

Express Checkout Integration Guide

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A usage Professional Uniquement Disponible en Anglais uniquement pour l'instant.

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Express Checkout Integration Guide
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Preface

This document describes Express Checkout integration.

Intended Audience

This document is intended for merchants implementing Express Checkout.

Revision History

Revision history for Express Checkout Integration Guide.

TABLE 1.1

Date	Description	
11/13/2008	Added information about integrating dynamic images and added information about order details that can be displayed on the PayPal Review page.	
06/30/2008	Complete revision.	

1

Introducing Express Checkout

Express Checkout is PayPal's premier checkout solution, which streamlines the checkout process for buyers and keeps them on the merchant's site after making a purchase.

- The Express Checkout Experience
- Getting Started
- Express Checkout Flow
- Express Checkout Building Blocks

The Express Checkout Experience

Express Checkout makes it easier for your customers to pay and allows you to accept PayPal while retaining control of the buyer and overall checkout flow.

Consider your buyer's experience before implementing Express Checkout. A generic flow probably has the following sequence of pages:

A generic checkout flow



In a typical checkout flow, the buyer

- 1. Checks out from the shopping cart page
- 2. Provides shipping information
- 3. Chooses a payment option and provides billing and payment information
- **4.** Reviews the order and pays
- **5.** Receives an order confirmation

In an Express Checkout flow, a buyer still checks out at the beginning of the flow and pays on your site; however, the buyer does not reenter shipping, billing, or payment information, because it is already available from PayPal. This simplifies and expedites the checkout process. The buyer can then proceed to review the order on your site. You can include other necessary checkout steps. You can also up-sell to the buyer on your Review Order page.

The following diagram shows the Express Checkout flow:

Express Checkout Flow



In the Express Checkout flow, the buyer

- 1. Chooses Express Checkout by clicking the Check out with PayPal button
- 2. Logs into PayPal to authenticate his or her identity
- **3.** Reviews the transaction on PayPal
- 4. Confirms the order and pays from your site
- 5. Receives an order confirmation

Getting Started

You can implement Express Checkout in just four steps.

- 1. Place PayPal checkout buttons and PayPal payment mark images in your checkout flow.
- 2. For each PayPal button that you place, modify your page to handle the button click.

 Use a PayPal API Express Checkout operation to set up the interaction with PayPal and redirect the browser to PayPal to initiate buyer approval for the payment.
- **3.** On your order confirmation page, obtain the payment authorization from PayPal and use PayPal API Express Checkout operations to obtain the shipping address and accept the payment.
- **4.** Test your integration using the PayPal sandbox.

Because of the many variations in checkout procedures and flows, you should understand how your current checkout flow works and become familiar with the Express Checkout flow. Start by reviewing Express Checkout Flow. For additional background information that will help you get started, see Express Checkout Building Blocks.

Configuring and Customizing the Express Checkout Experience

After you implement and test your basic Express Checkout integration, you should evaluate the additional features provided by Express Checkout.

Express Checkout can be configured and customized to fit into your site. Carefully evaluate each option because the more you do to streamline the checkout process and make Express Checkout seamless to your customers, the more likely your sales will increase.

At a minimum, you should set your logo on the PayPal site and provide order details in the transaction history. If you do not need the benefits associated with paying on your site, consider using the PayPal confirmation page as your Order Review page to further streamline the user experience.

You should configure the look and feel of PayPal pages to match the look and feel of your site by specifying the

- Logo to display
- Colors for the background and border
- Language in which PayPal content is displayed

You should include

• Order details, including shipping and tax, during checkout

IMPORTANT: Not displaying this information is a major cause of shopping cart abandonment during checkout.

• Shipping information for non-digital goods, which can be your address information for the buyer or the address on file with PayPal; if you use the address on file with PayPal, you can specify whether or not it must be a confirmed address

You can also handle special situations, including

- Removing your Review Order page from the checkout process to create a more streamlined flow, which can lead to better order completion, also know as *conversion*, rate
- Associating a payment with an eBay auction item or an invoice number
- Accepting payments with giropay

Additional PayPal API Operations

You can use PayPal API operations to include advanced processing and "back office" processes with Express Checkout, such as

- Capturing payments associated with authorizations and orders
- Handling recurring payments
- Issuing refunds, providing a transaction search capability, and providing other "back office" operations

Express Checkout Flow

You initiate the Express Checkout flow on your shopping cart page and on your payment options page.

Express Checkout consists of one flow with two entry points:

- At the beginning of the checkout flow; the buyer clicks the Checkout with PayPal button
- Upon payment; the buyer selects PayPal as a payment option

You must integrate Express Checkout from both entry points. They are explained separately for simplicity.

Checkout Entry Point

Buyers initiate the Express Checkout flow by clicking the **Checkout with PayPal** button on your shopping cart page.

The following diagram shows how Express Checkout integrates with a typical checkout flow:

Integrating Express Checkout from the Shopping Cart page



Payment Option Entry Point

Buyers initiate the Express Checkout flow by selecting PayPal as the default option on your payment options page.

The following diagram shows how to integrate Express Checkout from your payment options page:

Confirmation

Pay Pal Login page Review Payment Payment Shopping Cart Collect Shipping Billing Payment Order Order

Integrating Express Checkout from the Payment Options page

Complete Express Checkout Flow

To implement Express Checkout, you must offer it both as a checkout option and as a payment option.

Review

You add Express Checkout to your existing flow by placing the **Check out with PayPal** button on your checkout page and by providing **PayPal** as a payment option. The following diagram shows the complete flow:

Complete Express Checkout flow

addresses



To implement the complete Express Checkout flow

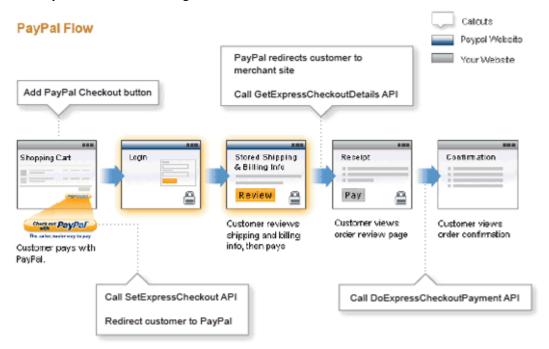
- On your Shopping Cart page, place the **Check out with PayPal** button and handle button clicks by setting up the Express Checkout transaction and redirecting your buyer's browser to PayPal.
- On your Payment Options page, associate the **PayPal** logo with an option, which is typically implemented as a radio button, and handle its selection by setting up the Express Checkout transaction and redirecting your buyer's browser to PayPal.
- After returning from PayPal, complete the Express Checkout transaction by obtaining shipping information from PayPal and accepting the payment.

Express Checkout Building Blocks

You implement Express Checkout flows with Express Checkout buttons, PayPal API operations, PayPal commands, and tokens.

The following conceptual diagram identifies the building blocks that you use to integrate Express Checkout on your website:

Express Checkout Integration



NOTE: Tokens are not shown in the diagram.

Express Checkout Buttons

PayPal provides buttons and images for you to place on your website.

To implement Express Checkout, you must place the following button on your Shopping Cart page:



To implement PayPal as a payment option, which is part of Express Checkout, you must associate a PayPal-provided image, with the option. The radio button, below, shows the image:



Express Checkout API Operations

The PayPal API provides three operations for Express Checkout, one to set up the transaction, one to obtain information about the buyer, and one to handle the payment and complete the transaction.

API Operation	Description
SetExpressCheckout	Sets up the Express Checkout transaction. You can specify information to customize the look and feel of the PayPal site and the information it displays. You must include the following information: • URL to the page on your website that PayPal redirects to after the buyer successfully logs into PayPal and approves the payment • URL to the page on your website that PayPal redirects to if the buyer cancels • Your best estimate of the total amount of the order
GetExpressCheckout	Obtains information about the buyer from PayPal, including shipping
	information.
DoExpressCheckoutPayment	Completes the Express Checkout transaction, including the actual total amount of the order. Additional customizing is possible.

Express Checkout Command

PayPal provides a command that you use when redirecting to PayPal, which enables your buyer to log into PayPal to approve an Express Checkout payment.

When you redirect your buyer's browser to PayPal, you must specify _ExpressCheckout command for Express Checkout. You also specify the token that identifies the transaction, which was returned by the SetExpressCheckout API operation.

IMPORTANT:

To enable PayPal to redirect back to your website, you must have already invoked the SetExpressCheckout API operation, specifying URLs that PayPal uses to redirect back to your site. PayPal redirects to the *success* URL when the buyer pays on PayPal; otherwise, PayPal redirects to the *cancel* URL.

After the buyer approves the payment or cancels, PayPal redirects to one of the URLs that you specified with the following information:

• the token that was included in the redirect to PayPal

Introducing Express Checkout

Express Checkout Building Blocks

• the buyer's unique identifier (Payer ID), which is returned only if the buyer approves the payment

Express Checkout Token Use

Express Checkout uses a token to control access to PayPal and execute Express Checkout API operations.

The SetExpressCheckout API operation returns a token, which is used by other Express Checkout API operations and the _ExpressCheckout command to identify the transaction. The life of the token is approximately three hours.

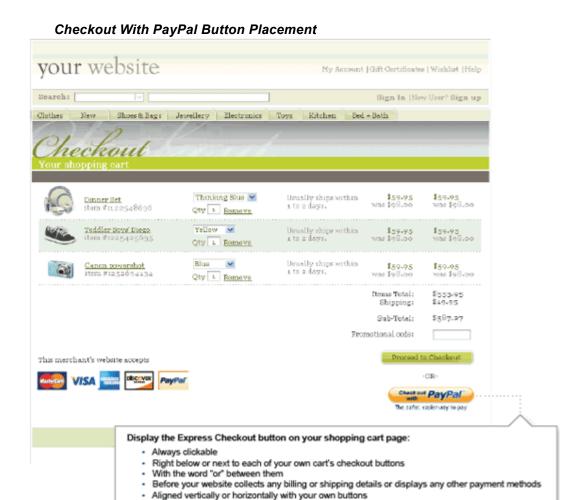
2 Express Checkout Button Placement and Usage

To correctly implement Express Checkout, you must follow the button placement and usage requirements.

- PayPal Express Checkout Button
- PayPal Mark as the Default Payment Option
- Now Accepting PayPal Banner
- User Interface Design Tips

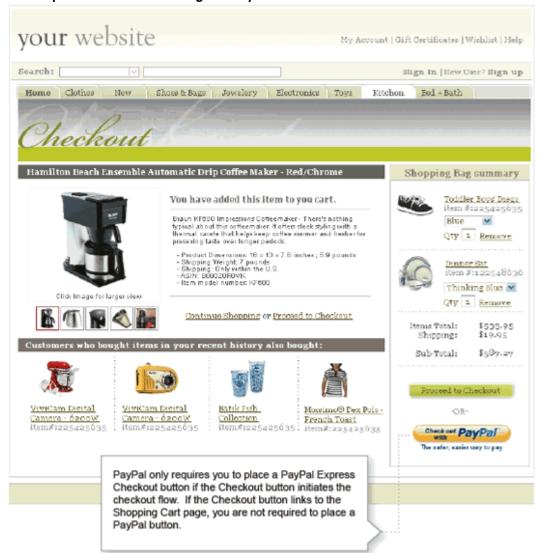
PayPal Express Checkout Button

You must place the PayPal checkout button on your shopping cart page:



Put the Express Checkout button immediately above or below every existing checkout button or link on your website. If your site requires customers to sign in or create a store account before checkout, the Express Checkout button should be visible before users are required to sign in.

If your site has a Checkout button on pages other than the Shopping Cart page (such as on product pages), PayPal requires that you put a PayPal Express Checkout button next to these Checkout buttons as well.



Requirements for initiating the Express Checkout Flow

PayPal Mark as the Default Payment Option

Display the PayPal mark as the default payment option selected next to the other payment options at the end of checkout.

