Request Fields

| Field | Description |
|--------|---|
| Email | ebl:EmailAddressType <i>(Required)</i> Email address of a PayPal member to verify. Maximum string length: 255 single-byte characters Input mask: ?@?.?? |
| Street | xs:string <i>(Required)</i> First line of the billing or shipping postal address to verify. To pass verification, the value of Street must match the first three single-byte characters of a postal address on file for the PayPal member. Street Maximum string length: 35 single-byte characters. Alphanumeric plus - , . ` # \ Whitespace and case of input value are ignored. |
| Zip | xs:string <i>(Required)</i> Postal code to verify. To pass verification, the value of Zip must match the first five single-byte characters of the postal code of the verified postal address for the verified PayPal member. Maximum string length: 16 single-byte characters. Whitespace and case of input value are ignored. |

AddressVerify Response

AddressVerify Response Fields

| Field | Description |
|------------------|--|
| ConfirmationCode | <p>ebl:AddressStatuscodeType</p> <p>None: The request value of the Email element does not match any email address on file at PayPal.</p> <p>Confirmed: If the response value of the StreetMatch element is Matched, the entire postal address is confirmed.</p> <p>Unconfirmed: PayPal responds that the postal address is unconfirmed.</p> <p>NOTE: The values Confirmed and Unconfirmed both indicate that the member email address passed verification.</p> |
| StreetMatch | <p>ebl:MatchStatusCodeType</p> <p>None: The request value of the Email element does not match any email address on file at PayPal. No comparison of other request values was made.</p> <p>Matched: The request value of the Street element matches the first three single-byte characters of a postal address on file for the PayPal member.</p> <p>Unmatched: The request value of the Street element does not match any postal address on file for the PayPal member.</p> |
| ZipMatch | <p>ebl:MatchStatusCodeType</p> <p>None: The request value of the Street element was unmatched. No comparison of the Zip element was made.</p> <p>Matched: The request value of the Zip element matches the ZIP code of the postal address on file for the PayPal member.</p> <p>Unmatched: The request value of the Zip element does not match the ZIP code of the postal address on file for the PayPal member.</p> |
| CountryCode | <p>ebl:CountryCodeType</p> <p>Two-character country code (ISO 3166) on file for the PayPal email address. See "Country Codes" on page 257.</p> |
| PayPalToken | <p>xs:string</p> <p>The token contains encrypted information about the member's email address and postal address. If you pass the value of the token in the HTML variable <code>address_api_token</code> of Buy Now buttons, PayPal prevents the buyer from using an email address or postal address other than those that PayPal verified with this API call.</p> <p>The token is valid for 24 hours.</p> <p>Character length and limitations: 94 single-byte characters.</p> |

A

API Error Codes

The PayPal API can return multiple errors for any operation.

- “General API Errors” on page 194
- “Validation Errors” on page 195
- “Direct Payment API Errors” on page 199
- “SetExpressCheckout API Errors” on page 211
- “GetExpressCheckoutDetails API Errors” on page 220
- “DoExpressCheckoutPayment API Errors” on page 222
- “Authorization and Capture API Errors” on page 227
- “TransactionSearch API Errors” on page 231
- “RefundTransaction API Errors” on page 233
- “Mass Pay API Errors” on page 236
- “Recurring Payments Errors” on page 238
- “SetCustomerBillingAgreement Errors” on page 245
- “GetBillingAgreementCustomerDetails Errors” on page 247
- “CreateBillingAgreement Errors” on page 247
- “UpdateBillingAgreement Errors” on page 249
- “DoReferenceTransaction Errors” on page 249
- “AddressVerify API Errors” on page 256
- “ManagePendingTransactionStatus API Errors” on page 256

General API Errors

General API Errors

| Error Code | Short Message | Long Message | Correcting This Error |
|------------|-------------------------------------|--|---|
| 10002 | Authentication/Authorization Failed | Username/Password is incorrect | This error can be caused by an incorrect API username, an incorrect API password, or an invalid API signature. Make sure that all three of these values are correct. For your security, PayPal does not report exactly which of these three values might be in error. |
| 10002 | Authentication/Authorization Failed | You do not have permission to make this API call | |
| 10002 | Authentication/Authorization Failed | Account is locked or inactive | |
| 10002 | Internal Error | Internal Error | |
| 10002 | Authentication/Authorization Failed | Internal Error | |
| 10002 | Authentication/Authorization Failed | Account is not verified | |
| 10002 | Authentication/Authorization Failed | This call is not defined in the database! | |
| 10002 | Authentication/Authorization Failed | Token is not valid | |
| 10002 | Restricted account | Account is restricted | Your PayPal merchant account has been restricted. Contact your PayPal account manager for resolution. |
| 10002 | Authentication/Authorization Failed | Token is not valid | |
| 10002 | Authentication/Authorization Failed | API access is disabled for this account | |
| 10002 | Authentication/Authorization Failed | Client certificate is disabled | |
| 10002 | Restricted account | Account is restricted | |
| 10006 | Version error | Version is not supported | |
| 10008 | Security error | Security header is not valid | |
| 10101 | This API Temporarily Unavailable | This API is temporarily unavailable. Please try later. | |

Validation Errors

Validation Errors

| Error Code | Short Message | Long Message |
|------------|--------------------|---|
| 81000 | Missing Parameter | Required Parameter Missing : Unable to identify parameter |
| 81001 | Invalid Parameter | A Parameter is Invalid : Unable to identify parameter |
| 81002 | Unspecified Method | Method Specified is not Supported |
| 81003 | Unspecified Method | No Method Specified |
| 81004 | Unspecified Method | No Request Received |
| 81100 | Missing Parameter | OrderTotal (Amt) : Required parameter missing |
| 81101 | Missing Parameter | MaxAmt : Required parameter missing |
| 81102 | Missing Parameter | ReturnURL: Required parameter missing |
| 81103 | Missing Parameter | NotifyURL : Required parameter missing |
| 81104 | Missing Parameter | CancelURL : Required parameter missing |
| 81105 | Missing Parameter | ShipToStreet : Required parameter missing |
| 81106 | Missing Parameter | ShipToStreet2 : Required parameter missing |
| 81107 | Missing Parameter | ShipToCity : Required parameter missing |
| 81108 | Missing Parameter | ShipToState : Required parameter missing |
| 81109 | Missing Parameter | ShipToZip : Required parameter missing |
| 81110 | Missing Parameter | Country : Required parameter missing |
| 81111 | Missing Parameter | ReqConfirmShipping : Required parameter missing |
| 81112 | Missing Parameter | NoShipping : Required parameter missing |
| 81113 | Missing Parameter | AddrOverride : Required parameter missing |
| 81114 | Missing Parameter | LocaleCode : Required parameter missing |
| 81115 | Missing Parameter | PaymentAction : Required parameter missing |
| 81116 | Missing Parameter | Email : Required parameter missing |
| 81117 | Missing Parameter | Token : Required parameter missing |
| 81118 | Missing Parameter | PayerID : Required parameter missing |
| 81119 | Missing Parameter | ItemAmt : Required parameter missing |
| 81120 | Missing Parameter | ShippingAmt : Required parameter missing |
| 81121 | Missing Parameter | HandlingTotal Amt : Required parameter missing |

API Error Codes

Validation Errors

| Error Code | Short Message | Long Message |
|------------|-------------------|--|
| 81122 | Missing Parameter | TaxAmt : Required parameter missing |
| 81123 | Missing Parameter | IPAddress : Required parameter missing |
| 81124 | Missing Parameter | ShipToName : Required parameter missing |
| 81125 | Missing Parameter | L_Amt : Required parameter missing |
| 81126 | Missing Parameter | Amt : Required parameter missing |
| 81127 | Missing Parameter | L_TaxAmt : Required parameter missing |
| 81128 | Missing Parameter | AuthorizationID : Required parameter missing |
| 81129 | Missing Parameter | CompleteType : Required parameter missing |
| 81130 | Missing Parameter | CurrencyCode : Required parameter missing |
| 81131 | Missing Parameter | TransactionID : Required parameter missing |
| 81132 | Missing Parameter | TransactionEntity : Required parameter missing |
| 81133 | Missing Parameter | Acct : Required parameter missing |
| 81134 | Missing Parameter | ExpDate : Required parameter missing |
| 81135 | Missing Parameter | FirstName : Required parameter missing |
| 81136 | Missing Parameter | LastName : Required parameter missing |
| 81137 | Missing Parameter | Street : Required parameter missing |
| 81138 | Missing Parameter | Street2 : Required parameter missing |
| 81139 | Missing Parameter | City : Required parameter missing |
| 81140 | Missing Parameter | State : Required parameter missing |
| 81141 | Missing Parameter | Zip : Required parameter missing |
| 81142 | Missing Parameter | CountryCode : Required parameter missing |
| 81143 | Missing Parameter | RefundType : Required parameter missing |
| 81144 | Missing Parameter | StartDate : Required parameter missing |
| 81145 | Missing Parameter | EndDate : Required parameter missing |
| 81146 | Missing Parameter | MPID : Required parameter missing |
| 81147 | Missing Parameter | CreditCardType : Required parameter missing |
| 81148 | Missing Parameter | User : Required parameter missing |
| 81149 | Missing Parameter | Pwd : Required parameter missing |
| 81150 | Missing Parameter | Version : Required parameter missing |
| 81200 | Missing Parameter | Amt : Invalid parameter |
| 81201 | Invalid Parameter | MaxAmt : Invalid parameter |

| Error Code | Short Message | Long Message |
|------------|-------------------|--|
| 81203 | Invalid Parameter | NotifyURL : Invalid parameter |
| 81205 | Invalid Parameter | ShipToStreet : Invalid parameter |
| 81206 | Invalid Parameter | ShipToStreet2 : Invalid parameter |
| 81207 | Invalid Parameter | ShipToCity : Invalid parameter |
| 81208 | Invalid Parameter | ShipToState : Invalid parameter |
| 81209 | Invalid Parameter | ShipToZip : Invalid parameter |
| 81210 | Invalid Parameter | Country : Invalid parameter |
| 81211 | Invalid Parameter | ReqConfirmShipping : Invalid parameter |
| 81212 | Invalid Parameter | Noshipping : Invalid parameter |
| 81213 | Invalid Parameter | AddrOverride : Invalid parameter |
| 81214 | Invalid Parameter | LocaleCode : Invalid parameter |
| 81215 | Invalid Parameter | PaymentAction : Invalid parameter |
| 81219 | Invalid Parameter | ItemAmt : Invalid parameter |
| 81220 | Invalid Parameter | ShippingAmt : Invalid parameter |
| 81221 | Invalid Parameter | HandlingTotal Amt : Invalid parameter |
| 81222 | Invalid Parameter | TaxAmt : Invalid parameter |
| 81223 | Invalid Parameter | IPAddress : Invalid parameter |
| 81224 | Invalid Parameter | ShipToName : Invalid parameter |
| 81225 | Invalid Parameter | L_Amt : Invalid parameter |
| 81226 | Invalid Parameter | Amt : Invalid parameter |
| 81227 | Invalid Parameter | L_TaxAmt : Invalid parameter |
| 81229 | Invalid Parameter | CompleteType : Invalid parameter |
| 81230 | Invalid Parameter | CurrencyCode : Invalid parameter |
| 81232 | Invalid Parameter | TransactionEntity : Invalid parameter |
| 81234 | Invalid Parameter | ExpDate : Invalid parameter |
| 81235 | Invalid Parameter | FirstName : Invalid parameter |
| 81236 | Invalid Parameter | LastName : Invalid parameter |
| 81237 | Invalid Parameter | Street : Invalid parameter |
| 81238 | Invalid Parameter | Street2 : Invalid parameter |
| 81239 | Invalid Parameter | City : Invalid parameter |
| 81243 | Invalid Parameter | RefundType : Invalid parameter |

API Error Codes

Validation Errors

| Error Code | Short Message | Long Message |
|-------------------|----------------------|------------------------------------|
| 81244 | Invalid Parameter | StartDate : Invalid parameter |
| 81245 | Invalid Parameter | EndDate : Invalid parameter |
| 81247 | Invalid Parameter | CreditCardType : Invalid parameter |
| 81248 | Invalid Parameter | Username : Invalid parameter |
| 81249 | Invalid Parameter | Password : Invalid parameter |
| 81250 | Invalid Parameter | Version : Invalid parameter |
| 81251 | Internal Error | Internal Service Error |