When displaying PayPal with other payment options, PayPal highly recommends that you use radio buttons:

• Radio button with vertical placement

Express Checkout Button Placement and Usage

Now Accepting PayPal Banner



• Radio button with horizontal placement

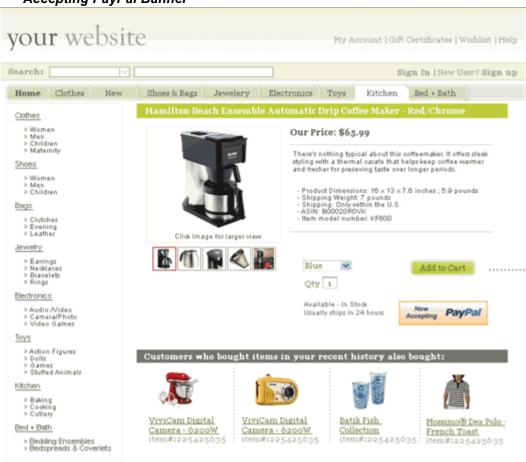


If your website cannot accommodate radio buttons, you may also choose from one of these designs:



Now Accepting PayPal Banner

You must place a **Now Accepting PayPal** banner next to the **Add to Cart** button on each of your product detail pages.



Accepting PayPal Banner

NOTE: Testing has shown that the use of this banner in this position increases sales.

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User Interface Design Tips

Here are some additional user interface design tips:

- Create checkout pages that are uncluttered and free from visual distractions.
- Keep the checkout flow to as few a number of pages as possible.
- Be sure that the PayPal Express Checkout button is clickable, and all PayPal buttons and images are used for the use they were intended.
- Do not use a Preview button when the next page is actually a purchase.
- Avoid using warning or legal text as part of the primary checkout experience.
- Do not alter, recolor, or resize the PayPal Express Checkout button, or add text around the PayPal checkout button.

Express Checkout Button Placement and Usage

User Interface Design Tips

3

Express Checkout Button and Logo Image Integration

PayPal hosts the PayPal button and logo images that you use on your website. Using PayPal's buttons and logos is convenient and standardizes appearance on websites that use PayPal as a payment option.

- About PayPal Button and Logo Images
- Dynamic Images
- Configuring the Dynamic Image
- Dynamic Image Command Reference
- Static PayPal Buttons and Images Source Requirements

About PayPal Button and Logo Images

To inform buyers that PayPal is accepted on your website, you must place PayPal button and logo images in your checkout flow.

PayPal Express Checkout requires that you integrate two images. The Check out with PayPal button and the PayPal Acceptance mark.

Express Checkout Images

The Check out with PayPal button is the image you place on your shopping cart page. The US version of the image looks like this. PayPal also provides buttons for other locales.



The PayPal Acceptance Mark is the image you place on your payment methods page. It looks like this:



Express Checkout Image Flavors

The Check out with PayPal button and the PayPal Acceptance mark images are available in two flavors:

• Dynamic image

Express Checkout Button and Logo Image Integration

Dynamic Images

Static image

The dynamic images enable PayPal to change their appearance dynamically. If, for example, you have signed up to participate in a PayPal campaign, PayPal can change the appearance of the image dynamically for the duration of that campaign based on parameter information you append to the image URL. By default, the Express Checkout images appears as shown above.

The static images cannot be changed dynamically. To participate in a PayPal campaign, you would have to manually update the image code to change the image displayed and restore the default image when the campaign is over. The only way you can have image management taken care of for you is to replace static images in your implementation with dynamic images.

Dynamic Images

To use dynamic images, you must pass information to PayPal as parameters appended to the image URL. Your unique ID tells PayPal whether or not you are participating in events that require image changes. Other information you pass instructs PayPal on the types of images to return.

If, for example, you are participating in a PayPal campaign that you have signed up for with PayPal and you have passed the appropriate parameter information to PayPal, PayPal automatically updates the image to reflect the campaign information. When the campaign is over, PayPal restores the default image. You are not responsible for scheduling or making changes to your website application code before, during, or after the campaign. It is all handled for you when you set up the dynamic image.

If you require localized campaign images, you can have the localized button image display for each country in which you participate. Simply assign the correct code for the country to the locale parameter you append to the dynamic image URL. PayPal will return to the default button image associated with each locale when the campaign is not available.

Configuring the Dynamic Image

To set up the dynamic image, you provide the name-value pair parameter information in the image URL. You can pass information in the image URL for any of the following options.

- Set Up the Default Image
- Set Up Image for Dynamic Use
- Change the Locale
- Feedback to Buyer Meeting an Incentive
- Choose the Image

Set Up the Default Image

The following URL points to the default Check out with PayPal image:

https://fpdbs.paypal.com/dynamicimageweb?cmd=_dynamic-image

To make the image dynamic, you need only add parameters to this URL to specify the changes you want displayed.

To test in the Sandbox environment, send the image to the following Sandbox URL:

https://fpdbs.sandbox.paypal.com/dynamicimageweb?cmd= dynamic-image

Set Up Image for Dynamic Use

To set up the image URL for dynamic use, you associate it with your PayPal merchant account number. Append the pal parameter to the image URL, and set the parameter to the value of your encrypted PayPal merchant account number. You can obtain your account number from the Profile page or by contacting PayPal.

```
https://fpdbs.paypal.com/dynamicimageweb?cmd=_dynamic-image&pal=<encrypted_PayPal_account_number>
```

Place the URL with parameter information at the appropriate image locations in your web application.

The pal alerts PayPal to campaigns in which you are participating. PayPal obtains this information from your account and replaces the default image with the appropriate campaign image during that campaign.

NOTE: If you pass in a pal value matching a merchant account that is not yours, PayPal displays the image for that account. Be sure to pass the pal value matching your account.

Change the Locale

To specify the locale of the image, append the locale parameter to the image URL and set it to the code for the appropriate country. If a country does not have a localized image or if you do not pass a locale value, the default US image displays. This example displays the image for the Spanish locale:

```
https://fpdbs.paypal.com/dynamicimageweb?cmd=_dynamic-image&pal=<encrypted_PayPal_account_number>&locale=es_ES
```

If you are participating in a campaign across multiple countries, you can set the image locale for each country in which you participate. PayPal returns the default image associated with the locale when the campaign is over.

Express Checkout Button and Logo Image Integration

Dynamic Image Command Reference

Feedback to Buyer Meeting an Incentive

Pass the order total amount in the ordertotal parameter so PayPal can determine if the buyer is eligible for an incentive. Say, for example, that you are participating in a campaign in which the buyer is eligible for a 20% discount when their order meets a minimum of \$50.00. You can pass that value to PayPal in the ordertotal parameter, as shown here:

```
https://fpdbs.paypal.com/dynamicimageweb?cmd=_dynamic-image&pal=encrypted_PayPal_account_number&ordertotal=50.00
```

When a buyer's order meets or exceeds \$50.00, PayPal displays the incentive image informing the buyer of their eligibility for the discount.

Choose the Image

To specify the image that you want to display, set the value of buttontype. This example sets buttontype to the PayPal Acceptance Mark image:

```
https://fpdbs.paypal.com/dynamicimageweb?cmd=_dynamic-image&pal=encrypted_PayPal_account_number&buttontype=ecmark
```

The default value for buttontype is ecshortcut.

Dynamic Image Command Reference

To set up the information that enables dynamic images, you add name-value pairs to the dynamic image URL. Parameters and values are described below.

Dynamic Image Parameters

The table below describes the dynamic image name-value pair parameters.

Dynamic-Image Command Variable Descriptions

pal	Type: encrypted PayPal account number
	(Optional) Unique identification number. When merchants sign up for a PayPal business account, PayPal assigns them an account number. The pal value represents the pay-to merchant account, not a third party making the API request on behalf of this merchant.
ordertotal	Type: numeric
	(Optional) The total cost of the order to the buyer. If shipping and sales tax are known, include them in this value. If not, this value should be the current subtotal of the order.
	Character length and limitations: Must not exceed \$10,000.00 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(,).
locale	Type: string
	(Optional) The five-character locale code. See Locale Codes.
	Any other values default to US.
	NOTE: The merchant can participate in one campaign per country.
buttontype	Type: string
	(Optional) Indicates a dynamic image. The values are:
	 (Default) Check out with PayPal button image: ecshortcut
	 PayPal Acceptance Mark image: ecmark

Locale Codes

The table below lists the locale values. Country code is the two-letter code for the country. Language priority is the language associated with the country code where language_0 is the default.

Country code	Language priority	Locale
AT	language_0	de_DE
AT	language_1	en_US
AU	language_0	en_AU
BE	language_0	en_US
BE	language_1	nl_NL
BE	language_2	fr_FR
C2	language_0	en_US
C2	language_1	zh_XC
C2	language_2	fr_XC
C2	language_3	es_XC
СН	language_0	de_DE
СН	language_1	fr_FR
СН	language_2	en_US
CN	language_0	zh_CN
default	language_0	en_US
default	language_1	fr_XC
default	language_2	es_XC
default	language_3	zh_XC
DE	language_0	de_DE
DE	language_1	en_US
ES	language_0	es_ES
ES	language_1	en_US
FR	language_0	fr_FR
FR	language_1	en_US
GB	language_0	en_GB
GF	language_0	fr_FR
GF	language_1	en_US
GI	language_0	en_US
GP	language_0	fr_FR
GP	language_1	en_US

Country code	Language priority	Locale
IE	language_0	en_US
IT	language_0	it_IT
IT	language_1	en_US
JP	language_0	ja_JP
JP	language_1	en_US
MQ	language_0	fr_FR
MQ	language_1	en_US
NL	language_0	nl_NL
NL	language_1	en_US
PL	language_0	pl_PL
PL	language_1	en_US
RE	language_0	fr_FR
RE	language_1	en_US
US	language_0	en_US
US	language_1	fr_XC
US	language_2	es_XC
US	language_3	zh_XC

Static PayPal Buttons and Images Source Requirements

Using the static image code on the PayPal servers eliminates the need for you to maintain them yourself.

PayPal requires that you use Express Checkout images hosted on PayPal's secure servers, rather than hosting copies of these images on your own servers. Out-of-date PayPal buttons on you site could reduce customer confidence. If the buttons are updated, the new buttons will appear automatically in your application.

To get the HTML code for the Check out with PayPal button, use the URLs in the table below.

Country	Image URL
Australia	https://www.paypal.com/au/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Austria	https://www.paypal.com/at/cgi-bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside

Express Checkout Button and Logo Image Integration

Static PayPal Buttons and Images Source Requirements

Country	Image URL
Belgium	https://www.paypal.com/be/cgi-bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Canada	https://www.paypal.com/ca/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
China	https://www.paypal.com/cn/cgi-bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
France	https://www.paypal.com/fr/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Germany	https://www.paypal.com/de/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Italy	https://www.paypal.com/it/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Japan	https://www.paypal.com/j1/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Netherlands	https://www.paypal.com/nl/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Poland	https://www.paypal.com/pl/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Spain	https://www.paypal.com/es/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
Switzerland	https://www.paypal.com/ch/cgi-bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
United Kingdom	https://www.paypal.com/uk/cgi-bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside
United States	https://www.paypal.com/us/cgi- bin/webscr?cmd=xpt/Merchant/merchant/ExpressCheckoutButtonCode-outside

To get the HTML code for the PayPal Acceptance Mark image and for other general information about images, change the command value in the URLs above to: cmd=xpt/cps/general/OnlineLogoCenter-outside

For example, to get the PayPal Acceptance Mark image for Poland, change the URL to: https://www.paypal.com/pl/cgi-bin/webscr?cmd=xpt/cps/general/OnlineLogoCenter-outside

4

PayPal Name-Value Pair API Basics

The PayPal API uses a client-server model in which your site is a client of the PayPal server.