Direct Payment API Errors

DirectPayment API Errors

| Error Code | Short Message | Long Message | Corrective Action |
|------------|--|---|--|
| 10102 | PaymentAction of Order Temporarily Unavailable | PaymentAction of Order is temporarily unavailable. Please try later or use other PaymentAction. | |
| 10401 | Transaction refused because of an invalid argument. See additional error messages for details. | Order total is missing. | |
| 10418 | Transaction refused because of an invalid argument. See additional error messages for details. | The currencies of the shopping cart amounts must be the same. | |
| 10426 | Transaction refused because of an invalid argument. See additional error messages for details. | Item total is invalid. | |
| 10427 | Transaction refused because of an invalid argument. See additional error messages for details. | Shipping total is invalid. | |
| 10428 | Transaction refused because of an invalid argument. See additional error messages for details. | Handling total is invalid. | |
| 10429 | Transaction refused because of an invalid argument. See additional error messages for details. | Tax total is invalid. | |
| 10432 | Invalid argument | Invoice ID value exceeds maximum allowable length. | |
| 10500 | Invalid Configuration | This transaction cannot be processed due to an invalid merchant configuration. | Occurs when you have not agreed to the billing agreement. |
| 10501 | Invalid Configuration | This transaction cannot be processed due to an invalid merchant configuration. | Occurs when the billing agreement is disabled or inactive. |

API Error Codes

Direct Payment API Errors

| Error Code | Short Message | Long Message | Corrective Action |
|------------|-----------------------|---|---|
| 10502 | Invalid Data | This transaction cannot be processed. Please use a valid credit card. | The credit card used is expired. |
| 10504 | Invalid Data | This transaction cannot be processed. Please enter a valid Credit Card Verification Number. | The CVV provided is invalid. The CVV is between 3-4 digits long. |
| 10505 | Gateway Decline | This transaction cannot be processed. | The transaction was refused because the AVS response returned the value of N, and the merchant account is not able to accept such transactions. |
| 10507 | Invalid Configuration | This transaction cannot be processed. Please contact PayPal Customer Service. | Your PayPal account is restricted - contact PayPal for more information. |
| 10508 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card expiration date. | The expiration date must be a two-digit month and four-digit year. |
| 10509 | Invalid Data | This transaction cannot be processed. | You must submit an IP address of the buyer with each API call. |
| 10510 | Invalid Data | The credit card type is not supported. Try another card type. | The credit card type entered is not currently supported by PayPal. |
| 10511 | Invalid Data | This transaction cannot be processed. | The merchant selected a value for the PaymentAction field that is not supported. |
| 10512 | Invalid Data | This transaction cannot be processed. Please enter a first name. | The first name of the buyer is required for this merchant. |
| 10513 | Invalid Data | This transaction cannot be processed. Please enter a last name. | The last name of the buyer is required for this merchant. |
| 10519 | Invalid Data | Please enter a credit card. | The credit card field was blank. |
| 10520 | Invalid Data | This transaction cannot be processed. | The total amount and item amounts do not match. |
| 10521 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card. | The credit card entered is invalid. |
| 10523 | Internal Error | This transaction cannot be processed. | None - this is a PayPal internal error. |

| Error Code | Short Message | Long Message | Corrective Action |
|------------|-----------------|---|---|
| 10525 | Invalid Data | This transaction cannot be processed. The amount to be charged is zero. | The merchant entered a amount of zero. |
| 10526 | Invalid Data | This transaction cannot be processed. The currency is not supported at this time. | The currency code entered is not supported. |
| 10527 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card number and type. | The credit card entered is invalid. |
| 10534 | Gateway Decline | This transaction cannot be processed. Please enter a valid credit card number and type. | The credit card entered is currently restricted by PayPal. Contact PayPal for more information. |
| 10535 | Gateway Decline | This transaction cannot be processed. Please enter a valid credit card number and type. | The credit card entered is invalid. |
| 10536 | Invalid Data | This transaction cannot be processed. | The merchant entered an invoice ID that is already associated with a transaction by the same merchant. By default, the invoice ID must be unique for all transactions. To change this setting, log into PayPal or contact customer service. |
| 10537 | Filter Decline | This transaction cannot be processed. | The transaction was declined by the country filter managed by the merchant. To accept this transaction, change your risk settings on PayPal. |
| 10538 | Filter Decline | This transaction cannot be processed. | The transaction was declined by the maximum amount filter managed by the merchant. To accept this transaction, change your risk settings on PayPal. |
| 10539 | Filter Decline | This transaction cannot be processed. | The transaction was declined by PayPal. Contact PayPal for more information. |
| 10540 | Invalid Data | The transaction cannot be processed due to an invalid address. | The transaction was declined by PayPal because of an invalid address. |
| 10541 | Gateway Decline | This transaction cannot be processed. Please enter a valid credit card number and type. | The credit card entered is currently restricted by PayPal. Contact PayPal for more information. |
| 10542 | Invalid Data | This transaction cannot be processed. Please enter a valid email address. | The email address provided by the buyer is in an invalid format. |

API Error Codes

Direct Payment API Errors

| Error Code | Short Message | Long Message | Corrective Action |
|------------|-----------------------|---|---|
| 10544 | Gateway Decline | This transaction cannot be processed. | The transaction was declined by PayPal. Contact PayPal for more information. |
| 10545 | Gateway Decline | This transaction cannot be processed. | The transaction was declined by PayPal because of possible fraudulent activity. Contact PayPal for more information. |
| 10546 | Gateway Decline | This transaction cannot be processed. | The transaction was declined by PayPal because of possible fraudulent activity on the IP address. Contact PayPal for more information. |
| 10547 | Internal Error | This transaction cannot be processed. | None - this is a PayPal internal error. |
| 10548 | Invalid Configuration | This transaction cannot be processed. The merchant's account is not able to process transactions. | The merchant account attempting the transaction is not a business account at PayPal. Check your account settings. |
| 10549 | Invalid Configuration | This transaction cannot be processed. The merchant's account is not able to process transactions. | The merchant account attempting the transaction is not able to process Direct Payment transactions. Contact PayPal for more information. |
| 10550 | Invalid Configuration | This transaction cannot be processed. | Access to Direct Payment was disabled for your account. Contact PayPal for more information. |
| 10552 | Invalid Configuration | This transaction cannot be processed. | The merchant account attempting the transaction does not have a confirmed email address with PayPal. Check your account settings. |
| 10553 | Gateway Decline | This transaction cannot be processed. | The merchant attempted a transaction where the amount exceeded the upper limit for that merchant. |
| 10554 | Filter Decline | This transaction cannot be processed. | The transaction was declined because of a merchant risk filter for AVS. Specifically, the merchant has set to decline transaction when the AVS returned a no match (AVS = N). |
| 10555 | Filter Decline | This transaction cannot be processed. | The transaction was declined because of a merchant risk filter for AVS. Specifically, the merchant has set to decline transaction when the AVS returned a partial match. |

| Error Code | Short Message | Long Message | Corrective Action |
|------------|---|---|---|
| 10556 | Filter Decline | This transaction cannot be processed. | The transaction was declined because of a merchant risk filter for AVS. Specifically, the merchant has set to decline transaction when the AVS was unsupported. |
| 10561 | Invalid Data | There's an error with this transaction. Please enter complete billing address. | |
| 10562 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card expiration year. | |
| 10563 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card expiration month. | |
| 10564 | Gateway Decline | This transaction cannot be processed. | There was a problem processing this transaction. |
| 10565 | Merchant country unsupported | The merchant country is not supported. | |
| 10566 | Credit card type unsupported | The credit card type is not supported. | |
| 10567 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card number and type. | |
| 10571 | Transaction approved, but with invalid Card Security Code (CSC) format. | This transaction was approved, although the Card Security Code (CSC) had too few, too many, or invalid characters. Based on your account profile settings, the invalid CSC was not given to the card issuer for its approval process. | If you want to require valid CVV values, change the risk control settings in your account profile. |
| 10701 | Invalid Data | There's an error with this transaction. Please enter a valid billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10702 | Invalid Data | There's an error with this transaction. Please enter a valid address1 in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |

API Error Codes

Direct Payment API Errors

| Error Code | Short Message | Long Message | Corrective Action |
|-------------------|----------------------|--|---|
| 10703 | Invalid Data | There's an error with this transaction. Please enter a valid address2 in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10704 | Invalid Data | There's an error with this transaction. Please enter a valid city in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10705 | Invalid Data | There's an error with this transaction. Please enter a valid state in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10706 | Invalid Data | There's an error with this transaction. Please enter a valid postal code in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10707 | Invalid Data | There's an error with this transaction. Please enter a valid country in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10708 | Invalid Data | There's an error with this transaction. Please enter a complete billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10709 | Invalid Data | There's an error with this transaction. Please enter an address1 in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10709 | Invalid Data | There's an error with this transaction. Please enter an address1 in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10710 | Invalid Data | There's an error with this transaction. Please enter a city in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10710 | Invalid Data | There's an error with this transaction. Please enter a city in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |

| Error Code | Short Message | Long Message | Corrective Action |
|------------|---------------|--|---|
| 10711 | Invalid Data | There's an error with this transaction. Please enter your state in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10712 | Invalid Data | There's an error with this transaction. Please enter your five digit postal code in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10713 | Invalid Data | There's an error with this transaction. Please enter a country in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10713 | Invalid Data | There's an error with this transaction. Please enter a country in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10714 | Invalid Data | There's an error with this transaction. Please enter a valid billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10715 | Invalid Data | There's an error with this transaction. Please enter a valid state in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10716 | Invalid Data | There's an error with this transaction. Please enter your five digit postal code in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10717 | Invalid Data | There's an error with this transaction. Please enter a valid postal code in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10718 | Invalid Data | There's an error with this transaction. Please enter a valid city and state in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10719 | Invalid Data | There's an error with this transaction. Please enter a valid shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |

API Error Codes

Direct Payment API Errors

| Error Code | Short Message | Long Message | Corrective Action |
|------------|---------------|---|---|
| 10720 | Invalid Data | There's an error with this transaction. Please enter a valid address1 in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10721 | Invalid Data | There's an error with this transaction. Please enter a valid address2 in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10722 | Invalid Data | There's an error with this transaction. Please enter a valid city in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10723 | Invalid Data | There's an error with this transaction. Please enter a valid state in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10724 | Invalid Data | There's an error with this transaction. Please enter your five digit postal code in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10725 | Invalid Data | There's an error with this transaction. Please enter a valid country in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10726 | Invalid Data | There's an error with this transaction. Please enter a complete shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10726 | Invalid Data | There's an error with this transaction. Please enter a complete shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10727 | Invalid Data | There's an error with this transaction. Please enter an address1 in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10727 | Invalid Data | There's an error with this transaction. Please enter an address1 in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |

| Error Code | Short Message | Long Message | Corrective Action |
|------------|---------------|---|---|
| 10728 | Invalid Data | There's an error with this transaction. Please enter a city in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10728 | Invalid Data | There's an error with this transaction. Please enter a city in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10729 | Invalid Data | There's an error with this transaction. Please enter your state in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10730 | Invalid Data | There's an error with this transaction. Please enter your five digit postal code in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10731 | Invalid Data | There's an error with this transaction. Please enter a country in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10731 | Invalid Data | There's an error with this transaction. Please enter a country in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10732 | Invalid Data | There's an error with this transaction. Please enter a valid shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10733 | Invalid Data | There's an error with this transaction. Please enter a valid state in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10734 | Invalid Data | There's an error with this transaction. Please enter your five digit postal code in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10735 | Invalid Data | There's an error with this transaction. Please enter your five digit postal code in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |

API Error Codes

Direct Payment API Errors

| Error Code | Short Message | Long Message | Corrective Action |
|------------|-----------------|--|--|
| 10736 | Invalid Data | There's an error with this transaction. Please enter a valid city and state in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10744 | Invalid Data | This transaction cannot be processed. Please enter a valid country code in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10745 | Invalid Data | This transaction cannot be processed. Please enter a valid country code in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10746 | Invalid Data | This transaction cannot be processed. Please use a valid country on the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10747 | Invalid Data | This transaction cannot be processed. | The merchant entered an IP address that was in an invalid format. The IP address must be in a format such as 123.456.123.456. |
| 10748 | Invalid Data | This transaction cannot be processed without a Credit Card Verification Number. | The merchant's configuration requires a CVV to be entered, but no CVV was provided with this transaction. Contact PayPal if you wish to change this setting. |
| 10750 | Invalid Data | There's an error with this transaction. Please enter a valid state in the shipping address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10751 | Invalid Data | There's an error with this transaction. Please enter a valid state in the billing address. | The merchant provided an address either in the United States or Canada, but the state provided is not a valid state in either country. |
| 10752 | Gateway Decline | This transaction cannot be processed. | The transaction was declined by the issuing bank, not PayPal. The merchant should attempt another card. |
| 10754 | Gateway Decline | This transaction cannot be processed. | The transaction was declined by PayPal. Contact PayPal for more information. |
| 10755 | Invalid Data | This transaction cannot be processed due to an unsupported currency. | The currency code entered by the merchant is not supported. |

| Error Code | Short Message | Long Message | Corrective Action |
|------------|--|---|---|
| 10756 | Gateway Decline | The transaction cannot be processed. The country and billing address associated with this credit card do not match. | None - this is a PayPal internal error. |
| 10758 | Invalid Configuration | There's been an error due to invalid API username and/or password. | The API username or password is incorrect for this merchant. |
| 10759 | Gateway Decline | This transaction cannot be processed. Please enter a valid credit card number and type. | The transaction was declined by PayPal. Contact PayPal for more information. |
| 10760 | Invalid Configuration | This transaction cannot be processed. The country listed for your business address is not currently supported. | The merchant's country of residence listed in their PayPal account is not currently supported to allow Direct Payment transactions. |
| 10761 | Gateway Decline | This transaction cannot be processed. Please check the status of your first transaction before placing another order. | The transaction was declined because PayPal is currently processing a transaction by the same buyer for the same amount. Can occur when a buyer submits multiple, identical transactions in quick succession. |
| 10762 | Gateway Decline | This transaction cannot be processed. | The CVV provide is invalid. The CVV is between 3-4 digits long. |
| 10763 | Invalid Data | This transaction cannot be processed. | None - this is a PayPal internal error. |
| 10764 | This transaction cannot be processed at this time. Please try again later. | This transaction cannot be processed at this time. Please try again later. | The transaction was declined by PayPal. Contact PayPal for more information. |
| 11610 | Payment Pending your review in Fraud Management Filters | Payment Pending your review in Fraud Management Filters | |
| 11611 | Transaction blocked by your settings in FMF | Transaction blocked by your settings in FMF | |
| 11612 | Could not process your request to accept/deny the transaction | Could not process your request to accept/deny the transaction | |
| 11821 | This transaction cannot be processed | This transaction cannot be processed because it has already been denied by a Fraud Management Filter | You cannot capture a payment after it has been denied by a Fraud Management Filter. You can control whether a Fraud Management Filter will deny a transaction by changing the filter's settings in the profile. |

API Error Codes

Direct Payment API Errors

| Error Code | Short Message | Long Message | Corrective Action |
|------------|-----------------------|---|---|
| 15001 | Gateway Decline | This transaction cannot be processed. | The transaction was rejected by PayPal because of excessive failures over a short period of time for this credit card. Contact PayPal for more information. |
| 15002 | Gateway Decline | This transaction cannot be processed. | The transaction was declined by PayPal. Contact PayPal for more information. |
| 15003 | Invalid Configuration | This transaction cannot be processed. | The transaction was declined because the merchant does not have a valid commercial entity agreement on file with PayPal. Contact PayPal for more information. |
| 15004 | Gateway Decline | This transaction cannot be processed. Please enter a valid Credit Card Verification Number. | The transaction was declined because the CVV entered does not match the credit card. |
| 15005 | Processor Decline | This transaction cannot be processed. | The transaction was declined by the issuing bank, not PayPal. The merchant should attempt another card. |
| 15006 | Processor Decline | This transaction cannot be processed. Please enter a valid credit card number and type. | The transaction was declined by the issuing bank, not PayPal. The merchant should attempt another card. |
| 15007 | Processor Decline | This transaction cannot be processed. Please use a valid credit card. | The transaction was declined by the issuing bank because of an expired credit card. The merchant should attempt another card. |
| 15008 | Invalid Data | This transaction has been completed, but the total of items in the cart did not match the total of all items. | |

SetExpressCheckout API Errors

SetExpressCheckout API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--------------------------|
| 10001 | ButtonSource value truncated. | The transaction could not be loaded | |
| 10001 | Internal Error | Internal Error | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Transaction refused because of an invalid argument. See additional error messages for details. | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction id is not valid | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid value for request billing address parameter. | |
| 10007 | Permission denied | You do not have permission to make this API call | |
| 10010 | Invalid Invoice | Non-ASCII invoice id is not supported. | |
| 10102 | PaymentAction of Order Temporarily Unavailable | PaymentAction of Order is temporarily unavailable. Please try later or use other PaymentAction. | |
| 10103 | Please use another Solution Type. | Your Solution Type is temporarily unavailable. If possible, please use another Solution Type. | |
| 10400 | Transaction refused because of an invalid argument. See additional error messages for details | OrderTotal is missing. | |
| 10401 | Transaction refused because of an invalid argument. See additional error messages for details | Order total is invalid. | |
| 10402 | Authorization only is not allowed for merchant. | This merchant account is not permitted to set PaymentAction to Authorization. Please contact Customer Service. | |

API Error Codes

SetExpressCheckout API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--|
| 10404 | Transaction refused because of an invalid argument. See additional error messages for details. | ReturnURL is missing. | |
| 10405 | Transaction refused because of an invalid argument. See additional error messages for details. | CancelURL is missing. | |
| 10407 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid buyer email address (BuyerEmail). | |
| 10409 | You're not authorized to access this info. | Express Checkout token was issued for a merchant account other than yours. | |
| 10410 | Invalid token | Invalid token. | |
| 10411 | This Express Checkout session has expired. | This Express Checkout session has expired. Token value is no longer valid. | If you receive this error, you must return your customer to PayPal to approve the use of PayPal again. Display an error message to inform the customer that the transaction expired, and provide a button to return to PayPal. In this situation, you are effectively restarting the entire checkout process. (Do not reuse the expired token value on <code>SetExpressCheckout</code> request.) However, because you already know the final <code>OrderTotal</code> , be sure to update the value for that element if appropriate. You might also want to update the values for <code>ReturnURL</code> and <code>CancelURL</code> , if necessary. |

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--|
| 10412 | Duplicate invoice | Payment has already been made for this InvoiceID. | <p>PayPal checks that <code>InvoiceID</code> values are unique for any particular merchant. If you send an <code>InvoiceID</code> value already associated with another transaction in the PayPal system, PayPal returns error code 10412.</p> <p>You might not be able to correct this error during an actual checkout. If you get this error, research why might occur and modify your implementation of Express Checkout to ensure that you generate unique invoice identification numbers.</p> |
| 10413 | Transaction refused because of an invalid argument. See additional error messages for details | The totals of the cart item amounts do not match order amounts. | |
| 10415 | Transaction refused because of an invalid argument. See additional error messages for details. | A successful transaction has already been completed for this token. | <p>PayPal allows a token only once for a successful transaction.</p> <p>Handling this error If you determine that your customers are clicking your “Place Order” button twice, PayPal recommends that you disable the button after your customer has clicked it.</p> |
| 10418 | Transaction refused because of an invalid argument. See additional error messages for details | The currencies of the shopping cart amounts must be the same. | |
| 10425 | Express Checkout has been disabled for this merchant. | Express Checkout has been disabled for this merchant. Please contact Customer Service. | |
| 10426 | Transaction refused because of an invalid argument. See additional error messages for details | Item total is invalid. | |

API Error Codes

SetExpressCheckout API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--------------------------|
| 10427 | Transaction refused because of an invalid argument. See additional error messages for details | Shipping total is invalid. | |
| 10428 | Transaction refused because of an invalid argument. See additional error messages for details | Handling total is invalid. | |
| 10429 | Transaction refused because of an invalid argument. See additional error messages for details | Tax total is invalid. | |
| 10430 | Transaction refused because of an invalid argument. See additional error messages for details | Item amount is missing. | |
| 10431 | Transaction refused because of an invalid argument. See additional error messages for details | Item amount is invalid. | |
| 10432 | Transaction refused because of an invalid argument. See additional error messages for details | Invoice ID value exceeds maximum allowable length. | |
| 10433 | Transaction refused because of an invalid argument. See additional error messages for details | Value of Order Description has been truncated. | |
| 10434 | Transaction refused because of an invalid argument. See additional error messages for details | Value of Custom element has been truncated. | |
| 10436 | Transaction refused because of an invalid argument. See additional error messages for details. | PageStyle value exceeds maximum allowable length. | |
| 10437 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-header-image value exceeds maximum allowable length. | |

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--------------------------|
| 10438 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-header-image value exceeds maximum allowable length. | |
| 10439 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-header-image value exceeds maximum allowable length. | |
| 10440 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-header-image value exceeds maximum allowable length. | |
| 10441 | Transaction refused because of an invalid argument. See additional error messages for details | The NotifyURL element value exceeds maximum allowable length. | |
| 10442 | ButtonSource value truncated | The ButtonSource element value exceeds maximum allowable length. | |
| 10457 | Error occurred in communicating to eBay | eBay API creation error | |
| 10458 | Error occurred in communicating to eBay | eBay API unknown failure | |
| 10459 | Error occurred in communicating to eBay | eBay API failure | |
| 10460 | Error occurred in communicating to eBay | Parsing error | |
| 10461 | Error occurred in communicating to eBay | Item number invalid, removed, or unavailable | |
| 10462 | Error occurred in communicating to eBay | Order not found | |
| 10463 | Error occurred in communicating to eBay | eBay user password incorrect | |
| 10464 | Error occurred in communicating to eBay | eBay user invalid | |
| 10465 | Error occurred in communicating to eBay | Item ID and Transaction ID mismatch | |
| 10467 | Error occurred in communicating to eBay | Duplicate Item ID | |

API Error Codes

SetExpressCheckout API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|---|--|--------------------------|
| 10468 | Transaction refused because of an invalid argument. See additional error messages for details | Duplicate Order ID | |
| 10469 | PaymentAction of Order Temporarily Unavailable | Express Auctions is unavailable | |
| 10470 | Wowo flag is off for ExpressO feature | Solution Type passed as Sole while ExpressO feature is turned off | |
| 10471 | Transaction refused because of an invalid argument. See additional error messages for details | ReturnURL is missing | |
| 10472 | Transaction refused because of an invalid argument. See additional error messages for details | CancelURL is missing | |
| 10473 | Error occurred in communicating to eBay | Multiple Order IDs are not supported | |
| 10474 | Invalid Data | This transaction cannot be processed. The country code in the shipping address must match the buyer's country of residence | |
| 10475 | Transaction refused because of an invalid argument. See additional error messages for details | This transaction cannot be completed with PaymentAction of Sale | |
| 10476 | Invalid Data | Maximum number of billing agreements exceeded | |
| 10477 | Invalid Data | More than one billing agreement specified for reference transaction | |
| 10478 | Invalid Data | Recurring payments profile description must be provided if the billing agreement type is recurring payments | |
| 10479 | Invalid Data | Billing agreement types cannot be mixed in the same request | |
| 10480 | Invalid Data | Invalid billing agreement type | |

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|---|---|--------------------------|
| 10537 | Risk Control Country Filter Failure | The transaction was refused because the country was prohibited as a result of your Country Monitor Risk Control Settings. | |
| 10538 | Risk Control Max Amount Failure | The transaction was refused because the maximum amount was exceeded as a result of your Maximum Amount Risk Control Settings. | |
| 10539 | Payment declined by your Risk Controls settings: PayPal Risk Model. | Payment declined by your Risk Controls settings: PayPal Risk Model. | |
| 10725 | Shipping Address Country Error | There was an error in the Shipping Address Country field | |
| 10727 | Shipping Address1 Empty | The field Shipping Address1 is required | |
| 10728 | Shipping Address City Empty | The field Shipping Address City is required | |
| 10729 | Shipping Address State Empty | The field Shipping Address State is required | |
| 10730 | Shipping Address Postal Code Empty | The field Shipping Address Postal Code is required | |
| 10731 | Shipping Address Country Empty | The field Shipping Address Country is required | |
| 10736 | Shipping Address Invalid City State Postal Code | A match of the Shipping Address City, State, and Postal Code failed. | |
| 10800 | Invalid Data | Your request is too long. Check URLs and other long strings. | |
| 11547 | Recurring payments temporarily unavailable; try again later | Recurring payments temporarily unavailable. | |
| 11601 | Request for billing address failed | Billing address request is not enabled for merchant | |
| 11602 | Request for billing address failed | Feature not yet available | |
| 11801 | Invalid Data | You cannot pass both new and deprecated parameter address fields. | |
| 11802 | Invalid Data | You cannot pass both the new and deprecated Custom parameter. | |