- PayPal API Client-Server Architecture
- Obtaining API Credentials
- Creating an NVP Request
- Executing NVP API Operations
- Responding to an NVP Response

PayPal API Client-Server Architecture

The PayPal API uses a client-server model in which your site is a client of the PayPal server.

You set up web pages on your site that initiate actions on a PayPal API server by sending a request to the server. The PayPal server responds with a confirmation that the requested action was taken or that an error occurred. The response may contain additional information related to the request. The following diagram shows the basic request-response mechanism.

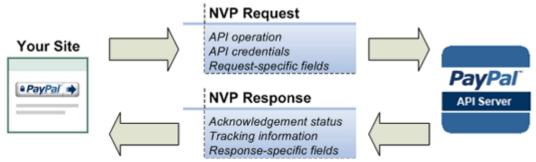


For example, you might want to obtain the customer's shipping address from PayPal. You could initiate a request that specifies an API operation that gets customer details. The response from the PayPal API server would contain information about whether the request was successful. If the operation was successful, the response would contain the requested information; in this case, the customer's address. If the operation fails, there will be one or more error messages.

PayPal Name-Value Pair API Requests and Responses

To perform a PayPal NVP API operation, you send an NVP-formatted request to a PayPal NVP server and interpret the response.

The following diagram shows a request being generated on your site, executed by a PayPal server, and a response being returned to your site:



The request identifies

- The name of the API operation to be performed and its version; for example, SetExpressCheckout for version 52.0
- Credentials that identify the PayPal account making the request
- Request-specific information that controls the API operation to be performed

A PayPal API server performs the operation and returns a response. The response contains

- An acknowledgement status that indicates whether the operation was a success or failure and whether any warning messages were returned
- Information that can be used by PayPal to track execution of the API operation
- Response-specific information required to fulfill the request

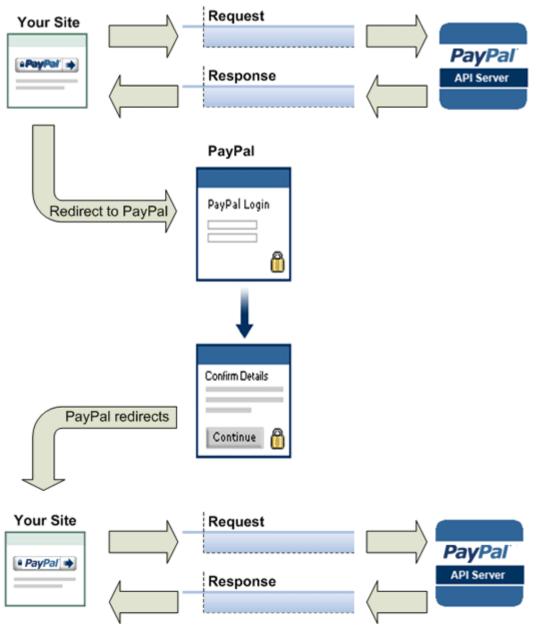
Multiple API Operations

Some of the features you want to implement require multiple API operations.

Features, such as Express Checkout, require more than one API operation. Typically, these features require you to

- 1. Invoke an API operation, such as SetExpressCheckout, that sets up the return URL to which PayPal redirects your buyer's browser after the buyer finishes on PayPal; other setup may also be performed
- **2.** Invoke additional API operations after receiving the buyer's permission on PayPal; for example, GetExpressCheckoutDetails or DoExpressCheckoutPayment.

The following diagram shows the execution flow between your site and PayPal:



Token Security

Typically, the API operation that sets up a redirection to PayPal returns a token, which is passed as a parameter in the redirect to PayPal. The token also may be required in related API operations.

Obtaining API Credentials

To use the PayPal API, you must have API credentials that identify you as a PayPal business account holder authorized to perform various API operations.

Although you can use either an API signature or a certificate for credentials, PayPal recommends you use a signature.

IMPORTANT:

You can use either a signature or a certificate; however, you cannot use a signature and a certificate at the same time.

Creating an API Signature

You must establish credentials to use the PayPal API; typically, you create an API signature.

You must have a PayPal business account.

An API signature is a credential that consists of an API User Name along with an associated password and signature, all of which are assigned by PayPal.

To create an API signature

1. Log into PayPal and click **Profile**.



2. Click **API Access** from the Profile menu.

Profile Summary

To edit your Profile information, ple

Account Information

Email

Street Address

Phones and Mobile Payments

Password

Notifications

Language Preference

rime zone

API Access

PayPai Security Key

Business Information

Close Account

3. Click Request API Credentials.

Setting up PayPal API Credentials and Permissions

Select one of the following options to use PayPal's secure Application Programming Interfaces (APIs). If you're not sure what you need, ask your shopping cart or solution provider.

Grant API Permission to your shopping cart or solution provider if the cart will make API calls on your behalf.

Request API Credentials to create an API username and password for either your preintograted chopping cart or a custom solution that you are developing.

Learn more about PayPal API concepts and terminology

4. Check Request API signature and click Agree and Submit.

Request API Credentials

Back to Profile Summary

API credentials consist of three elements:

- An API username
- An API password
- · Either an API signature or an API SSL client-side certificate

If you're using a shopping cart or solution provider, ask whether you need an API signature or a certificate.

 Request API signature if your shopping cart or solution provider has asked for an API occupance, password, and signature, or if you're developing a custom shopping cart.

 Request API certificate if your shopping cart or solution provider requires a file-based certificate.

Need help deciding which credential is right for your needs? Learn more

By clicking Agree and Submit , I agree to the API License Agreement and Terms of Use .

Agree and Submit

Cancel

Creating an NVP Request

5. To complete the process, click **Done**.



Make a note of the API User Name, the Password, and the API Signature. You will need to include this information whenever you execute a PayPal API operation.

Creating an API Certificate

You must establish credentials to use the PayPal API; however, only create an API certificate if your site requires it—most often, you will want to create an API signature for your credentials.

If you really need a certificate, follow the instructions at https://www.paypal.com/IntegrationCenter/ic api-certificate.html.

NOTE: The certificate you use for API credentials is not the same as an SSL certificate for your website; they are separate entities and not related to each other.

Creating an NVP Request

The Name-Value Pair request format specifies the API operation to perform, credentials that authorize PayPal to access your account, and fields that specify additional information to be used in the request.

Specifying the PayPal API Operation

For the NVP version of the PayPal API, you must specify the name of the PayPal API operation to execute and its version in each request.

The following diagram shows the API operation part of an NVP request:



A method specifies the PayPal operation you want to execute. Each method is associated with a version number; together, the method and version defines the exact behavior of the API operation. Typically, the behavior of an API operation does not change between versions; however, you should carefully retest your code whenever you change a version.

To specify a method and version number

1. Choose the PayPal API operation you want to use.

```
METHOD=operation
```

2. Choose the appropriate version.

In most cases, you will want to use the latest version of the API operation.

VERSION=version number

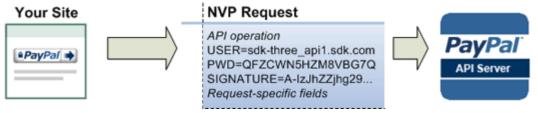
Setting the API operation and version using PHP

```
function PPHttpPost($methodName_, $nvpStr_) {
    ...
    $version = urlencode('52.0'); // NVPRequest for submitting to server
    $nvpreq ="METHOD=$methodName_&VERSION=$version...$nvpStr_";
    ...
}
```

Specifying an API Credential

You must specify API credentials in each request to execute a PayPal API operation.

When you execute a PayPal API operation, you use credentials, such as a signature, to authenticate that you are requesting the API operation. The following diagram shows the API credentials part of an NVP request:



To enable PayPal to authenticate your request

PayPal Name-Value Pair API Basics

Creating an NVP Request

1. Specify the API user name associated with your account.

```
USER=API_usemame
```

2. Specify the password associated with the API user name.

```
PWD=API password
```

3. If you are using an API signature and not an API certificate, specify the API signature associated with the API username.

```
SIGNATURE=API signature
```

Specifying Credentials in PHP

```
$API_UserName = urlencode('my_api_username'); // replace with API username $API_Password = urlencode('my_api_password'); // replace with password $API_Signature = urlencode('my_api_signature'); // replace with actual sig // NVPRequest for submitting to server$nvpreq = "...&PWD=$API Password&USER=$API UserName&SIGNATURE=$API Signature...";
```

URL Encoding

All requests to execute PayPal API operations sent via HTTP must be URL encoded.

The PayPal NVP API uses the HTTP protocol to send requests and receive responses from a PayPal API server. You must encode all data sent using the HTTP protocol because data that is not encoded could be misinterpreted as part of the HTTP protocol instead of part of the request. Most programming languages provide a way to encode strings in this way. You should consistently URL encode the complete API request; otherwise, you may find that unanticipated data causes an error.

NOTE: An HTTP form is automatically URL encoded by most browsers.

List Syntax for Name-Value Pairs

The PayPal API uses a special syntax for NVP fields defined as lists.

The NVP interface to the PayPal API requires a unique name for each field. In the API, lists are prefixed by \bot . To identify an element within the list, use the offset from the beginning of the list, starting with 0 as the first element. For example, \bot _DESC0 is the first line of a description, \bot _DESC1, is the second line, and so on.

Executing NVP API Operations

You execute an PayPal NVP API operation by submitting an HTTP POST request to a PayPal API server.

Specifying a PayPal Server

You execute a PayPal API operation by submitting the request to a PayPal API server.

To execute a PayPal NVP API operation, submit your complete request to one of the following end points:

Server end point	Description
https://api- 3t.sandbox.paypal.com/nvp	Sandbox server for use with API signatures; use for testing your API
https://api-3t.paypal.com/nvp	PayPal "live" production server for use with API signatures
https://api.sandbox.paypal.com/nvp	Sandbox server for use with API certificates; use for testing your API
https://api.paypal.com/nvp	PayPal "live" production server for use with API certificates

NOTE: You must use different API credentials for each kind of server. Typically, you obtain API credentials when you test in the Sandbox and then obtain another set of credentials for the production server. You must change each API request to use the new credentials when you go live.

Logging API Operations

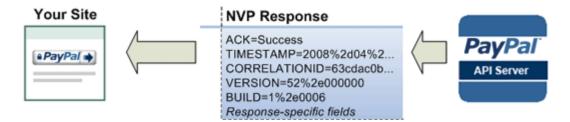
You should log basic information about each PayPal API operation you execute.

All responses to PayPal API operations contain information that may be useful for debugging purposes. You should log the Correlation ID, which identifies the API operation to PayPal, and response-specific information, such as the transaction ID, which you can use to review a transaction on the PayPal website or through the API. You can log other information that may be useful, such as the timestamp. You could implement a scheme that logs the entire request and response in a "verbose" mode; however, you should never log the password from a request.

Responding to an NVP Response

The Name-Value Pair response consists of the answer to the request as well as common fields that identify the API operation and how it was executed.

The following diagram shows fields in the response to a PayPal NVP API operation:



Common Response Fields

The PayPal API always returns common fields in addition to fields that are specific to the requested PayPal API operation.

A PayPal API response includes the following fields:

Field	Description	
ACK	 Acknowledgement status, which is one of the following values: Success indicates a successful operation SuccessWithWarning indicates a successful operation; however, there are messages returned in the response that you should examine Failure indicates that the operation failed; the response will also contain one or more error message explaining the failure. FailureWithWarning indicates that the operation failed and that there are messages returned in the response that you should examine 	
CORRELATIONID	Correlation ID, which uniquely identifies the transaction to PayPal	
TIMESTAMP	The date and time that the requested API operation was performed	
VERSION	The version of the API	
BUILD	The sub-version of the API	

URL Decoding

All responses to HTTP POST operations used by the PayPal NVP API must be decoded.

The PayPal NVP API uses the HTTP protocol to send requests and receive responses from a PayPal API server. You must decode all data returned using the HTTP protocol so that it can be displayed properly. Most programming languages provide a way to decode strings.

NOTE: Most browsers decode responses to HTTP requests automatically.

5

Implementing the Simplest Express Checkout Integration

The simplest Express Checkout integration requires the following PayPal API operations: SetExpressCheckout, DoExpressCheckoutPayment, and optionally, GetExpressCheckoutDetails.

- Setting Up the Express Checkout Transaction
- Obtaining Express Checkout Transaction Details
- Completing the Express Checkout Transaction

Setting Up the Express Checkout Transaction

To set up an Express Checkout transaction, you must invoke the SetExpressCheckout API to provide sufficient information to initiate the payment flow and redirect to PayPal if the operation was successful.

This example assumes that you have set up the mechanism you will use to communicate with the PayPal server and have a PayPal business account with API credentials. It also assumes that the payment action is a final sale.

When you set up an Express Checkout transaction, you specify values in the SetExpressCheckout request and then call the API. The values you specify control the PayPal page flow and the options available to you and your buyers. You should start by setting up a standard Express Checkout transaction, which can be modified to include additional options.

To set up the simplest standard Express Checkout transaction

1. Specify the amount of the transaction; include the currency if it is not in US dollars.

Specify the total amount of the transaction if it is known; otherwise, specify the subtotal. Regardless of the specified currency, the format must have decimal point with exactly two digits to the right and an optional thousands separator to the left, which must be a comma; for example, EUR 2.000,00 must be specified as 2000.00 or 2,000.00. The specified amount cannot exceed USD \$10,000.00, regardless of the currency used.

AMT=amount
CURRENCYCODE=currencyID

2. Specify the return URL.

The return URL is the page to which PayPal redirects your buyer's browser after the buyer logs into PayPal and approves the payment. Typically, this is a secure page (https://...) on your site.

Implementing the Simplest Express Checkout Integration

Setting Up the Express Checkout Transaction

NOTE: You can use the return URL to piggyback parameters between pages on your site. For example, you can set your Return URL to specify additional parameters using the https://www.yourcompany.com/page.html?param=value... syntax. The parameters become available as request parameters on the page specified by the Return URL

RETURNURL=*retum_url*

3. Specify the cancel URL.

The cancel URL is the page to which PayPal redirects your buyer's browser if the buyer does not approve the payment. Typically, this is the secure page (https://...) on your site from which you redirected the buyer to PayPal.

NOTE: You can pass SetExpressCheckout request values as parameters in your URL to have the values available, if necessary, after PayPal redirects to your URL.

CANCELURL=cancel_url

4. Specify the payment action.

Although the default payment action is a Sale, it is a best practice to explicitly specify the payment action as one of the following values:

PAYMENTACTION=Sale
PAYMENTACTION=Authorization
PAYMENTACTION=Order

- **5.** Execute the SetExpressCheckout API operation to set up the Express Checkout transaction.
- **6.** Test that the response to the SetExpressCheckout API operation was successful.
- 7. If calling the SetExpressCheckout API was successful, redirect the buyer's browser to PayPal and execute the _express-checkout command using the token returned in the SetExpressCheckout response.

NOTE: The following example uses the PayPal Sandbox server:

```
https://www.sandbox.paypal.com/webscr

&cmd=_express-checkout&token=tokenValue

&AMT=amount

&CURRENCYCODE=currencyID

&RETURNURL=return_url

&CANCELURL=cancel_url
```

Obtaining Express Checkout Transaction Details

To obtain details about an Express Checkout transaction, you can invoke the GetExpressCheckoutDetails API operation.

This example assumes that PayPal redirects to your buyer's browser with a valid token after the buyer reviews the transaction on PayPal.

Although you are not required to invoke the GetExpressCheckoutDetails API operation, most Express Checkout implementations take this action to obtain information about the buyer. You invoke the GetExpressCheckoutDetails API operation from the page specified by return URL, which you set in your call to the SetExpressCheckout API. Typically, you invoke this operation as soon as the redirect occurs and use the information in the response to populate your review page.

To obtain a buyer's shipping address and Payer ID

1. Specify the token returned by PayPal when it redirects the buyer's browser to your site.

PayPal returns the token to use in the token HTTP request parameter when redirecting to the URL you specified in your call to the SetExpressCheckout API.

TOKEN=tokenValue

- 2. Execute the GetExpressCheckoutDetails API to obtain information about the buyer.
- **3.** Access the fields in the GetExpressCheckoutDetails API response.

NOTE: Only populated fields are returned in the response.

Completing the Express Checkout Transaction

To complete an Express Checkout transaction, you must invoke the DoExpressCheckoutPayment API operation.

This example assumes that PayPal redirects your buyer's browser to your website with a valid token after you call the SetExpressCheckout API. Optionally, you may call the GetExpressCheckoutDetails API before calling the DoExpressCheckoutPayment API.

In the simplest case, you set the total amount of the order when you call the SetExpressCheckout API. However, you can change the amount before calling the DoExpressCheckoutPayment API if you did not know the total amount when you called the SetExpressCheckout API.

Implementing the Simplest Express Checkout Integration

Completing the Express Checkout Transaction

This example assumes the simplest case, in which the total amount was specified in the return URL when calling the SetExpressCheckout API. Although you can specify additional options, this example does not use any additional options.

To execute an Express Checkout transaction

1. Specify the token returned by PayPal when it redirects the buyer's browser to your site.

PayPal returns the token to use in the token HTTP request parameter when redirecting to the URL you specified in your call to the SetExpressCheckout API.

TOKEN=tokenValue

2. Specify the Payer ID returned by PayPal when it redirects the buyer's browser to your site.

PayPal returns the Payer ID to use in the token HTTP request parameter when redirecting to the URL you specified in your call to the SetExpressCheckout API. Optionally, you can obtain the Payer ID by calling the GetExpressCheckoutDetails API.

PAYERID=id

3. Specify the amount of the order including shipping, handling, and tax; include the currency if it is not in US dollars.

Regardless of the specified currency, the format must have decimal point with exactly two digits to the right and an optional thousands separator to the left, which must be a comma; for example, EUR 2.000,00 must be specified as 2000.00 or 2,000.00. The specified amount cannot exceed USD \$10,000.00, regardless of the currency used.

AMT=amount
CURRENCYCODE=currencyID

4. Specify the payment action.

Although the default payment action is a Sale, it is a best practice to explicitly specify the payment action as one of the following values:

PAYMENTACTION=Sale
PAYMENTACTION=Authorization
PAYMENTACTION=Order

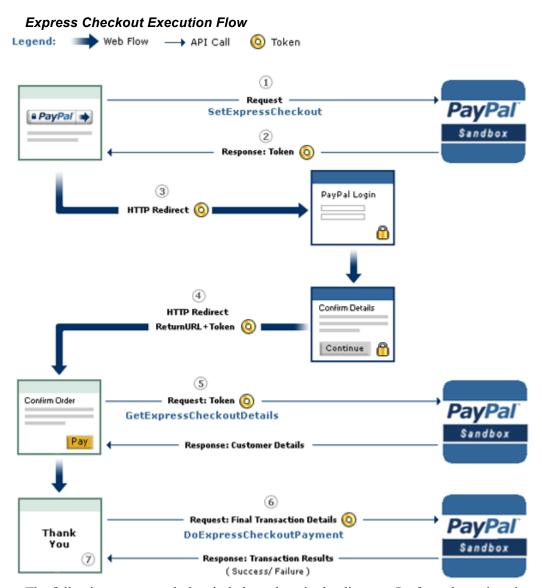
- **5.** Execute the DoExpressCheckoutPayment API to complete the Express Checkout transaction.
- **6.** Examine the values returned by the API if the transaction completed successfully.

Testing an Express Checkout Integration

You can test your Express Checkout integration in the Sandbox.

This example shows how to simulate your web pages using HTTP forms and supplying the values for API operations from these forms. You can use this strategy for your initial testing; however, for more complete testing, you will want to replace these forms with your web pages containing actual code.

The following diagram shows the Express Checkout execution flow, which uses the Sandbox as the API server. The pages on the left represent your site.



The following steps match the circled numbers in the diagram. Perform the actions in each step to test Express Checkout.

1. Invoke a form on your site that calls the SetExpressCheckout API on the Sandbox.

To invoke the API, set form fields whose names match the NVP names of the fields you want to set, specify their corresponding values, and then post the form to a PayPal Sandbox server, such as https://api-3t.sandbox.paypal.com/nvp, as shown in the following example:

```
<form method=post action=https://api-3t.sandbox.paypal.com/nvp>
<input type=hidden name=USER value= API_usemame>
<input type=hidden name=PWD value= API_password>
<input type=hidden name=SIGNATURE value= API_signature>
<input type=hidden name=VERSION value=52.0>
<input type=hidden name=PAYMENTACTION value=Sale>
<input name=AMT value=19.95>
<input type=hidden name=RETURNURL
    value=http://www.YourReturnURL.com>
<input type=hidden name=CANCELURL
    value=http://www.YourCancelURL.com>
<input type=submit name=METHOD value=SetExpressCheckout>
</form>
```

NOTE: The API username is a Sandbox business test account for which a signature exists. See the Test Certificates tab of the Sandbox to obtain a signature. If you are not using a signature, you must use a different Sandbox server.

2. Review the response string from the SetExpressCheckout API operation.

PayPal responds with a message, such as the one shown below. Note the status, which should include ACK set to Success, and a token that is used in subsequent steps.

```
TIMESTAMP=2007%2d04%2d05T23%3a23%3a07Z &CORRELATIONID=63cdac0b67b50  
&ACK=Success  
&VERSION=52%2e000000  
&BUILD=1%2e0006  
&TOKEN=EC%2d1NK66318YB717835M
```

3. If the operation was successful, use the token and redirect your browser to the Sandbox to log in, as follows:

```
https://www.sandbox.paypal.com/cgi-bin/webscr?
cmd=_express-checkout
&token=EC-1NK66318YB717835M
```

NOTE: The token in the command line is an HTTP request parameter and not the NVP field; this parameter name must be lowercase.

You may need to replace hexadecimal codes with ASCII codes; for example, you may need to replace \$2d in the token with a hyphen (–).

You must log in to https://developer.paypal.com before you log in to a Sandbox test account. You then log in to the test account that represents the buyer, not the API_username business test account that represents you as the merchant.

4. After logging into the buyer test account, confirm the details.

When you confirm, the Sandbox redirects your browser to the return URL you specified when invoking the SetExpressCheckout API operation, as in the following example:

```
http://www.YourReturnURL.com/
?token=EC-1NK66318YB717835M&PayerID=7AKUSARZ7SAT8
```

5. Invoke a form on your site that calls the GetExpressCheckoutDetails API operation on the Sandbox:

If the operation was successful, the GetExpressCheckoutDetails API returns information about the payer, such as the following information:

```
TIMESTAMP=2007%2d04%2d05T23%3a44%3a11Z
&CORRELATIONID=6b174e9bac3b3 &ACK=Success
&VERSION=52%2e000000
&BUILD=1%2e0006
&TOKEN=EC%2d1NK66318YB717835M
&EMAIL=jsmith01@example.com
&PAYERID=7AKUSARZ7SAT8
&PAYERSTATUS=verified
&FIRSTNAME=...
&LASTNAME=...
&COUNTRYCODE=US
&BUSINESS=...
&SHIPTONAME=...
&SHIPTOSTREET=...
&SHIPTOCITY=...
&SHIPTOSTATE=CA
&SHIPTOCOUNTRYCODE=US
&SHIPTOCOUNTRYNAME=United%20States
&SHIPTOZIP=94666
&ADDRESSID=...
&ADDRESSSTATUS=Confirmed
```

6. Invoke a form on your site that invokes the DoExpressCheckoutPayment API operation on the Sandbox:

7. Review the response string from the DoExpressCheckoutPayment API operation.

If the operation was successful, the response should include ACK set to Success, as follows:

```
TIMESTAMP=2007%2d04%2d05T23%3a30%3a16Z
&CORRELATIONID=333fb808bb23 &ACK=Success
&VERSION=52%2e000000
&BUILD=1%2e0006
&TOKEN=EC%2d1NK66318YB717835M
&TRANSACTIONID=043144440L487742J
&TRANSACTIONTYPE=expresscheckout
&PAYMENTTYPE=instant
&ORDERTIME=2007%2d04%2d05T23%3a30%3a14Z
&AMT=19%2e95
&CURRENCYCODE=USD
```

&REASONCODE=None

&TAXAMT=0%2e00

&PAYMENTSTATUS=Completed &PENDINGREASON=None

&FEEAMT=0%2e43

Testing an Express Checkout Integration

7

Customizing Express Checkout

You can specify options in Express Checkout API requests that change the appearance, behavior, and flow of the checkout process.