API Error Codes

SetExpressCheckout API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|---|---|--------------------------|
| 11803 | Invalid Data | You cannot pass both the new and deprecated Invoice ID parameter. | |
| 11804 | Invalid Data | You cannot pass both the new and deprecated order description. | |
| 11805 | Invalid Data | You cannot pass both the new and deprecated order total or amount parameters. | |
| 11806 | Invalid Data | You cannot pass both the new and deprecated ProfileAddressChangeDate parameter. | |
| 11807 | Invalid Data | You cannot pass both the new and deprecated ShippingMethod parameter. | |
| 11810 | Transaction refused because of an invalid argument. See additional error messages for details | Invalid Insurance Amount. | |
| 11811 | Transaction refused because of an invalid argument. See additional error messages for details | Invalid Shipping Discount. | |
| 11812 | Invalid Data | The value of Description parameter has been truncated. | |
| 11813 | Transaction refused because of an invalid argument. See additional error messages for details | Invalid callback URL. | |
| 11814 | Invalid data | Invalid value for AllowNote. | |
| 11815 | Transaction refused because of an invalid argument. See additional error messages for details | Item sales tax is invalid. | |
| | Callback options missing | You must specify callback options when you specify a callback URL | |
| | Invalid callback timeout | The callback timeout is zero; you must specify a longer timeout | |
| | Line items missing | Line items are required when specifying a callback URL for flat rate shipping options | |

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|---|--|--------------------------|
| | Callback URL is too long | The callback URL must not exceed 1,024 characters | |
| | Multiple default shipping options specified | You can only specify one default shipping option at a time | |
| | No default shipping option specified | You must specify a default shipping option | |
| | Invalid shipping total | Invalid shipping total; it should equal the shipping amount of the default shipping option | |
| | Invalid shipping options | Invalid shipping options; you must specify a name and amount for each shipping option | |

GetExpressCheckoutDetails API Errors

GetExpressCheckoutDetails API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--------------------------|
| 10001 | Internal Error | Internal Error | |
| 10001 | Internal Error | Transaction failed due to internal error | |
| 10001 | ButtonSource value truncated. | The transaction could not be loaded | |
| 10001 | ButtonSource value truncated. | The transaction could not be loaded | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Transaction refused because of an invalid argument. See additional error messages for details. | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction id is not valid | |
| 10004 | Invalid transaction type | You can not get the details for this type of transaction | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction could not be loaded | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction id is not valid | |
| 10007 | Permission denied | You do not have permission to make this API call | |
| 10007 | Permission denied | You do not have permission to get the details of this transaction | |
| 10007 | Permission denied | You do not have permission to make this API call | |
| 10408 | Express Checkout token is missing. | Express Checkout token is missing. | |
| 10409 | You're not authorized to access this info. | Express Checkout token was issued for a merchant account other than yours. | |
| 10410 | Invalid token | Invalid token. | |

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--------------------------|
| 10411 | This Express Checkout session has expired. | This Express Checkout session has expired. Token value is no longer valid. | |

DoExpressCheckoutPayment API Errors

Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--------------------------|
| 10001 | Internal Error | Transaction failed due to internal error | |
| 10001 | Internal Error | Warning an internal error has occurred. The transaction id may not be correct | |
| 10001 | ButtonSource value truncated. | The transaction could not be loaded | |
| 10001 | Internal Error | Internal Error | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Transaction refused because of an invalid argument. See additional error messages for details. | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction id is not valid | |
| 10007 | Permission denied | You do not have permissions to make this API call | |
| 10406 | Transaction refused because of an invalid argument. See additional error messages for details. | The PayerID value is invalid. | |
| 10408 | Express Checkout token is missing. | Express Checkout token is missing. | |
| 10409 | You're not authorized to access this info. | Express Checkout token was issued for a merchant account other than yours. | |
| 10410 | Invalid token | Invalid token. | |
| 10411 | This Express Checkout session has expired. | This Express Checkout session has expired. Token value is no longer valid. | |
| 10412 | Duplicate invoice | Payment has already been made for this InvoiceID. | |

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|---|---|
| 10413 | Transaction refused because of an invalid argument. See additional error messages for details. | The totals of the cart item amounts do not match order amounts. | <ul style="list-style-type: none"> ● ItemTotal ● ShippingTotal ● HandlingTotal ● TaxTotal <p>If you get this error, research why it might have occurred and modify your implementation of Express Checkout to ensure proper addition of the values.</p> |
| 10414 | Transaction refused because of an invalid argument. See additional error messages for details. | The amount exceeds the maximum amount for a single transaction. | |
| 10415 | Transaction refused because of an invalid argument. See additional error messages for details. | A successful transaction has already been completed for this token. | |
| 10416 | Transaction refused because of an invalid argument. See additional error messages for details. | You have exceeded the maximum number of payment attempts for this token. | |
| 10417 | Transaction cannot complete. | The transaction cannot complete successfully. Instruct the customer to use an alternative payment method. | Instruct the customer that PayPal is unable to process the payment and redisplay alternative payment methods with which the customer can pay. |
| 10418 | Transaction refused because of an invalid argument. See additional error messages for details. | The currencies of the shopping cart amounts must be the same. | |
| 10419 | Express Checkout PayerID is missing. | Express Checkout PayerID is missing. | |
| 10420 | Transaction refused because of an invalid argument. See additional error messages for details. | Express Checkout PaymentAction is missing. | |
| 10421 | This Express Checkout session belongs to a different customer. | This Express Checkout session belongs to a different customer. Token value mismatch. | Verify that your programs are properly associating the Tokens and PayerIDs. |
| 10422 | Customer must choose new funding sources. | The customer must return to PayPal to select new funding sources. | |

API Error Codes

DoExpressCheckoutPayment API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|---|--|
| 10424 | Transaction refused because of an invalid argument. See additional error messages for details. | Shipping address is invalid. | If you receive this error message, PayPal recommends that you return your customer to PayPal to review and approve new valid funding sources. Although this error is rare, you should consider trapping the error to display a message to the customer describing what happened, along with a button or hyperlink to return to PayPal. |
| 10426 | Transaction refused because of an invalid argument. See additional error messages for details. | Item total is invalid. | |
| 10427 | Transaction refused because of an invalid argument. See additional error messages for details. | Shipping total is invalid. | |
| 10428 | Transaction refused because of an invalid argument. See additional error messages for details. | Handling total is invalid. | |
| 10429 | Transaction refused because of an invalid argument. See additional error messages for details. | Tax total is invalid. | |
| 10431 | Item amount is invalid. | Item amount is invalid. | |
| 10432 | Transaction refused because of an invalid argument. See additional error messages for details. | Invoice ID value exceeds maximum allowable length. | |
| 10433 | Transaction refused because of an invalid argument. See additional error messages for details. | Value of OrderDescription element has been truncated. | |
| 10434 | Transaction refused because of an invalid argument. See additional error messages for details. | Value of Custom element has been truncated. | |
| 10435 | Transaction refused because of an invalid argument. See additional error messages for details. | The customer has not yet confirmed payment for this Express Checkout session. | |

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|---|--|
| 10441 | Transaction refused because of an invalid argument. See additional error messages for details. | The NotifyURL element value exceeds maximum allowable length. | |
| 10442 | ButtonSource value truncated. | The ButtonSource element value exceeds maximum allowable length. | |
| 10443 | Transaction refused because of an invalid argument. See additional error messages for details. | This transaction cannot be completed with PaymentAction of Order. | |
| 10444 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction currency specified must be the same as previously specified. | |
| 10445 | This transaction cannot be processed at this time. Please try again later. | This transaction cannot be processed at this time. Please try again later. | |
| 10446 | Unconfirmed email | A confirmed email is required to make this API call. | |
| 10474 | Invalid Data | This transaction cannot be processed. The country code in the shipping address must match the buyer's country of residence. | The buyer selects the country of residence when they sign up for their PayPal account. The country of residence is displayed after the dash in the title on the Account Overview page. |
| 10537 | Risk Control Country Filter Failure | The transaction was refused because the country was prohibited as a result of your Country Monitor Risk Control Settings. | |
| 10538 | Risk Control Max Amount Failure | The transaction was refused because the maximum amount was exceeded as a result of your Maximum Amount Risk Control Settings. | |
| 10539 | Payment declined by your Risk Controls settings: PayPal Risk Model. | Payment declined by your Risk Controls settings: PayPal Risk Model. | |
| 10725 | Shipping Address Country Error | There was an error in the Shipping Address Country field | |

API Error Codes

DoExpressCheckoutPayment API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|---|--|--------------------------|
| 10727 | Shipping Address1 Empty | The field Shipping Address1 is required | |
| 10728 | Shipping Address City Empty | The field Shipping Address City is required | |
| 10729 | Shipping Address State Empty | The field Shipping Address State is required | |
| 10730 | Shipping Address Postal Code Empty | The field Shipping Address Postal Code is required | |
| 10731 | Shipping Address Country Empty | The field Shipping Address Country is required | |
| 10736 | Shipping Address Invalid City State Postal Code | A match of the Shipping Address City, State, and Postal Code failed. | |
| 11610 | Payment Pending your review in Fraud Management Filters | Payment Pending your review in Fraud Management Filters | |
| 11611 | Transaction blocked by your settings in FMF | Transaction blocked by your settings in FMF | |
| 11612 | Could not process your request to accept/deny the transaction | Could not process your request to accept/deny the transaction | |
| 11820 | Transaction refused because of an invalid argument. See additional error messages for details | Invalid Order URL. | |
| | Invalid shipping amount | Invalid shipping amount; it should equal the shipping amount of the selected shipping option | |
| | Invalid shipping options | Invalid shipping options; you must specify a name and amount for each shipping option | |

Authorization and Capture API Errors

Authorization & Capture API Error Messages

| Error Code | Short Message | Long Message | Returned By API Call... | Correcting This Error... |
|------------|--|---|---|---|
| 10001 | Internal Error | Internal Error | | |
| 10001 | Internal Error | Transaction failed due to internal error | | |
| 10004 | Internal Error | Invalid argument | | |
| 10007 | Permission denied | You do not have permissions to make this API call | | |
| 10009 | Transaction refused | Account is locked or inactive | | Retry the request at a later time or close order. |
| 10010 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid argument | | |
| 10202 | Exceed max | Transaction would exceed user's monthly maximum | DoAuthorization DoCapture | |
| 10600 | Authorization voided. | Authorization is voided. | DoAuthorization DoCapture DoReauthorization DoVoid | Close the order or authorization. |
| 10601 | Authorization expired. | Authorization has expired. | DoAuthorization DoCapture DoReauthorization DoVoid | Close the order or authorization. |
| 10602 | Authorization completed. | Authorization has already been completed. | DoAuthorization DoCapture DoReauthorization DoVoid | Close the order or authorization. |
| 10603 | The buyer is restricted. | The buyer account is restricted. | DoAuthorization DoCapture DoReauthorization DoVoid | Contact the buyer. |

API Error Codes

Authorization and Capture API Errors

| Error Code | Short Message | Long Message | Returned By API Call... | Correcting This Error... |
|------------|---|--|---|---|
| 10604 | Authorization must include both buyer and seller. | Authorization transaction cannot be unilateral. It must include both buyer and seller to make an auth. | DoAuthorization | Review the order to ensure customer and seller are both PayPal members. |
| 10605 | Unsupported currency. | Currency is not supported. | DoAuthorization DoCapture | Retry the request with a PayPal-supported currency. |
| 10606 | Buyer cannot pay. | Transaction rejected, please contact the buyer. | DoAuthorization DoCapture DoReauthorization | Contact the buyer. |
| 10607 | Auth&Capture unavailable. | Authorization & Capture feature unavailable. | DoAuthorization DoCapture DoReauthorization DoVoid | Contact PayPal Customer Service. |
| 10608 | Funding source missing. | The funding source is missing. | DoAuthorization DoCapture DoReauthorization | Contact the buyer. |
| 10609 | Invalid transactionID. | Transaction id is invalid. | DoAuthorization DoCapture DoReauthorization DoVoid | Check the validity of the authorization ID and reattempt the request. |
| 10610 | Amount limit exceeded. | Amount specified exceeds allowable limit. | DoAuthorization DoCapture DoReauthorization | Reattempt the request with a lower amount. |
| 10611 | Not enabled. | Authorization & Capture feature is not enabled for the merchant. Contact customer service. | DoAuthorization DoCapture DoReauthorization | Contact PayPal Customer Service. |
| 10612 | No more settlement. | Maxmimum number of allowable settlements has been reached. No more settlement for the authorization. | DoCapture | Close the order. |
| 10613 | Currency mismatch. | Currency of capture must be the same as currency of authorization. | DoCapture | Ensure that the currencies are the same, and retry the request. |
| 10614 | Cannot void reauth. | You can void only the original authorization, not a reauthorization. | DoVoid | Void the authorization. |

| Error Code | Short Message | Long Message | Returned By API Call... | Correcting This Error... |
|------------|--|---|---|---|
| 10615 | Cannot reauth reauth. | You can reauthorize only the original authorization, not a reauthorization. | DoReauthorization | Capture the reauthorization. |
| 10616 | Maximum number of reauthorization allowed for the auth is reached. | Maximum number of reauthorization allowed for the auth is reached. | DoReauthorization | Capture or close the authorization |
| 10617 | Reauthorization not allowed. | Reauthorization is not allowed inside honor period. | DoReauthorization | Capture the authorization or reauthorize outside of honor period. |
| 10618 | Transaction already voided or expired. | Transaction has already been voided or expired. | DoAuthorization DoCapture DoReauthorization DoVoid | Close the order or authorization. |
| 10619 | Invoice ID value exceeds maximum allowable length. | Invoice ID value exceeds maximum allowable length. | DoCapture | Check the length of the invoice ID and reattempt the request. |
| 10620 | Order has already been voided, expired, or completed. | Order has already been voided, expired, or completed. | DoAuthorization DoCapture DoVoid | Close this order. |
| 10621 | Order has expired. | Order has expired. | DoAuthorization DoCapture DoVoid | Close this order. |
| 10622 | Order is voided. | Order is voided. | DoAuthorization DoCapture DoVoid | Close this order. |
| 10623 | Maximum number of authorization allowed for the order is reached. | Maximum number of authorization allowed for the order is reached. | DoAuthorization DoCapture DoReauthorization DoVoid | Capture this order. |
| 10624 | Duplicate invoice | Payment has already been made for this Invoice ID. | DoAuthorization | Review the invoice ID and reattempt the request. |

API Error Codes

Authorization and Capture API Errors

| Error Code | Short Message | Long Message | Returned By API Call... | Correcting This Error... |
|------------|--|---|---|--|
| 10625 | Transaction refused because of an invalid argument. See additional error messages for details. | The amount exceeds the maximum amount for a single transaction. | DoAuthorization DoCapture DoReauthorization | Reattempt the request with a lower amount. |
| 10626 | Risk | Transaction refused due to risk model. | DoAuthorization DoCapture DoReauthorization | Contact the buyer. |
| 10627 | Transaction refused because of an invalid argument. See additional error messages for details. | The invoice ID field is not supported for basic authorizations. | DoAuthorization DoReauthorization DoVoid | The Invoice ID field can only be used with DoCapture. |
| 10628 | This transaction cannot be processed at this time. Please try again later. | This transaction cannot be processed at this time. Please try again later. | DoAuthorization DoCapture DoReauthorization DoVoid | Retry the request at a later time. |
| 10629 | Reauthorization not allowed. | Reauthorization is not allowed for this type of authorization. | DoReauthorization | Use DoAuthorization to authorize the an order. |
| 10630 | Item amount is invalid. | Item amount is invalid. | DoAuthorization DoCapture | Check the item amount to ensure that it is not zero or negative. |
| 11094 | This authorization cannot be voided, reauthorized, or captured against. | This authorization can only be handled through the marketplace which created it. It cannot directly be voided, reauthorized, or captured against. | | |

GetTransactionDetails API Errors

GetTransactionDetails API Errors

| Error Code | Short Message | Long Message |
|------------|----------------|----------------|
| 10001 | Internal Error | Internal Error |

TransactionSearch API Errors

TransactionSearch API Errors

| Error Code | Short Message | Long Message |
|------------|--|-------------------------------------|
| 10001 | Internal Error | Internal Error |
| 10001 | ButtonSource value truncated. | The transaction could not be loaded |
| 10003 | Transaction refused because of an invalid argument. See additional error messages for details. | Start date is a required parameter |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Start date is invalid |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | End date is invalid |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Currency is not supported |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Transaction class is not supported |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Receipt id is not valid |

API Error Codes

TransactionSearch API Errors

| Error Code | Short Message | Long Message |
|------------|--|---|
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Payer email is invalid |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Auction item id is not valid |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Receiver email is invalid |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | You can not search for a transaction id and a receipt id |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Receiver can only be specified for payments you've received |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction id is not valid |
| 10007 | Permission denied | You do not have permission to search for this transaction |
| 10007 | Permission denied | You do not have permission to make this API call |
| 11002 | Search warning | The number of results were truncated. Please change your search parameters if you wish to see all your results. |

RefundTransaction API Errors

RefundTransaction API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--------------------------|
| 10001 | Internal Error | Internal Error | |
| 10001 | Internal Error | Warning an internal error has occurred. The transaction id may not be correct | |
| 10001 | ButtonSource value truncated. | The transaction could not be loaded | |
| 10001 | Internal Error | Internal Error | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The partial refund amount must be a positive amount | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | You can not specify a partial amount with a full refund | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | A transaction id is required | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The partial refund amount must be a positive amount | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | You can not specify a partial amount with a full refund | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | A transaction id is required | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Transaction class is not supported | |

API Error Codes

RefundTransaction API Errors

| Error Code | Short Message | Long Message | Correcting This Error... |
|------------|--|--|--|
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction id is not valid | |
| 10007 | Permission denied | You do not have permission to refund this transaction | |
| 10007 | Permission denied | You do not have permissions to make this API call | |
| 10009 | Transaction refused | You do not have a verified ACH | This error can be caused by insufficient funds in your PayPal balance to cover the amount of the refund and either your not having yet verified the bank account associated with your PayPal account or your not having any bank account associated with your PayPal account at all. Ensure that you have sufficient funds in your PayPal balance and that you have verified the associated bank account. |
| 10009 | Transaction refused | The partial refund amount must be less than or equal to the original transaction amount | |
| 10009 | Transaction refused | The partial refund amount must be less than or equal to the remaining amount | |
| 10009 | Transaction refused | The partial refund amount is not valid | |
| 10009 | Transaction refused | Because a complaint case exists on this transaction, only a refund of the full or full remaining amount of the transaction can be issued | |
| 10009 | Transaction refused | You are over the time limit to perform a refund on this transaction | |
| 10009 | Transaction refused | Can not do a full refund after a partial refund | |
| 10009 | Transaction refused | Account is locked or inactive | |
| 10009 | Transaction refused | The partial refund must be the same currency as the original transaction | |

| Error Code | Short Message | Long Message | Correcting This Error... |
|-------------------|--|--|---------------------------------|
| 10009 | Transaction refused | This transaction has already been fully refunded | |
| 10009 | Transaction refused | Account is restricted | |
| 10009 | Transaction refused | You can not refund this type of transaction | |
| 10009 | Transaction refused | You can not do a partial refund on this transaction | |
| 10009 | Transaction refused | The account for the counterparty is locked or inactive | |
| 10009 | Transaction refused | You can not refund this type of transaction | |
| 10011 | Invalid transaction id value | Transaction refused because of an invalid transaction id value | |
| 11001 | Transaction refused because of an invalid argument. See additional error messages for details. | Transaction class is not supported | |

Mass Pay API Errors

MassPay API Errors

| Error Code | Short Message | Long Message |
|------------|--|---|
| 10001 | Invalid account number. | The transaction failed as a result of an invalid credit card number. Check the number or attempt with another card. |
| 10001 | Internal Error | Internal Error |
| 10001 | Internal Error | The transaction could not be loaded |
| 10001 | ButtonSource value truncated. | The transaction could not be loaded |
| 10001 | Transaction refused because of an invalid argument. See additional error messages for details. | The masspay receiver_type is not a recognizable type |
| 10002 | Account locked | The user account is locked |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The number of input records is greater than maximum allowed |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The number of input records is less than or equal to zero |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The note string length exceeds the maximum limit of 4000 characters |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The amount is missing |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The currency is missing |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Currency is not supported |

| Error Code | Short Message | Long Message |
|------------|--|--|
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The amount is not a valid number |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The amount exceeds the max limit of a single mass pay item ~1 |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The amount is less than or equal to zero |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The unique id string length exceeds the maximum limit of 30 characters |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The unique id string contains a space as a character |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | The transaction id is not valid |
| 10007 | Permission denied | You do not have permissions to make this API call |
| 10301 | User not allowed | The user is not allowed to send money through Mass Pay |
| 10303 | Restricted account | Account is restricted |
| 10304 | Unconfirmed email | The user account has unconfirmed email |
| 10305 | Limit Exceeded | The user account needs to have its sending limit removed in order to make a mass payment. |
| 10306 | Limit Exceeded | The user's international account needs to have its sending limit removed in order to make a mass payment |
| 10307 | Receive only account | The user account is receive only and therefore cannot send payments out |
| 10308 | Masspay server configuration error | There is some configuration error |
| 10309 | Masspay server unavailable | The mass pay server is unavailable |
| 10310 | Unable to create payment | Unable to create payments for masspay |

| Error Code | Short Message | Long Message |
|------------|---------------------------|--|
| 10311 | Unable to submit payment | Unable to submit payments for masspay |
| 10312 | Masspay server error | The masspay server has reported errors |
| 10313 | Masspay Invalid Data | The masspay input file includes invalid data |
| 10314 | Masspay input parse error | The input to the masspay server is incorrect. Please make sure that you are using a correctly formatted input. |
| 10317 | Masspay Invalid Email | The masspay input file includes invalid Email |
| 10320 | Internal Error | Internal Error |
| 10321 | Insufficient funds | The account does not have sufficient funds to do this masspay |
| 10327 | Masspay Invalid UserID | The masspay input file includes invalid UserID |

Recurring Payments Errors

The following table lists errors for the following APIs that handle recurring payments profiles:

- CreateRecurringPaymentsProfile
- GetRecurringPaymentsProfileDetails
- ManageRecurringPaymentsProfileStatus
- UpdateRecurringPaymentsProfile
- BillOutstandingAmount

Recurring Payments Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|------------------------|---|---|
| 10001 | Invalid account number | The transaction failed as a result of invalid credit card number. Check the number or attempt with another credit card. | |
| 10478 | Invalid Data | Recurring payments profile description must be provided if the billing agreement type is recurring payments. | |
| 10501 | Invalid Configuration | This transaction cannot be processed due to an invalid merchant configuration. | Occurs when the billing agreement is disabled or inactive. |
| 10502 | Invalid Data | This transaction cannot be processed. Please use a valid credit card. | The credit card used is expired. |
| 10504 | Invalid Data | This transaction cannot be processed. Please enter a valid Credit Card Verification Number. | The CVV provided is invalid. The CVV is between 3-4 digits long. |
| 10505 | Gateway Decline | This transaction cannot be processed. | The transaction was refused because the AVS response returned the value of N, and the merchant account is not able to accept such transactions. |
| 10507 | Invalid Configuration | This transaction cannot be processed. Please contact PayPal Customer Service. | Your PayPal account is restricted - contact PayPal for more information. |
| 10508 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card expiration date. | The expiration date must be a two-digit month and four-digit year. |
| 10509 | Invalid Data | This transaction cannot be processed. | You must submit an IP address of the buyer with each API call. |
| 10510 | Invalid Data | The credit card type is not supported. Try another card type. | The credit card type entered is not currently supported by PayPal. |
| 10511 | Invalid Data | This transaction cannot be processed. | The merchant selected an value for the PaymentAction field that is not supported. |
| 10512 | Invalid Data | This transaction cannot be processed. Please enter a first name. | The first name of the buyer is required for this merchant. |

API Error Codes

Recurring Payments Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|------------------------------|--|---|
| 10513 | Invalid Data | This transaction cannot be processed. Please enter a last name. | The last name of the buyer is required for this merchant. |
| 10535 | Gateway decline | This transaction cannot be processed. Please enter a valid credit card number and type. | |
| 10548 | Invalid Configuration | This transaction cannot be processed. The merchant's account is not able to process transactions. | The merchant account attempting the transaction is not a business account at PayPal. Check your account settings. |
| 10550 | Invalid Configuration | This transaction cannot be processed. | Access to Direct Payment was disabled for your account. Contact PayPal for more information. |
| 10561 | Invalid Data | There's an error with this transaction. Please enter complete billing address. | |
| 10565 | Merchant country unsupported | The merchant country is not supported. | |
| 10709 | Invalid Data | There's an error with this transaction. Please enter an address1 in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10710 | Invalid Data | There's an error with this transaction. Please enter a city in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10711 | Invalid Data | There's an error with this transaction. Please enter your state in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10712 | Invalid Data | There's an error with this transaction. Please enter your five digit postal code in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10713 | Invalid Data | There's an error with this transaction. Please enter a country in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|--|
| 10744 | Invalid Data | This transaction cannot be processed. Please enter a valid country code in the billing address. | There was a problem with a particular field in the address. The long error message will tell you what field is invalid. |
| 10748 | Invalid Data | This transaction cannot be processed without a Credit Card Verification Number. | The merchant's configuration requires a CVV to be entered, but no CVV was provided with this transaction. Contact PayPal if you wish to change this setting. |
| 10751 | Invalid Data | There's an error with this transaction. Please enter a valid state in the billing address. | The merchant provided an address either in the United States or Canada, but the state provided is not a valid state in either country. |
| 10752 | Gateway Decline | This transaction cannot be processed. | The transaction was declined by the issuing bank, not PayPal. The merchant should attempt another card. |
| 10760 | Invalid Configuration | This transaction cannot be processed. The country listed for your business address is not currently supported. | The merchant's country of residence listed in their PayPal account is not currently supported to allow Direct Payment transactions. |
| 11089 | Transaction Refused. | Account is locked or inactive. | |
| 11501 | Invalid merchant country | The merchant's country is currently not supported | Missing token |
| 11502 | The token is missing or is invalid | The token is missing or is invalid | One or more subscription detail fields are missing from the request. |
| 11503 | Missing subscription details | Missing subscription details | One or more schedule detail fields are missing from the request. |
| 11504 | Missing schedule details | Missing schedule details | |
| 11505 | Start date should be greater than current date | Subscription start date should be greater than current date | |
| 11506 | Invalid max failed payments | Max failed payments, if supplied, must be ≥ 0 | |
| 11507 | Invalid trial amount | Trial amount must be ≥ 0 | |