- PayPal Review Page Order Details
- PayPal Page Style
- Changing the Locale
- Handling Shipping Addresses
- Requiring a Contact Telephone Number
- User Confirms Order on PayPal
- Express Checkout for eBay Auctions

PayPal Review Page Order Details

NOTE: The DoExpressCheckoutPayment request includes the same order details and eBay auction incentive parameters as SetExpressCheckout. It is strongly recommended that you submit the same parameters in both API calls.

When a buyer logs into PayPal to check out, you can present the buyer with detailed information about each item in the shopping cart (see PayPal Review Page With Order Details):

- (1) Item name. The item name can identify this item to distinguish it from other line items in the order.
- (2) Item number. Each item can be further identified by an item number. If the item is an eBay auction item, it is recommended that you provide the eBay item number in this field.
- (3) Item description. This field identifies which of several items the buyer is purchasing. For example, you may be offering an item in different sizes. Knowing the size helps the buyer decide whether the one they selected was appropriate. If the item is an eBay auction item, it is recommended that you provide the phrase "eBay item" in this field.
- (4) Item unit price. This field specifies exactly how much one unit of the item costs. It can be a positive or negative value but not zero.
- (5) Item unit quantity. This field identifies the number of units the buyer is ordering.

PayPal calculates the value in the Amount (6) column as the product of line-item unit price and line-item unit quantity.

You can also show other detailed information about the order:

(7) – Item total and tax. These are the respective total of all items in the order and the tax.

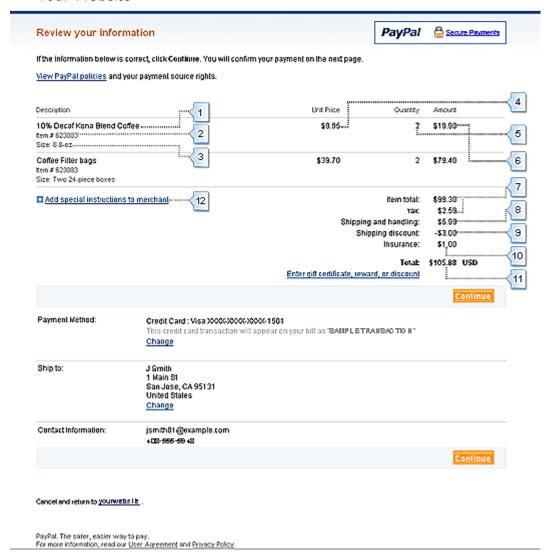
Customizing Express Checkout

PayPal Review Page Order Details

- (8) Shipping and handling. PayPal sums the shipping and handling amounts in this field. (You determine actual shipping and handling amounts.)
- (9) Shipping discount. If the buyer is receiving a discount on shipping, the value appears as a credit in this field.
- (10) Insurance. If there is insurance on shipping, the insurance fee is shown in this field.
- (11) Total. This is the total of the order, including shipping, handling, tax, and other price adjustment-related items.
- **NOTE:** The 'Enter gift certificate, reward, or discount' link enables the buyer to redeem certificates, rewards, or discounts PayPal issues. The link does not enable the buyer to redeem incentives that you issue.
- (12) Note. You can allow the buyer to send you special instructions about the order in a text box that appears when the buyer clicks this link.

PayPal Review Page With Order Details

Your Website



Special Instructions to Merchant

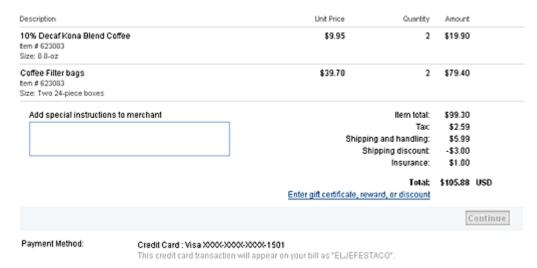
You can allow the buyer to send you special instructions about an order. This feature is especially helpful to buyers who want to customize merchandise. A buyer also might want to tell you to ship their order at a later date because they are out of the country.

NOTE: Users of this feature should be sure to read the instructions the buyer sends.

This feature appears as the link just below the item description on the PayPal Review page (12). When the buyer clicks the Add special instructions to merchant link, a text box opens, as shown in Special Instructions Text Box. After the buyer enters special instructions and clicks

Continue, the instructions are returned in the responses to GetExpressCheckoutDetails and DoExpressCheckoutPayment.

Special Instructions Text Box



Integrating Order Details into the Express Checkout Flow

To integrate order details into the checkout flow, pass the Express Checkout parameters described in SetExpressCheckout Order Details Parameters to SetExpressCheckout.

SetExpressCheckout Order Details Parameters

NVP Field	SOAP Field	Description and Comments
L_NAMEn	Name	Item name.
L_NUMBERn	Number	Item number.
L_DESCn	Description	Item description. The DESC (NVP) and OrderDescription (SOAP) fields still exist for backwards compatibility. However, L_DESCn and Description enable you to provide a more precise description for each different item purchased such as hiking boots or cooking utensils rather than one general purpose description such as camping supplies.
L_AMTn	Amount	Item unit price. PayPal calculates the product of the item unit price and item unit quantity (below) in the Amount column of the PayPal Review page, as shown in PayPal Review Page With Order Details. The item unit price can be a positive or a negative value but not 0. You may provide a negative value to reflect a discount on an order, for example.
L_QTYn	Quantity	Item unit quantity.
ITEMAMT	ItemTotal	Sum of cost of all items in this order.
TAXAMT	TaxTotal	Sum of tax for all items in this order.
SHIPPINGAMT	ShippingTotal	Total shipping cost for this order. PayPal calculates the sum of the shipping cost and the handling cost (below) in the PayPal Review page, as shown at (8) in PayPal Review Page With Order Details. Pass in a shipping amount that is reasonably accurate, because you may need to change it later on your final checkout page. You might assume, for example, the buyer lives in California because your business is in California.
HANDLINGAMT	HandlingTotal	Total handling cost for this order. PayPal calculates the sum of the handling cost and the shipping cost (above), as shown at (8) in PayPal Review Page With Order Details.
SHIPDISCAMT	ShippingDiscoun t	Shipping discount for this order. You specify this value as a negative number.
INSURANCEAMT	InsuranceAmount	Total shipping insurance cost for this order.
AMT	OrderTotal	Total of order, including shipping, handling, tax, and any other billing adjustments such as a credit due.
ALLOWNOTE	AllowNote	Provide a value of 1 to indicate that the buyer may enter a note to you on the PayPal Review page during checkout. See Special Instructions Text Box.

The following example shows how to set the above parameters in the call to ${\tt SetExpressCheckout}.$

Request Parameters:

```
[requiredSecurityParameters]
&METHOD=SetExpressCheckout
&RETURNURL=http://...
&CANCELURL=http://...
&PAYMENTACTION=Sale
&NAME=J Smith
&SHIPTOSTREET=1 Main St
&SHIPTOCITY=San Jose
&SHIPTOSTATE=CA
&SHIPTOCOUNTRYCODE=US
&SHIPTOZIP=95131
&L NAME0=10% Decaf Kona Blend Coffee
&L NUMBER0=623083
&L DESC0=Size: 8.8-oz
&L AMT0=9.95
&L QTY0=2
&L NAME1=Coffee Filter bags
&L NUMBER1=6230
&L DESC1=Size: Two 24-piece boxes
&L AMT1=39.70
&L QTY1=2
&ITEMAMT=99.30
&TAXAMT=2.59
&SHIPPINGAMT=3.00
&HANDLINGAMT=2.99
&SHIPDISCAMT=-3.00
&INSURANCEAMT=1.00
&AMT=105.88
&CURRENCYCODE=USD
&ALLOWNOTE=1
```

Response Parameters

[successResponseFields]

&TOKEN=EC-17C76533PL706494P

You can provide values for any subset of the Express Checkout parameters shown in SetExpressCheckout Order Details Parameters in the call to SetExpressCheckout.

If you pass the generic order description parameter (DESC) and any one line-item parameter listed below, both parameter values display on the Review page. If you pass the generic order description parameter (DESC) along with any two of the following line-item parameters, the order description value does not display.

- L NAMEn
- L NUMBERn
- L DESCn

If you pass in unit price information (L_AMTn) without passing in the unit quantity (L_QTYn), the unit price will not display. To show both values, you must pass in values for both parameters. You can pass in a value of 1 even if the item purchase is uncountable.

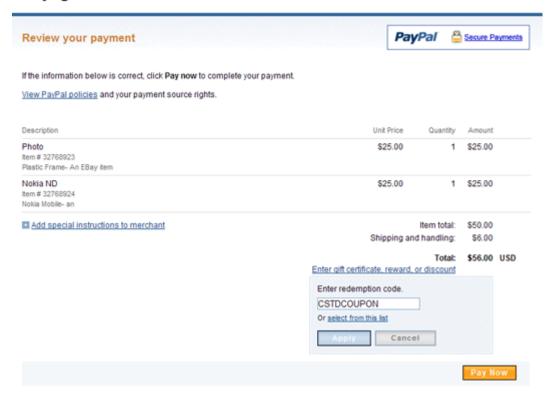
eBay-Issued Incentives

If the buyer's checkout includes eBay auction items, you must set additional fields in the call to SetExpressCheckout to enable buyers to choose from eBay-issued incentives such as eBay gift certificates, coupons, vouchers, and gift cards that may apply to their order.

To enable the display of eBay incentives on the PayPal Review page, you also must provide line item detail information for each eBay item. When the buyer clicks the Enter gift certificate, reward, or discount link, a dialog displays in which the buyer can either enter a redemption code or select from a list of all discounts applicable to eBay items in the cart display as shown below. If multiple items display, the buyer can select from the discounts they want applied to their order.

Dialog for entering redemption code or choosing discounts

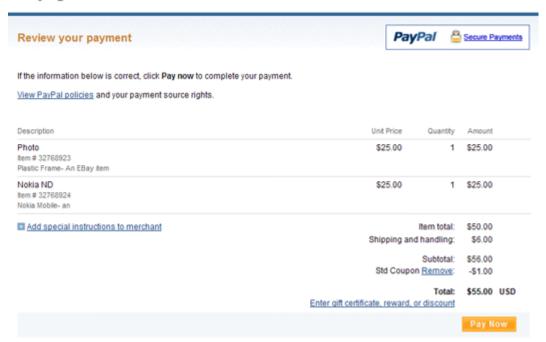
Voyage Travel



After entering a redemption code or selecting the incentives, the PayPal Review page reflects changes to the order. Incentives appear as credits and a new Total is calculated as shown below.

New Total after applying incentives

Voyage Travel



Integrating eBay Incentives into the Express Checkout Flow

To integrate eBay incentives into the checkout flow:

- 1. Pass the following parameters and settings in the call to SetExpressCheckout.
 - PAYMENTACTION must be Sale
 - CHANNELTYPE must be eBayItem

NOTE: For eBay auctions, you cannot set PAYMENTACTION to Authorization or Order. You must set PAYMENTACTION to Sale.

- 2. For each eBay line item, do one of the following (mutually exclusive choices):
 - For each individual eBay entry, pass the values returned by eBay when setting up the auction item descriptions in the parameters below:
 - L EBAYITEMNUMBER n and L EBAYITEMAUCTIONTXNID n
 - For multiple eBay items offered as a single order, pass the value returned by eBay when setting up the auction order description in the parameter below:
 - L EBAYITEMORDERIDn
- **3.** The value of useraction must be commit so the Express Checkout flow displays a **Pay** button and the merchant can bypass any order review page.

4. It is recommended to pass the phrase "eBay item" in L DESCn and the eBay Item Number in L NUMBERn.

NOTE: eBay maintains detailed information about each item sold in eBay auctions. If you set the value for SHIPPINGAMT in the call to SetExpressCheckout, for example, you do not need to be concerned about the shipping cost for individual items. eBay calculates incentives based on its database, not from the values you pass in the SetExpressCheckout call.

The following example passes order details and eBay incentives for two eBay auction items:

Request Parameters:

```
[requiredSecurityParameters]
```

&METHOD=SetExpressCheckout &RETURNURL=http://coffee2go.com &CANCELURL=http://cancel.com

&PAYMENTACTION=Sale

&EMAIL=jsmith01@example.com &NAME=J Smith &SHIPTOSTREET=1 Main St &SHIPTOCITY=San Jose &SHIPTOSTATE=CA &SHIPTOCOUNTRYCODE=US &SHIPTOZIP=95131 &L NAMEO=Photo &L NUMBER0=32768923 &L DESCO=Plastic Frame- An EBay item &L AMT0=25.00

&L EBAYITEMNUMBER0=32768923

&L EBAYITEMAUCTIONTXNID0=0

&L QTY0=1

&L NAME1=Nokia ND &L NUMBER1=32768924 &L DESC1=Nokia Mobile- an EBay item &L AMT1=25.00 &L QTY1=1

&L EBAYITEMNUMBER1=32768924

&L EBAYITEMAUCTIONTXNID1=7225687004

&CHANNELTYPE=eBayItem

&ITEMAMT=50.00 &SHIPPINGAMT=3.00 &HANDLINGAMT=3.00 &AMT=56.00 &CURRENCYCODE=USD &ALLOWNOTE=1

Response Parameters

[successResponseFields]

&TOKEN=EC-2HX34015EC629990M

PayPal Page Style

You can change the default PayPal review page by defining a custom page style or customizing individual page style characteristics.

You set the page style in the call to SetExpressCheckout or by using the PayPal Profile. Typically, you use the Profile; however, you can call SetExpressCheckout if you need to specify this information dynamically.

Custom Page Style

When your buyer logs into PayPal to check out, you can make the PayPal pages the buyer sees appear to have a similar look and feel to those on your website. You can customize any of these page characteristics and save the results as a Page Style Name: Up to three unique Page Style Names can be defined in your account. You can specify the following items:

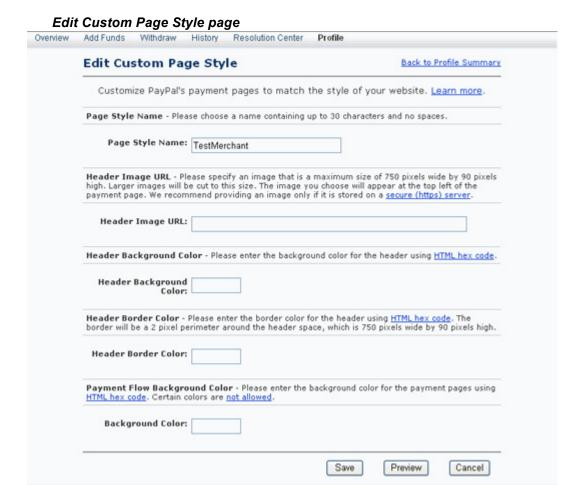
- Header image
- Header border color
- Header background color
- Page background color

To customize a page style:

- 1. Log in to your PayPal account.
- 2. From the Account Overview, click Profile.
- 3. Click Custom Payment Pages. This takes you to the Custom Payment Page Styles page.
- **4.** Click Edit to edit the page style characteristics.

For detailed help on customizing PayPal pages, follow the Learn More link.

5. Enter the page characteristics you want to set on the Edit Custom Page Style page.



- **6.** Include the optional PAGESTYLE parameter in the call to SetExpressCheckout.
- **7.** Set PAGESTYLE to the Page Style Name you defined in your account, for example, TestMerchant.

The following example sets PAGESTYLE to the Page Style Name, TestMerchant. TestMerchant sets the header image to the URL of a custom header image.

Request Parameters

[requiredSecurityParameters] &METHOD=SetExpressCheckout

&RETURNURL=https://... &CANCELURL=https://... &AMT=10.00&CURRENCYCODE=USD &PAYMENTACTION=Sale&

& PAGESTYLE=TestMerchant

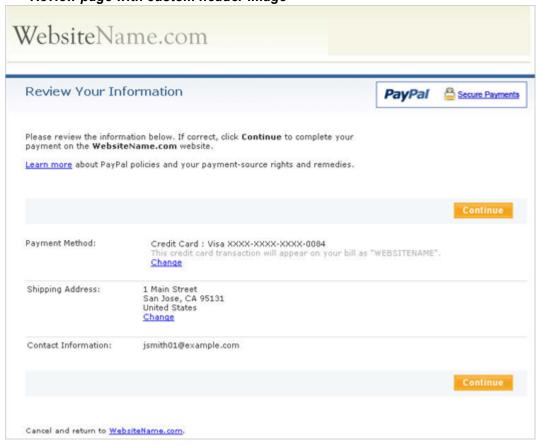
&SHIPTOSTREET=1 Main St SHIPTOSTREET2= &SHIPTOCITY=San Jose &SHIPTOSTATE=CA &SHIPTOCOUNTRYCODE=US &SHIPTOZIP=95131 &PHONENUM=408-967-4444

Response Parameters

[successResponseFields]

&TOKEN=EC-17C76533PL706494P

The figure below shows the review page with a custom header image.



Review page with custom header image

Individual Page Style Characteristics

Typically, you create a custom page style for the PayPal pages using the Custom Payment Pages option from the PayPal Profile tab. In cases where you do not want to use the Profile option, you can specify any of the individual page style characteristics:

- Header image
- Header border color
- Header background color
- Page background color

To define a header image such as your company logo:

- 1. Create a header image up to 750 pixels wide by 90 pixels high, and save it in a valid graphics format such as .gif, .jpg, or .png.
- 2. Store the URL to the image on a secure (https) server so your buyer's web browser does not display a message that the payment contains insecure items.
- 3. Assign the URL to the HDRIMG parameter in the call to SetExpressCheckout.

The following example sets HDRIMG to a custom header image.

Request Parameters

[requiredSecurityParameters]

&METHOD=SetExpressCheckout

&RETURNURL=https://... &CANCELURL=https://... &AMT=10.00 &MAXAMT= &PAYMENTACTION=Sale

&HDRIMG=https://www.mayadeviimports.com/ebay/websitename-logo.gif

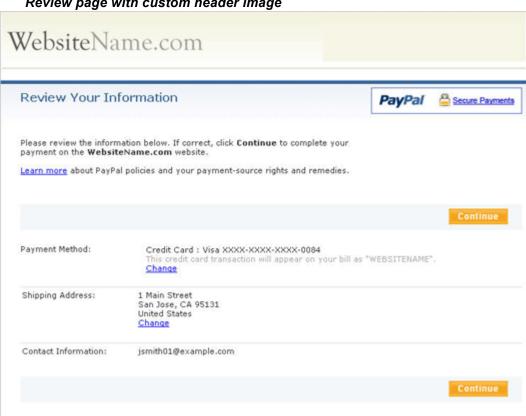
&SHIPTOSTREET=1 Main St &SHIPTOCITY=San Jose &SHIPTOSTATE=CA &SHIPTOCOUNTRYCODE=US &SHIPTOZIP=95131 &PHONENUM=408-967-4444

Response Parameters

[successResponseFields]

&TOKEN=EC-17C76533PL706494P

The figure below shows the review page with a custom header image set in the SetExpressCheckout request.



Review page with custom header image

The following example sets colors for the header background (HDRBACKCOLOR) and header border (HDRBORDERCOLOR).

Request Parameters

[requiredSecurityParameters]

Cancel and return to WebsiteName.com.

&METHOD=SetExpressCheckout

&RETURNURL=https://...

&CANCELURL=https://...&AMT=10.00&MAXAMT=

&PAYMENTACTION=Sale

&HDRBACKCOLOR=FFFF66

&HDRBORDERCOLOR=996666

&SHIPTOSTREET=1 Main St

&SHIPTOCITY=San Jose

&SHIPTOSTATE=CA

&SHIPTOCOUNTRYCODE=US

&SHIPTOZIP=95131

&PHONENUM=408-967-4444

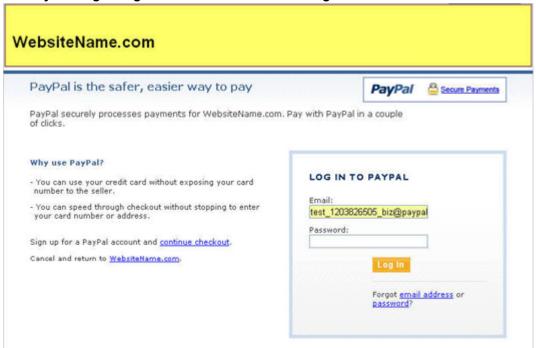
Response Parameters

[successResponseFields]

&TOKEN=EC-17C76533PL706494P

The figure below shows the PayPal Login page with HDRBACKCOLOR and HDRBORDERCOLOR set to custom colors.

PayPal Login Page With Custom Header Background and Border Colors



Changing the Locale

You can change the locale of PayPal pages to match the language on your website.

To change the language displayed on the PayPal Login page, set the LOCALECODE parameter to one of the following allowable values in the SetExpressCheckout call:

- AU
- DE
- FR
- GB
- IT
- ES
- JP
- US

The following example sets LOCALCODE to ES (Spain).

Request Parameters

[requiredSecurityParameters] &METHOD=SetExpressCheckout

&RETURNURL=https://... &CANCELURL=https://... &AMT=10.00 &CURRENCYCODE=EUR PAYMENTACTION=Sale

&LOCALECODE=ES

&SHIPTOSTREET=1 Main St &SHIPTOSTREET2= &SHIPTOCITY=San Jose &SHIPTOSTATE=CA &SHIPTOCOUNTRYCODE=US &SHIPTOZIP=95131 &PHONENUM=408-967-4444

Response Parameters

[successResponseFields]

&TOKEN=EC-17C76533PL706494P

The figure below shows the PayPal Login page when the LOCALECODE is set to ES.

PayPal login page in Spanish



Handling Shipping Addresses

You can specify several shipping address options that affect the PayPal review page. In your SetExpressCheckout request, you can specify the following options:

Require a confirmed address

Customizing Express Checkout

Handling Shipping Addresses

- Not display the shipping address on the review page
- Display an alternative address on the review page.

Confirmed Address

A *confirmed address* is a shipping address that PayPal has established as belonging to the PayPal account holder. To be protected by PayPal's Seller Protection Policy, you must require the shipping address be a confirmed address.

NOTE: Because many buyers prefer to ship to a non-confirmed address, PayPal does not recommend requiring a confirmed address unless you are selling high-risk merchandise. If you prefer confirmed addresses be used, then do not set ADDROVERRIDE, as described in Shipping Address Override.

To require a confirmed address for the shipping address:

- 1. Ensure that the shipping address matches the address on record with PayPal.
- 2. Include the optional REQCONFIRMSHIPPING parameter in the call to SetExpressCheckout.
- **3.** Set REQCONFIRMSHIPPING to 1.