API Error Codes

Recurring Payments Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|---|
| 11508 | Invalid trial total billing cycles | Trial total billing cycles must be > 0 | |
| 11509 | Invalid trial billing period | Trial billing period must be one of Day, Week, Month, SemiMonth, or Year | |
| 11510 | Invalid trial amount | Trial amount must be ≥ 0 | |
| 11511 | Invalid currency for trial amount | This currency is currently not supported for trial amount. | Currency must be USD. |
| 11512 | Invalid trial shipping amount | Trial shipping amount must be ≥ 0 | If a trial shipping amount is supplied, it must be ≥ 0 . |
| 11513 | Invalid currency for trial shipping amount | This currency is currently not supported for trial shipping amount | Currency must be USD. |
| 11514 | Invalid profile status | The profile status is invalid. | |
| 11515 | Invalid currency for trial tax amount | This currency is currently not supported for trial tax amount | Currency must be USD. |
| 11516 | Invalid billing frequency | Billing Frequency must be > 0 and be less than or equal to one year | The combination of billing frequency and billing period cannot exceed one year. |
| 11517 | Invalid total billing cycles | Total billing cycles must be ≥ 0 (0 means continuous) | |
| 11518 | Invalid billing period | Billing period must be one of Day, Week, Month, SemiMonth, or Year | |
| 11519 | Invalid amount | Bill amount must be greater than 0 | |
| 11520 | Invalid currency for amount | This currency is currently not supported for amount | Currency must be USD. |
| 11521 | Invalid shipping amount | Shipping amount must be ≥ 0 | |
| 11522 | Invalid currency for shipping amount | This currency is currently not supported for shipping amount | Currency must be USD. |
| 11523 | Invalid tax amount | Tax amount must be ≥ 0 | |
| 11524 | Invalid currency for tax amount | This currency is currently not supported for tax amount | Currency must be USD. |
| 11531 | Invalid profile status | The profile status must be one of (A)ctive, (C)ancelled, or e(X)pired | |
| 11543 | Invalid payer country | The payer's country is currently not supported | |

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|------------------------|
| 11544 | Invalid period status | The trial period status must be one of (A)ctive or (C)ancelled | |
| 11545 | Denied | Payer's account is denied | |
| 11546 | Denied | Merchant account is denied | |
| 11547 | This feature is not available at this time | Recurring payments feature is not currently available; try again later | |
| 11548 | Invalid currency code | Invalid currency code, all currency codes must match | |
| 11549 | Start Date is required | Subscription start date is required | |
| 11550 | Start Date should be valid | Subscription start date should be valid | |
| 11551 | Profile ID is missing from the request | Profile ID is missing from the request | |
| 11552 | Invalid profile ID | The profile ID is invalid | |
| 11553 | Invalid action value provided | Invalid action value provided | |
| 11554 | Note is missing from the request | Note is missing from the request | |
| 11555 | | | |
| 11556 | Invalid profile status for cancel action; profile should be active or suspended | Invalid profile status for suspend action; profile should be active | |
| 11557 | Invalid profile status for suspend action; profile should be active | Invalid profile status for reactivate action; profile should be suspended | |
| 11558 | Invalid profile status for reactivate action; profile should be suspended | The activation type is invalid | |
| 11560 | Invalid activation type | The activation type is invalid | |
| 11561 | Invalid initial amount | The initial amount is invalid | |
| 11562 | Invalid auto bill type | The auto bill type is invalid | |
| 11564 | The number of failed payments should be greater than the current number of failed payments | The number of failed payments should be greater than the current number of failed payments | |

API Error Codes

Recurring Payments Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|------------------------|
| 11567 | The time of the update is too close to the billing date | The time of the update is too close to the billing date | |
| 11568 | Invalid currency for delinquent amount | Invalid currency for delinquent amount | |
| 11569 | Cannot increase delinquent amount | Cannot increase delinquent amount | |
| 11570 | The maximum number of failed payments should be greater than the current number of failed payments | The maximum number of failed payments should be greater than the current number of failed payments | |
| 11571 | The total amount cannot exceed 120% increment per 180 days | The total amount cannot exceed 120% increment per 180 days | |
| 11576 | Bill amount is greater than outstanding balance | Bill amount is greater than outstanding balance | |
| 11577 | Another outstanding payment is scheduled | Another outstanding payment is scheduled | |
| 11578 | Bill outstanding amount not processed because of scheduled payment | Recurring payment scheduled within 24 hours, so we are not processing the bill outstanding amount | |
| 11579 | Payment is failing | Payment is failing | |
| 11581 | Invalid Data | Profile description is invalid. | |
| 11582 | No payment in queue | No scheduled payment has been found. | |
| 11583 | DPRP feature is unavailable | DPRP feature is unavailable | |
| 11584 | Inactive profile | Profile is not active | |
| 11585 | Missing Token or buyer credit card | Missing token or payment source | |
| 11586 | DPRP is disabled | DPRP is disabled for this merchant. | |
| 11587 | Billing Address is Partial | Billing Address is Partial | |
| 11590 | Profile update is not required | Based on your input request, profile already up to date. | |
| 15004 | Gateway Decline | This transaction cannot be processed. Please enter a valid Credit Card Verification Number. | |

SetCustomerBillingAgreement Errors

SetCustomerBillingAgreement Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|---|--|
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid argument; BillingType input field is set to None | |
| 10404 | Transaction refused because of an invalid argument. See additional error messages for details. | ReturnURL is missing. | ReturnURL tag has no content |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid value for request billing address parameter. | |
| 10405 | Transaction refused because of an invalid argument. See additional error messages for details. | CancelURL is missing. | CancelURL tag has no content |
| 10407 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid buyer email address (BuyerEmail). | Invalid BuyerEmail (badly formatted or violates SMTP protocol defined email address format) or BuyerEmail is passed as an empty tag. |
| 10436 | Transaction refused because of an invalid argument. See additional error messages for details. | PageStyle value exceeds maximum allowable length. | PageStyle tag is too long |
| 10437 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-header-image value exceeds maximum allowable length. | cpp_header_image tag is too long; maximum length is 127 |
| 10438 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-header-border-color value exceeds maximum allowable length. | cpp_header_border_color tag is too long; maximum length is 6 |
| 10439 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-header-back-color value exceeds maximum allowable length. | cpp_header_back_color tag is too long; maximum length is 6 |

API Error Codes

SetCustomerBillingAgreement Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|--|
| 10440 | Transaction refused because of an invalid argument. See additional error messages for details. | cpp-payflow-color value exceeds maximum allowable length. | cpp_payflow_color tag is too long; maximum length is 6 |
| 10471 | Transaction refused because of an invalid argument. See additional error messages for details. | ReturnURL is invalid. | ReturnURL tag contains invalid URL |
| 10472 | Transaction refused because of an invalid argument. See additional error messages for details. | CancelURL is invalid. | CancelURL tag contains invalid URL |
| 10476 | Transaction refused because of an invalid argument. See additional error messages for details. | | |
| 10477 | Transaction refused because of an invalid argument. See additional error messages for details. | | |
| 11452 | Merchant not enabled for reference transactions | Merchant not enabled for reference transactions | This merchant is not enabled for Mark reference transaction. Warning only |
| 11453 | Reference transactions temporarily unavailable. | Reference transaction feature not currently available; try again later | Feature not enabled because system is running in standin mode. Warning only |
| 11601 | Request for billing address failed | Billing address request is not enabled for merchant | |
| 11602 | Request for billing address failed | Feature not yet available | |

GetBillingAgreementCustomerDetails Errors

GetBillingAgreementCustomerDetails Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|---------------------------------------|
| 10408 | Missing token | Token is missing | Token is missing |
| 10409 | You're not authorized to access this info. | Express Checkout token was issued for a merchant account other than yours. | Token belongs to a different merchant |
| 10410 | Invalid token | Invalid token | Token invalid |
| 10411 | This Express Checkout session has expired. | This Express Checkout session has expired. Token value is no longer valid. | Token expired |

CreateBillingAgreement Errors

CreateBillingAgreement Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|---|--|---|
| 10408 | Missing token | Token is missing | Token is missing |
| 10409 | You're not authorized to access this info. | Express Checkout token was issued for a merchant account other than yours. | Token belongs to a different merchant |
| 10410 | Invalid token | Invalid token | Token invalid |
| 10411 | This Express Checkout session has expired. | This Express Checkout session has expired. Token value is no longer valid. | Token expired |
| 11455 | Buyer did not accept billing agreement | Buyer did not accept billing agreement | Buyer has not agreed to the billing agreement. |
| 11456 | A successful Billing Agreement has already been created for this token. | Transaction refused because of an invalid argument. See additional error messages for details. | Token has already been used to create a billing agreement |
| 10408 | Missing token | Token is missing | Token is missing |
| 10409 | You're not authorized to access this info. | Express Checkout token was issued for a merchant account other than yours. | Token belongs to a different merchant |
| 10410 | Invalid token | Invalid token | Token invalid |

API Error Codes

CreateBillingAgreement Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|------------------------|
| 10411 | This Express Checkout session has expired. | This Express Checkout session has expired. Token value is no longer valid. | Token expired |

UpdateBillingAgreement Errors

UpdateBillingAgreement Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|---|---|
| 10001 | Internal Error | Internal Error | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid argument; description field or custom field is empty and the status is active | Check the description and custom fields of the billing agreement. Either the description or custom field is empty and the status is active or the contents of one of these fields exceeds the maximum field length. |
| 10201 | Billing Agreement was cancelled | Billing Agreement was cancelled | Billing agreement has been cancelled |
| 10204 | User's account is closed or restricted | User's account is closed or restricted | |
| 10209 | Disabled | Preapproved Payments not enabled. | Merchant pull is not enabled for the country or merchant is not enabled for merchant pull |
| 10209 | Disabled | Preapproved Payments not enabled. | Account number mismatch for the API caller and the account the billing agreement belongs to. |
| 10211 | Invalid billing agreement ID | Invalid transaction or billing agreement ID; could not find Billing Agreement in database | |
| 11451 | Billing Agreement Id or transaction Id is not valid | Billing Agreement Id or transaction Id is not valid | ReferenceID field is empty. |
| 11451 | Billing Agreement Id or transaction Id is not valid | Billing Agreement Id or transaction Id is not valid | Reference id refers to an invalid transaction. |
| 11452 | Merchant not enabled for reference transactions | Merchant not enabled for reference transactions | This merchant is not enabled for Mark reference transaction |

DoReferenceTransaction Errors

All Reference Transactions-Related API Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|----------------|----------------|------------------------|
| 10001 | Internal Error | Internal Error | |

API Error Codes

DoReferenceTransaction Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|--|
| 10002 | Authentication/Authorization Failed | | |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid payment type argument | |
| 10009 | Transaction refused | The account for the counterparty is locked or inactive | Merchant is locked/close/restricted |
| 10010 | Invalid Invoice | Non-ASCII invoice id is not supported | Non-ASCII characters are used in InvoiceID field |
| 10201 | Agreement canceled | Billing Agreement was cancelled | Billing agreement is not active |
| 10202 | Exceed max | Transaction would exceed user's monthly maximum | Transaction would exceed the monthly limit |
| 10203 | Action required | Transaction failed, action required by user | |
| 10204 | User's account is closed or restricted | User's account is closed or restricted | |
| 10205 | Risk | Transaction refused due to risk model | |
| 10206 | Duplicate | Transaction was already processed | |
| 10207 | Retry | Transaction failed but user has alternate funding source | Retry the transaction with an alternate funding source. |
| 10209 | Disabled | Preapproved Payments not enabled. | Merchants is not enabled for preapproved payments (PAP); applies only to legacy PAP billing agreements |
| 10210 | No Funding | Transaction failed because has no funding sources | Payee has no funding sources. |
| 10211 | | Invalid MP ID | Invalid MP ID |
| 10212 | Profile preference setting | A profile preference is set to automatically deny certain transactions | A profile preference is set that automatically denies this kind of transaction |
| 10213 | Invalid Soft Descriptor | The soft descriptor passed in contains invalid characters | |
| 10214 | | | Soft descriptor format error. |
| 10215 | Soft Descriptor truncated | The soft descriptor was truncated | |

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|---|--|
| 10216 | | | Transaction refused because a confirmed address is not available |
| 10400 | Transaction refused because of an invalid argument. See additional error messages for details. | Order total is missing. | TotalOrder amount is missing |
| 10401 | Transaction refused because of an invalid argument. See additional error messages for details. | Order total is invalid. | TotalOrder amount is invalid |
| 10402 | Authorization only is not allowed for merchant. | This merchant account is not permitted to set PaymentAction? to Authorization. Please contact Customer Service. | Merchant is not eligible for auth settlement |
| 10406 | Transaction refused because of an invalid argument. See additional error messages for details. | The PayerID? value is invalid. | Merchant account number is invalid |
| 10412 | Duplicate invoice | Payment has already been made for this InvoiceID?. | Payment already made for the invoice |
| 10413 | Transaction refused because of an invalid argument. See additional error messages for details. | The totals of the cart item amounts do not match order amounts. | Total of cart items does not match order total |
| 10414 | Transaction refused because of an invalid argument. See additional error messages for details. | The amount exceeds the maximum amount for a single transaction. | Amount exceeds the max amount for a single txn |
| 10417 | Transaction cannot complete. | The transaction cannot complete successfully. Instruct the customer to use an alternative payment method. | Account not associated with a usable funding source |
| 10417 | Transaction cannot complete. | The transaction cannot complete successfully. Instruct the customer to use an alternative payment method. | Credit card or Billing Agreement is required to complete payment |
| 10418 | Transaction refused because of an invalid argument. See additional error messages for details. | The currencies of the shopping cart amounts must be the same. | Currencies in the shopping cart must be the same |

API Error Codes

DoReferenceTransaction Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|---|---|
| 10420 | Transaction refused because of an invalid argument. See additional error messages for details. | PaymentAction? tag is missing. | PaymentAction? tag is missing. |
| 10426 | Transaction refused because of an invalid argument. See additional error messages for details. | Item total is invalid. | ItemTotal amount is invalid. |
| 10427 | Transaction refused because of an invalid argument. See additional error messages for details. | Shipping total is invalid. | ShippingTotal amount is invalid. |
| 10428 | Transaction refused because of an invalid argument. See additional error messages for details. | Handling total is invalid. | HandlingTotal amount is invalid |
| 10429 | Transaction refused because of an invalid argument. See additional error messages for details. | Tax total is invalid. | TaxTotal amount is invalid. |
| 10429 | Transaction refused because of an invalid argument. See additional error messages for details. | Item sales tax is invalid | PaymentDetailsItem.Tax field is invalid. Warning only; API executes |
| 10430 | Transaction refused because of an invalid argument. See additional error messages for details. | Item amount is missing. | PaymentDetailsItem.Amount field is missing. Warning only; API executes |
| 10431 | Transaction refused because of an invalid argument. See additional error messages for details. | Item amount is invalid. | PaymentDetailsItem.Amount field is invalid. Warning only; API executes |
| 10432 | Transaction refused because of an invalid argument. See additional error messages for details. | Invoice ID value exceeds maximum allowable length. | InvoiceID field is too long; maximum length is 256 |
| 10433 | Transaction refused because of an invalid argument. See additional error messages for details. | Value of OrderDescription element has been truncated. | OrderDescription field is too long; maximum length is 127. Warning only; API executes |

| Error Code | Short Message | Long Message | Additional Information |
|------------|--|--|--|
| 10434 | Transaction refused because of an invalid argument. See additional error messages for details. | Value of Custom element has been truncated. | Custom field is too long; maximum length is 256. Warning only; API executes |
| 10441 | Transaction refused because of an invalid argument. See additional error messages for details. | The NotifyURL element value exceeds maximum allowable length. | NotifyURL field is too long; maximum length for notify URL is 2048 |
| 10442 | ButtonSource value truncated. | The ButtonSource element value exceeds maximum allowable length. | ButtonSource field is too long; maximum length is 32. Warning only; API executes |
| 10504 | The cvv2 is invalid. | This transaction cannot be processed. Please enter a valid Credit Card Verification Number. | CVV2 field is invalid. |
| 10527 | Invalid Data | This transaction cannot be processed. Please enter a valid credit card number and type. | CreditCardNumber and/or CreditCardType is invalid |
| 10537 | Risk Control Country Filter Failure | The transaction was refused because the country was prohibited as a result of your Country Monitor Risk Control Settings. | Transaction refused due to country monitor risk control |
| 10538 | Risk Control Max Amount Failure | The transaction was refused because the maximum amount was excused as a result of your Maximum Amount Risk Control Settings. | Transaction refused due to max amount risk control |
| 10539 | Payment declined by your Risk Controls settings: PayPal Risk Model. | Payment declined by your Risk Controls settings: PayPal Risk Model. | Transaction declined by Risk Control settings: PayPal Risk model |
| 10546 | Gateway Decline | This transaction cannot be processed. | IP fraud models failed. |
| 10560 | Invalid Data | The issue number of the credit card is invalid. | IssueNumber is invalid. |
| 10567 | Invalid Data | A Start Date or Issue Number is required. | None of Start date or issue number is specified (only applies to Switch and Solo credit cards) |
| 10600 | Authorization voided | Authorization voided. | |
| 10601 | Authorization expired. | Authorization has expired | |
| 10621 | Order has expired. | Order has expired. | |

API Error Codes

DoReferenceTransaction Errors

| Error Code | Short Message | Long Message | Additional Information |
|------------|---|---|---|
| 10622 | Order is voided. | Order is voided. | |
| 10623 | Maximum number of authorization allowed for the order is reached. | Maximum number of authorization allowed for the order is reached. | |
| 10725 | Shipping Address Country Error | There was an error in the Shipping Address Country field | Shipping address error in country field |
| 10727 | Shipping Address1 Empty | The field Shipping Address1 is required | Shipping address error in address1 field |
| 10728 | Shipping Address City Empty | The field Shipping Address City is required | Shipping address error in city field |
| 10729 | Shipping Address State Empty | The field Shipping Address State is required | Shipping address error in state field |
| 10730 | Shipping Address Postal Code Empty | The field Shipping Address Postal Code is required | Shipping address error in postal code |
| 10731 | Shipping Address Country Empty | The field Shipping Address Country is required | Country code is empty in shipping address |
| 10736 | Shipping Address Invalid City State Postal Code | A match of the Shipping Address City, State, and Postal Code failed. | Match of shipping address, city, state, and postal code failed. |
| 10747 | Invalid Data | This transaction cannot be processed without a valid IP address. | IPAddress field is invalid. |
| 10748 | Invalid Data | This transaction cannot be processed without a Credit Card Verification number. | CVV2 field is missing. |
| 10755 | Unsupported Currency. | This transaction cannot be processed due to an unsupported currency. | |
| 11302 | Cannot pay self | The transaction was refused because you cannot send money to yourself. | Cannot pay self. Merchant is referencing own transaction. |
| 11451 | Billing Agreement Id or transaction Id is not valid | Billing Agreement Id or transaction Id is not valid | Invalid reference id |
| 11451 | Billing Agreement Id or transaction Id is not valid | Billing Agreement Id or transaction Id is not valid | Reference transaction is not associated with a billing agreement. |
| 11451 | Billing Agreement Id or transaction Id is not valid | Billing Agreement Id or transaction Id is not valid | Reference id either not found or could not be decrypted |

| Error Code | Short Message | Long Message | Additional Information |
|------------|---|---|---|
| 11451 | Billing Agreement Id or transaction Id is not valid | Billing Agreement Id or transaction Id is not valid | Reference id either not found or could not be decrypted |
| 11452 | Merchant not enabled for reference transactions | Merchant not enabled for reference transactions | This merchant is not enabled for Mark reference transaction |
| 11453 | Reference transactions temporarily unavailable. | Reference transaction feature not currently available; try again later | Feature wired off |
| 11453 | Reference transactions temporarily unavailable. | Reference transaction feature not currently available; try again later | Feature not supported in standin |
| 11454 | Warning: Could not send email to the buyer | Warning: Could not send email to the buyer | Failed to send email to buyer. This error is not fatal and generates a warning. |
| 11459 | Invalid Data | The shipping address must match the user's address in the PayPal account. | The shipping address on file does not match the requested shipping address. |
| 11610 | Payment Pending your review in Fraud Management Filters | Payment Pending your review in Fraud Management Filters | |
| 11611 | Transaction blocked by your settings in FMF | Transaction blocked by your settings in FMF | |
| 11612 | Could not process your request to accept/deny the transaction | Could not process your request to accept/deny the transaction | |
| 18014 | Gateway Decline | This transaction cannot be processed. | This transaction cannot be processed without a Credit Card Verification number. |

AddressVerify API Errors

AddressVerify API Errors

| Error Code | Short Message | Long Message |
|------------|--|---------------------------------------|
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid email format |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid street format |
| 10004 | Transaction refused because of an invalid argument. See additional error messages for details. | Invalid zip format |
| 10009 | The API is disabled. | The Address API is currently disabled |

ManagePendingTransactionStatus API Errors

ManagePendingTransactionStatus API Errors

| Error Code | Short Message | Long Message |
|------------|---|---|
| 11614 | Could not process your request to accept/deny the transaction | Could not process your request to accept/deny the transaction |
| 11614 | The transaction has already been Accepted/Denied and the status cannot be changed | The transaction has already been Accepted/Denied and the status cannot be changed |

B

Country Codes

Country Codes

| Country | Code |
|---------------------|------|
| AFGHANISTAN | AF |
| ÅLAND ISLANDS | AX |
| ALBANIA | AL |
| ALGERIA | DZ |
| AMERICAN SAMOA | AS |
| ANDORRA | AD |
| ANGOLA | AO |
| ANGUILLA | AI |
| ANTARCTICA | AQ |
| ANTIGUA AND BARBUDA | AG |
| ARGENTINA | AR |
| ARMENIA | AM |
| ARUBA | AW |
| AUSTRALIA | AU |
| AUSTRIA | AT |
| AZERBAIJAN | AZ |
| BAHAMAS | BS |
| BAHRAIN | BH |
| BANGLADESH | BD |
| BARBADOS | BB |
| BELARUS | BY |
| BELGIUM | BE |
| BELIZE | BZ |
| BENIN | BJ |
| BERMUDA | BM |

| Country | Code |
|---------------------------------------|-------------|
| BHUTAN | BT |
| BOLIVIA | BO |
| BOSNIA AND HERZEGOVINA | BA |
| BOTSWANA | BW |
| BOUVENT ISLAND | BV |
| BRAZIL | BR |
| BRITISH INDIAN OCEAN TERRITORY | IO |
| BRUNEI DARUSSALAM | BN |
| BULGARIA | BG |
| BURKINA FASO | BF |
| BURUNDI | BI |
| CAMBODIA | KH |
| CAMEROON | CM |
| CANADA | CA |
| CAPE VERDE | CV |
| CAYMAN ISLANDS | KY |
| CENTRAL AFRICAN REPUBLIC | CF |
| CHAD | TD |
| CHILE | CL |
| CHINA | CN |
| CHRISTMAS ISLAND | CX |
| COCOS (KEELING) ISLANDS | CC |
| COLOMBIA | CO |
| COMOROS | KM |
| CONGO | CG |
| CONGO, THE DEMOCRATIC REPUBLIC OF THE | CD |
| COOK ISLANDS | CK |
| COSTA RICA | CR |
| COTE D'IVOIRE | CI |