The following example requires the shipping address be a confirmed address.

NOTE: The value of REQCONFIRMSHIPPING overrides the setting in your Merchant Account Profile.

Request Parameters

[requiredSecurityParameters]

&METHOD=SetExpressCheckout

&RETURNURL=https://...
&CANCELURL=https://...
&AMT=10.00
&PAYMENTACTION=Sale
&REQCONFIRMSHIPPING=1
&SHIPTOSTREET=1 Main St
&SHIPTOCITY=San Jose
&SHIPTOSTATE=CA
&SHIPTOCOUNTRYCODE=US
&SHIPTOZIP=95131

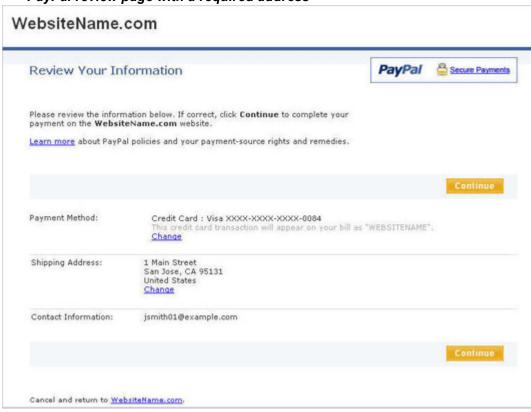
Response Parameters

&PHONENUM=408-967-4444

[successResponseFields]

&TOKEN=EC-6UA07551EA393551U

The figure below shows the PayPal review page when REQCONFIRMSHIPPING is set to 1.



PayPal review page with a required address

Suppressing the Buyer's Shipping Address

You can suppress the display of the buyer's shipping address on the PayPal pages. You might want to do this in these cases:

- You are selling a product or service that does not require shipping.
- You prefer to handle addresses completely on your own and do not want to let buyers choose from their PayPal address book.

To suppress the display of the buyer's shipping address, set the NOSHIPPING parameter to 1 in the call to SetExpressCheckout. No shipping address displays on the PayPal pages whatsoever.

The following example suppresses the shipping address.

Request Parameters

[requiredSecurityParameters] &METHOD=SetExpressCheckout

&RETURNURL=https://...
&CANCELURL=https://...
&AMT=10.00
&CURRENCYCODE=USD
&PAYMENTACTION=Sale
&NOSHIPPING=1
&SHIPTOSTREET=1 Main St
SHIPTOCITY=San Jose
&SHIPTOSTATE=CA

&SHIPTOCOUNTRYCODE=US &SHIPTOZIP=95131

&PHONENUM=408-967-4444

Response Parameters

[successResponseFields]

&TOKEN=EC-17C76533PL706494P

The figure below shows the PayPal review page when NOSHIPPING is set to 1.

PayPal review page with shipping address suppressed



Shipping Address Override

Overriding the shipping address stored on PayPal replaces it with one you specify in the call to SetExpressCheckout. The buyer cannot edit the overridden address.

NOTE: If you prefer to override addresses, it is recommended that you do not set confirmed addresses as required, as described in Confirmed Address.

To override the shipping address:

- 1. Set the ADDROVERRIDE parameter to 1 in the call to SetExpressCheckout.
- 2. Set the following shipping address parameters in the call to SetExpressCheckout to the address values you want to use for the new address.
 - SHIPTONAME
 - SHIPTOSTREET
 - SHIPTOCITY
 - SHIPTOSTATE (Optional)
 - SHIPTOCOUNTRYCODE
 - SHIPTOZIP
 - SHIPTOSTREET2 (Optional)

The following example overrides the shipping address with the address values shown.

Request Parameters

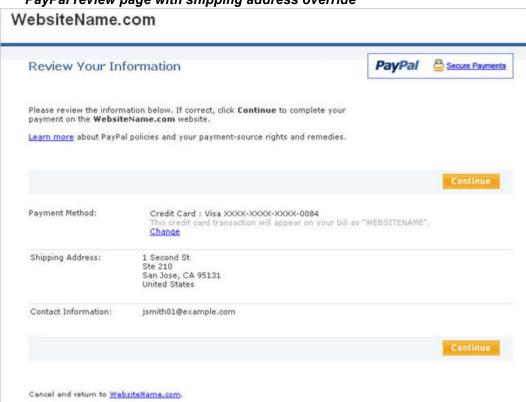
Response Parameters

&PHONENUM=408-967-4444

[successResponseFields]

&TOKEN=EC-57K68322WE343022B

The figure below shows the PayPal Review page when the shipping address parameters are overridden by the values shown in the above example.



PayPal review page with shipping address override

Requiring a Contact Telephone Number

You can require the buyer to provide a phone number as part of the contact information on the PayPal review page.

You have three options for requesting the contact telephone number from within PayPal checkout. You set your choice in Website Payment Preferences in your Profile:

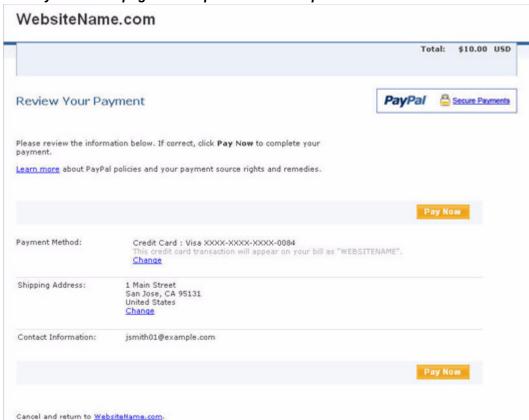
- Not request the contact telephone number (default)
- Request the contact telephone number as an optional field
- Require that the buyer enter their contact telephone number to proceed.

To choose how you want to handle the buyer's contact telephone number:

- **1.** Log in to your PayPal account.
- **2.** From the Profile tab, click Website Payments Preferences.
- **3.** Choose from the three options for handling the contact telephone number at the bottom of the screen.

When the contact telephone number is required, a telephone number displays in the Contact Information along with text indicating that you require the buyer's telephone number, as

shown in the figure below. The buyer may click Change and enter their correct contact telephone number in the dialog box that appears, as shown in the figure below.



PayPal review page that requiries a contact phone number

User Confirms Order on PayPal

If you do not require the buyer to explicitly review and confirm the order on your site, you can configure Express Checkout such that the user commits the payment on PayPal. This reduces a step in the checkout flow.

You may want to eliminate your "Review Order" page if there is no additional information you want to collect from the user before they complete the transaction. It is recommended that you collect the information *after* the buyer completes the purchase.

You should evaluate each Express Checkout flow separately through the cart page and through the payment methods page. In most checkout flow implementations, the payment methods page is the last page the buyer sees before committing to a transaction. If this true in your implementation, you can use this feature to streamline the buyer experience. The feature informs the buyer that they are committing to the transaction if they proceed.

Customizing Express Checkout

User Confirms Order on PayPal

To invoke this feature, use the useraction variable in the SetExpressCheckout call. Setting useraction to commit sets the button text on the PayPal Payment Review page to read **Pay Now**. (After the buyer returns from the PayPal site, you must call DoExpressCheckoutPayment to actually complete the transaction.)

To display **Pay Now** on the button:

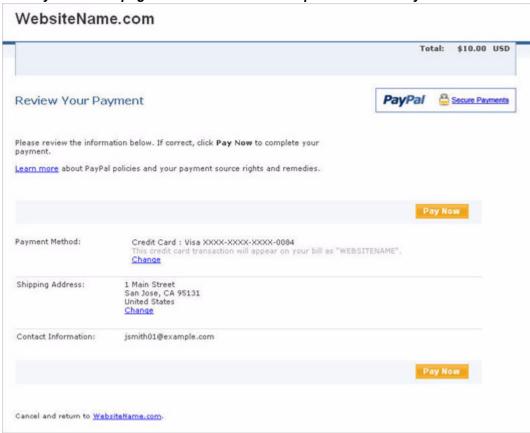
1. Get the token from the response to SetExpressCheckout.

The response to SetExpressCheckout is the buyer's token. For example, if the value of RETURNURL passed to SetExpressCheckout is https://www.websitename.com/snagECvalues, the URL to which PayPal redirects appears as https://www.websitename.com/snagECvalues?token=EC-0W8920957N684880R

2. Add the token and the desired *useraction* value (continue or commit) as name-value pairs to the following URL:

https://www.paypal.com/cgi-bin/webscr?cmd=_express-checkout&token=valueFromSetExpressCheckoutResponse&useraction=commit

The figure below shows the PayPal Review page when useraction=commit.



PayPal review page when user commits to purchanse on PayPal

Express Checkout for eBay Auctions

You can provide Express Checkout for an eBay auction and mix eBay and non-eBay transactions in the same transaction.

If the buyer's checkout includes eBay auctions, there are additional fields that you must set to control the behavior of Express Checkout.

- 1. Pass the following parameters and settings in the call to SetExpressCheckout.
 - PAYMENTACTION must be Sale
 - CHANNELTYPE must be eBayItem

NOTE: For eBay auctions, you cannot set PAYMENTACTION to Authorization or Order. You must set PAYMENTACTION to Sale.

- 2. In the DoExpressCheckoutPayment request, you must set PAYMENTACTION to Sale.
- **3.** In the DoExpressCheckoutPayment request, you also must set the line item details for each eBay auction.

NOTE: DoExpressCheckoutPayment includes the same order details and eBay auction parameters as SetExpressCheckout. It is strongly suggested that, if you submitted line-item detail parameter data in SetExpressCheckout, you submit the same parameter data in the call to DoExpressCheckoutPayment. This ensures that order details display on the PayPal Review page and payment is properly reflected in My eBay and in PayPal transaction details.

For each eBay line item, do one of the following (mutually exclusive choices) in the call to DoExpressCheckoutPayment:

- For each individual eBay entry, pass the values returned by eBay when setting up the auction item descriptions in the parameters below:
 - L EBAYITEMNUMBERn and L EBAYITEMAUCTIONTXNIDn
- For multiple eBay items offered as a single order, pass the value returned by eBay when setting up the auction order description in the parameter below:
 - L EBAYITEMORDERIDn
 - **NOTE:** You must provide line item details for your buyer to be able to see the transaction on My eBay and to qualify for PayPal Buyer Protection.
- **4.** To properly reflect discounts, you can also supply negative line items, as in the following example:

Request Parameters

[requiredSecurityParameters]

&METHOD=DoExpressCheckoutPayment

&TOKEN=EC-47C20533CU265432F &PAYERID=95HR9CM6D56Q2

&PAYMENTACTION=Sale

&AMT=14.99

&ITEMAMT=14.99

&L_NAME0=Item0

&L AMT0=19.99

&L EBAYITEMNUMBER0=230128323048

&L EBAYITEMAUCTIONTXNID0=0

Response Parameters

[successResponseFields]

&REASONCODE=None

&TOKEN=EC-47C20533CU265432F &TRANSACTIONID=59L39584YA765250B &TRANSACTIONTYPE=expresscheckout &PAYMENTTYPE=instant &ORDERTIME=2006-08-23T16:08:12Z &AMT=14.99 &CRRENCYCODE=USD &FEEAMT=0.00 &TAXAMT=0.00 &PAYMENTSTATUS=Completed &PENDINGREASON=None

Customizing Express Checkout

Express Checkout for eBay Auctions

NOTE: The value that you supply for AMT must equal the total of the line item amounts that you supply.

Customizing Express Checkout

Express Checkout for eBay Auctions

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Handling Payment Settlements

You can use PayPal API operations to handle the capture of payments authorized using Express Checkout and manage Express Checkout authorization and order payment actions.

- Sale Payment Action
- Authorization Payment Action
- Order Payment Action

Sale Payment Action

A *sale* payment action represents a single payment that completes a purchase for a specified amount.