| Country | Code |
|-----------------------------|-------------|
| CROATIA | HR |
| CUBA | CU |
| CYPRUS | CY |
| CZECH REPUBLIC | CZ |
| DENMARK | DK |
| DJIBOUTI | DJ |
| DOMINICA | DM |
| DOMINICAN REPUBLIC | DO |
| ECUADOR | EC |
| EGYPT | EG |
| EL SALVADOR | SV |
| EQUATORIAL GUINEA | GQ |
| ERITREA | ER |
| ESTONIA | EE |
| ETHIOPIA | ET |
| FALKLAND ISLANDS (MALVINAS) | FK |
| FAROE ISLANDS | FO |
| FIJI | FJ |
| FINLAND | FI |
| FRANCE | FR |
| FRENCH GUIANA | GF |
| FRENCH POLYNESIA | PF |
| FRENCH SOUTHERN TERRITORIES | TF |
| GABON | GA |
| GAMBIA | GM |
| GEORGIA | GE |
| GERMANY | DE |
| GHANA | GH |
| GIBRALTAR | GI |

| Country | Code |
|-----------------------------------|-------------|
| GREECE | GR |
| GREENLAND | GL |
| GRENADA | GD |
| GUADELOUPE | GP |
| GUAM | GU |
| GUATEMALA | GT |
| GUERNSEY | GG |
| GUINEA | GN |
| GUINEA-BISSAU | GW |
| GUYANA | GY |
| HAITI | HT |
| HEARD ISLAND AND MCDONALD ISLANDS | HM |
| HOLY SEE (VATICAN CITY STATE) | VA |
| HONDURAS | HN |
| HONG KONG | HK |
| HUNGARY | HU |
| ICELAND | IS |
| INDIA | IN |
| INDONESIA | ID |
| IRAN, ISLAMIC REPUBLIC OF | IR |
| IRAQ | IQ |
| IRELAND | IE |
| ISLE OF MAN | IM |
| ISRAEL | IL |
| ITALY | IT |
| JAMAICA | JM |
| JAPAN | JP |
| JERSEY | JE |
| JORDAN | JO |

| Country | Code |
|--|-------------|
| KAZAKHSTAN | KZ |
| KENYA | KE |
| KIRIBATI | KI |
| KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF | KP |
| KOREA, REPUBLIC OF | KR |
| KUWAIT | KW |
| KYRGYZSTAN | KG |
| LAO PEOPLE'S DEMOCRATIC REPUBLIC | LA |
| LATVIA | LV |
| LEBANON | LB |
| LESOTHO | LS |
| LIBERIA | LR |
| LIBYAN ARAB JAMAHIRIYA | LY |
| LIECHTENSTEIN | LI |
| LITHUANIA | LT |
| LUXEMBOURG | LU |
| MACAO | MO |
| MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF | MK |
| MADAGASCAR | MG |
| MALAWI | MW |
| MALAYSIA | MY |
| MALDIVES | MV |
| MALI | ML |
| MALTA | MT |
| MARSHALL ISLANDS | MH |
| MARTINIQUE | MQ |
| MAURITANIA | MR |
| MAURITIUS | MU |
| MAYOTTE | YT |

| Country | Code |
|---------------------------------|-------------|
| MEXICO | MX |
| MICRONESIA, FEDERATED STATES OF | FM |
| MOLDOVA, REPUBLIC OF | MD |
| MONACO | MC |
| MONGOLIA | MN |
| MONTSERRAT | MS |
| MOROCCO | MA |
| MOZAMBIQUE | MZ |
| MYANMAR | MM |
| NAMIBIA | NA |
| NAURU | NR |
| NEPAL | NP |
| NETHERLANDS | NL |
| NETHERLANDS ANTILLES | AN |
| NEW CALEDONIA | NC |
| NEW ZEALAND | NZ |
| NICARAGUA | NI |
| NIGER | NE |
| NIGERIA | NG |
| NIUE | NU |
| NORFOLK ISLAND | NF |
| NORTHERN MARIANA ISLANDS | MP |
| NORWAY | NO |
| OMAN | OM |
| PAKISTAN | PK |
| PALAU | PW |
| PALESTINIAN TERRITORY, OCCUPIED | PS |
| PANAMA | PA |
| PAPUA NEW GUINEA | PG |

| Country | Code |
|----------------------------------|-------------|
| PARAGUAY | PY |
| PERU | PE |
| PHILIPPINES | PH |
| PITCAIRN | PN |
| POLAND | PL |
| PORTUGAL | PT |
| PUERTO RICO | PR |
| QATAR | QA |
| REUNION | RE |
| ROMANIA | RO |
| RUSSIAN FEDERATION | RU |
| RWANDA | RW |
| SAINT HELENA | SH |
| SAINT KITTS AND NEVIS | KN |
| SAINT LUCIA | LC |
| SAINT PIERRE AND MIQUELON | PM |
| SAINT VINCENT AND THE GRENADINES | VC |
| SAMOA | WS |
| SAN MARINO | SM |
| SAO TOME AND PRINCIPE | ST |
| SAUDI ARABIA | SA |
| SENEGAL | SN |
| SERBIA AND MONTENEGRO | CS |
| SEYCHELLES | SC |
| SIERRA LEONE | SL |
| SINGAPORE | SG |
| SLOVAKIA | SK |
| SLOVENIA | SI |
| SOLOMON ISLANDS | SB |

| Country | Code |
|--|-------------|
| SOMALIA | SO |
| SOUTH AFRICA | ZA |
| SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS | GS |
| SPAIN | ES |
| SRI LANKA | LK |
| SUDAN | SD |
| SURINAME | SR |
| SVALBARD AND JAN MAYEN | SJ |
| SWAZILAND | SZ |
| SWEDEN | SE |
| SWITZERLAND | CH |
| SYRIAN ARAB REPUBLIC | SY |
| TAIWAN, PROVINCE OF CHINA | TW |
| TAJIKISTAN | TJ |
| TANZANIA, UNITED REPUBLIC OF | TZ |
| THAILAND | TH |
| TIMOR-LESTE | TL |
| TOGO | TG |
| TOKELAU | TK |
| TONGA | TO |
| TRINIDAD AND TOBAGO | TT |
| TUNISIA | TN |
| TURKEY | TR |
| TURKMENISTAN | TM |
| TURKS AND CAICOS ISLANDS | TC |
| TUVALU | TV |
| UGANDA | UG |
| UKRAINE | UA |
| UNITED ARAB EMIRATES | AE |

| Country | Code |
|--------------------------------------|------|
| UNITED KINGDOM | GB |
| UNITED STATES | US |
| UNITED STATES MINOR OUTLYING ISLANDS | UM |
| URUGUAY | UY |
| UZBEKISTAN | UZ |
| VANUATU | VU |
| VENEZUELA | VE |
| VIET NAM | VN |
| VIRGIN ISLANDS, BRITISH | VG |
| VIRGIN ISLANDS, U.S. | VI |
| WALLIS AND FUTUNA | WF |
| WESTERN SAHARA | EH |
| YEMEN | YE |
| ZAMBIA | ZM |
| ZIMBABWE | ZW |

C

State and Province Codes

State and Province Codes

| Canadian Province or U.S. State | Abbreviation |
|---------------------------------|--------------|
| Alberta | AB |
| British Columbia | BC |
| Manitoba | MB |
| New Brunswick | NB |
| Newfoundland and Labrador | NL |
| Northwest Territories | NT |
| Nova Scotia | NS |
| Nunavut | NU |
| Ontario | ON |
| Prince Edward Island | PE |
| Quebec | QC |
| Saskatchewan | SK |
| Yukon | YT |
| Alabama | AL |
| Alaska | AK |
| American Samoa | AS |
| Arizona | AZ |
| Arkansas | AR |
| California | CA |
| Colorado | CO |
| Connecticut | CT |
| Delaware | DE |
| District of Columbia | DC |
| Federated States of Micronesia | FM |
| Florida | FL |

| Canadian Province or U.S. State | Abbreviation |
|---------------------------------|--------------|
| Georgia | GA |
| Guam | GU |
| Hawaii | HI |
| Idaho | ID |
| Illinois | IL |
| Indiana | IN |
| Iowa | IA |
| Kansas | KS |
| Kentucky | KY |
| Louisiana | LA |
| Maine | ME |
| Marshall Islands | MH |
| Maryland | MD |
| Massachusetts | MA |
| Michigan | MI |
| Minnesota | MN |
| Mississippi | MS |
| Missouri | MO |
| Montana | MT |
| Nebraska | NE |
| Nevada | NV |
| New Hampshire | NH |
| New Jersey | NJ |
| New Mexico | NM |
| New York | NY |
| North Carolina | NC |
| North Dakota | ND |
| Northern Mariana Islands | MP |
| Ohio | OH |

| Canadian Province or U.S. State | Abbreviation |
|---------------------------------|--------------|
| Oklahoma | OK |
| Oregon | OR |
| Palau | PW |
| Pennsylvania | PA |
| Puerto Rico | PR |
| Rhode Island | RI |
| South Carolina | SC |
| South Dakota | SD |
| Tennessee | TN |
| Texas | TX |
| Utah | UT |
| Vermont | VT |
| Virgin Islands | VI |
| Virginia | VA |
| Washington | WA |
| West Virginia | WV |
| Wisconsin | WI |
| Wyoming | WY |
| Armed Forces Americas | AA |
| Armed Forces | AE |
| Armed Forces Pacific | AP |

D

Currency Codes

PayPal-Supported Currencies and Currency Codes

| Currency | ISO-4217 Code |
|--------------------|---------------|
| Australian Dollar | AUD |
| Canadian Dollar | CAD |
| Czech Koruna | CZK |
| Danish Krone | DKK |
| Euro | EUR |
| Hong Kong Dollar | HKD |
| Hungarian Forint | HUF |
| Israeli New Sheqel | ILS |
| Japanese Yen | JPY |
| Mexican Peso | MXN |
| Norwegian Krone | NOK |
| New Zealand Dollar | NZD |
| Polish Zloty | PLN |
| Pound Sterling | GBP |
| Singapore Dollar | SGD |
| Swedish Krona | SEK |
| Swiss Franc | CHF |
| U.S. Dollar | USD |



AVS and CVV2 Response Codes

- “AVS Response Codes” on page 273
- “CVV2 Response Codes” on page 275

AVS Response Codes

- AVS Response Codes for Visa, Mastercard, Discover, and American Express
- AVS Response Codes for Maestro and Solo

AVS and CVV2 Response Codes

AVS Response Codes

AVS Response Codes for Visa, MasterCard, Discover, and American Express

| AVS Code | Meaning | Matched Details |
|------------|---|---|
| A | Address | Address only (no ZIP) |
| B | International "A" | Address only (no ZIP) |
| C | International "N" | None NOTE: The transaction is declined. |
| D | International "X" | Address and Postal Code |
| E | Not allowed for MOTO (Internet/Phone) transactions | Not applicable NOTE: The transaction is declined. |
| F | UK-specific "X" | Address and Postal Code |
| G | Global Unavailable | Not applicable |
| I | International Unavailable | Not applicable |
| N | No | None NOTE: The transaction is declined. |
| P | Postal (International "Z") | Postal Code only (no Address) |
| R | Retry | Not applicable |
| S | Service not Supported | Not applicable |
| U | Unavailable | Not applicable |
| W | Whole ZIP | Nine-digit ZIP code (no Address) |
| X | Exact match | Address and nine-digit ZIP code |
| Y | Yes | Address and five-digit ZIP |
| Z | ZIP | Five-digit ZIP code (no Address) |
| All others | Error | Not applicable |

AVS Response Codes for Maestro and Solo

| AVS Code | Meaning | Matched Details |
|----------|--|---|
| 0 | All the address information matched. | All information matched |
| 1 | None of the address information matched. | None NOTE: The transaction is declined. |
| 2 | Part of the address information matched. | Partial |
| 3 | The merchant did not provide AVS information. Not processed. | Not applicable |

| AVS Code | Meaning | Matched Details |
|----------|--|-----------------|
| 4 | Address not checked, or acquirer had no response. Service not available. | Not applicable |
| Null | No AVS response was obtained. Default value of field. | Not applicable |

CVV2 Response Codes

- CVV2 Response Codes for Visa, MasterCard, Discover, and American Express
- CVV2 Response Codes for Maestro and Solo

CVV2 Response Codes for Visa, MasterCard, Discover, and American Express

| CVV2 Code | Meaning | Matched Details |
|-----------|-----------------------|-----------------|
| M | Match | CVV2CSC |
| N | No match | None |
| P | Not processed | Not applicable |
| S | Service not supported | Not applicable |
| U | Service not available | Not applicable |
| X | No response | Not applicable |

CVV2 Response Codes for Maestro and Solo

| CVV2 Code | Meaning | Matched Details |
|------------|---|-----------------|
| 0 | Matched | CVV2 |
| 1 | No match | None |
| 2 | The merchant has not implemented CVV2 code handling | Not applicable |
| 3 | Merchant has indicated that CVV2 is not present on card | Not applicable |
| 4 | Service not available | Not applicable |
| All others | Error | Not applicable |