A sale is the default Express Checkout payment action; however, you can also specify the following action in your SetExpressCheckout and DoExpressCheckoutPayment requests:

PAYMENTACTION=Sale

A sale is the most straightforward payment action. Choose this payment action if the transaction, including shipping of goods, can be completed immediately. To use this payment action:

- The final amount of the payment must be known when you invoke the DoExpressCheckoutPayment API operation
- You should intend to fulfill the order immediately, such as would be the case for digital goods or for items you have in stock for immediate shipment

After you execute the DoExpressCheckoutPayment API operation, the payment is complete and further action is unnecessary. You cannot capture a further payment or void any part of the payment when you use this payment action.

Authorization Payment Action

An *authorization* payment action represents an agreement to pay and places the buyer's funds on hold for up to three days.

To set up an authorization, specify the following payment action in your SetExpressCheckout and DoExpressCheckoutPayment requests:

PAYMENTACTION=Authorization

An authorization enables you to capture multiple payments up to 115% of, or USD \$75 more than, the amount you specify in the DoExpressCheckoutPayment request. Choose this payment action if you need to ship the goods before capturing the payment or if there is some reason not to accept the payment immediately.

The *honor period*, for which funds can be held, is three days. The *valid period*, for which the authorization is valid, is 29 days. You can reauthorize the 3-day honor period at most once within the 29-day valid period.

You can void an authorization, in which case, the uncaptured part of the amount specified in the DoExpressCheckoutPayment request becomes void and can no longer be captured. If no part of the payment has been captured, the entire payment becomes void and nothing can be captured.

API operations associated with authorization payment actions

API Operation	Description	
DoCapture	Capture an authorized payment	
DoReauthorization	Reauthorize a payment	
DoVoid	Void an order or an authorization	

Order Payment Action

An *order* payment action represents an agreement to pay one or more authorized amounts up to the specified total over a maximum of 29 days.

To set up an order, specify the following payment action in your SetExpressCheckout and DoExpressCheckoutPayment requests:

PAYMENTACTION=Order

An order enables you to create multiple authorizations over the 29 days; each authorization you create places the buyer's funds on hold for up to three days. You can capture multiple payments for each authorization, up to 115% of, or USD \$75 more than, the amount you specify in the DoExpressCheckoutPayment request.

This payment action provides the most flexibility and should be used when either a sale or one authorization plus one reauthorization do not meet your needs. Situations in which orders are appropriate include the handling of

- Back orders, in which available merchandise is sent immediately and the remaining merchandise is sent when available, which may include more than two shipments
- Split orders, in which merchandise is sent in more than one shipment, perhaps to different addresses, and you want to collect a payment for each shipment
- Drop shipments, which are shipments from other vendors for which you accept the payment

You cannot reauthorize an authorization. You handle the need to reauthorize, for example when the hold period or valid period of an authorization expires, simply by creating another authorization.

You can void an order or an authorization created from the order. If you void an order, the uncaptured part of the amount specified in the DoExpressCheckoutPayment request becomes void and can no longer be captured. If no part of the payment has been captured, the entire payment becomes void and nothing can be captured.

If you void an authorization associated with the order, the uncaptured part of the amount specified in the authorization becomes void and can no longer be captured. If no part of the authorization has been captured, the entire authorized payment becomes void.

API operations associated with order payment actions

API Operation	Description
DoAuthorization	Authorize a payment
DoCapture	Capture an authorized payment
DoVoid	Void an order or an authorization

Handling Payment Settlements

Order Payment Action

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Handling Recurring Payments

Set up a recurring payment to handle subscription and other payments that occur on a fixed schedule.

- Recurring Payments Demo
- How Recurring Payments Work
- Recurring Payments Terms
- Recurring Payments With Express Checkout
- Options for Creating a Recurring Payments Profile
- Recurring Payments Profile Status
- Getting Recurring Payments Profile Information
- Modifying a Recurring Payments Profile
- Billing the Outstanding Amount of a Profile
- Recurring Payments Notifications

How Recurring Payments Work

When you create recurring payments for a buyer, you create a *recurring payments profile*. The profile contains information about the recurring payments, including details for an optional trial period and a regular payment period. Each of these subscription periods contains information about the payment frequency and payment amounts, including shipping and tax, if applicable.

After a profile is created, PayPal automatically queues payments based on the billing start date, billing frequency, and billing amount, until the profile expires or is canceled by the merchant. The buyer can also cancel the recurring payments profile.

Note that the queued payments are funded using the normal funding source hierarchy within the buyer's PayPal account.

After the recurring payments profile is created, you can view recurring payments details or cancel the recurring payments profile from your PayPal account. You can also access recurring payments reports from the PayPal **Business Overview** page.

Also, after creating a recurring payments profile, you can use the Recurring Payments API to do the following:

- Get information details about a recurring payments profile.
- Change the status of a recurring payment profile.
- Update the details of the recurring payments profile.

Recurring Payments Terms

• Bill the outstanding amount of the recurring payments profile.

Limitations

The current release of the Recurring Payments API has the following limitations:

- A profile can have at most one optional trial period and a single regular payment period.
- The profile start date may not be earlier than the profile creation date.

Recurring payments with Express Checkout also has the following limitations:

- At most ten recurring payments profiles can be created during checkout.
- You can only increase the profile amount by 20% in each 180-day interval after the profile is created.

Recurring Payments Terms

Some terms are commonly used by PayPal in the context of recurring payments.

Recurring payments terms

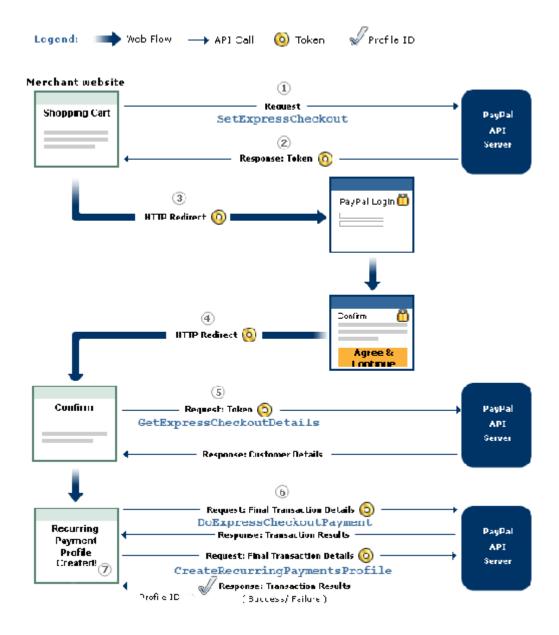
Term	Definition
Recurring payments profile	Your record of a recurring transaction for a single customer. The profile includes all information required to automatically bill the buyer a fixed amount of money at a fixed interval.
Billing cycle	 One payment is made per billing cycle. Each billing cycle is made up of two components. The billing period specifies the unit to be used to calculate the billing cycle (such as days or months). The billing frequency specifies the number of billing periods that make up the billing cycle.
	For example, if the billing period is Month and the billing frequency is 2, the billing cycle will be two months. If the billing period is Week and the billing frequency is 6, the payments will be scheduled every 6 weeks.
Regular payment period	The main subscription period for this profile, which defines a payment amount for each billing cycle. The regular payment period begins after the trial period, if a trial period is specified for the profile.
Trial period	An optional subscription period before the regular payment period begins. A trial period may not have the same billing cycles and payment amounts as the regular payment period.
Payment amount	The amount to be paid by the buyer for each billing cycle.

Term	Definition	
Outstanding balance	If a payment fails for any reason, that amount is added to the profile's outstanding balance.	
Profile ID	An alphanumeric string (generated by PayPal) that uniquely identifies a recurring profile.	

Recurring Payments With Express Checkout

During the Express Checkout flow, you can create one or more recurring payments and mix recurring payments with other purchases.

The following diagram illustrates the typical processing flow to create recurring payments during checkout.



The circled numbers in the diagram correspond to the following steps:

Recurring payments processing flow

Step	Merchant	PayPal
1	Calls SetExpressCheckout with one or more billing agreement details in the request	
2		Returns a token, which identifies the transaction, to the merchant.
3	Redirects buyer's browser to: https://www.paypal.com/cgi- bin/webscr?cmd=_express-checkout &token= <token by="" returned="" setexpresscheckout=""></token>	
		Displays login page.
		Allows user to select payment options and shipping address.
4		Redirects buyer's browser to returnURL passed to SetExpressCheckout if buyer agrees to payment description.
5	Calls GetExpressCheckoutDetails to get buyer information (optional).	
		Returns GetExpressCheckoutDetails response.
	Displays merchant review page for buyer.	
6	Calls DoExpressCheckoutPayment if the order includes one-time purchases as well as a recurring payment. Otherwise, skip this step.	
		Returns DoExpressCheckoutPayment response
	Calls CreateRecurringPaymentsProfile one time for each recurring payment item included in the order.	
		Returns ProfileID in CreateRecurringPaymentsProfile response for each profile successfully created.
7	Displays successful transaction page.	

Initiating the Processing Flow With SetExpressCheckout

As in the Express Checkout flow, the SetExpressCheckout request notifies PayPal that you are initiating an order that can be either a one-time purchase, up to ten recurring payments, or a mixture of a one-time purchase and recurring payments.

NOTE: You can also initiate the processing flow using SetCustomerBillingAgreement for orders that contain only a single recurring payment.

To include one or more recurring payments in the SetExpressCheckout request, you must set the following fields:

SetExpressCheckout request fields for recurring payments

NVP	SOAP	Description
L_BILLINGTYPE <i>n</i>	BillingAgreementDetails.Bil lingType	Type of billing agreement. For recurring payments, this field must be RecurringPayments.
L_BILLINGAGREEMENT DESCRIPTION <i>n</i>	BillingAgreementDetails.Des cription	Description of goods or services associated with the billing agreement.

NOTE: You must include these same values as part of the CreateRecurringPaymentsProfile request.

The SetExpressCheckout response provides a token that uniquely identifies the transaction for subsequent redirects and API calls.

Redirecting the Buyer's Browser to PayPal

After you receive a successful response from SetExpressCheckout, add the TOKEN from the SetExpressCheckout response as a name/value pair to the following URL, and redirect your buyer's browser to it:

https://www.paypal.com/cgi-bin/webscr?cmd=_express_checkout&token=<value from SetExpressCheckoutResponse>

For redirecting the buyer's browser to the PayPal login page, PayPal recommends that you use the HTTPS response 302 "Object Moved" with the URL above as the value of the Location header in the HTTPS response. Ensure that you use an SSL-enabled server to prevent browser warnings about a mix of secure and insecure graphics.

Getting Buyer Details Using GetExpressCheckoutDetails

The GetExpressCheckoutDetails method returns information about the buyer, including name and email address stored on PayPal. You can optionally call this API after PayPal redirects the buyer's browser to the ReturnURL you specified in the SetExpressCheckout request.

The GetExpressCheckoutDetails request has one required parameter, TOKEN, which is the value returned in the SetExpressCheckout response.

Creating the Profiles With CreateRecurringPaymentsProfile

After your buyer has agreed to the recurring payments billing agreement on your confirmation page, you must call CreateRecurringPaymentsProfile to create the profile. If you are creating multiple recurring payments profiles, you must call

CreateRecurringPaymentsProfile once for each profile to be created.

If the transaction includes a mixture of a one-time purchase and recurring payments profiles, call DoExpressCheckoutPayment to complete the one-time purchase transaction, and then call CreateRecurringPaymentsProfile for each recurring payment profile to be created.

IMPORTANT: The recurring payments profile is not created until you receive a success response from the CreateRecurringPaymentsProfile call.

The CreateRecurringPaymentsProfile response contains a Profile ID, which is an encoded string that uniquely identifies the recurring payments profile.

Options for Creating a Recurring Payments Profile

You can create a recurring payments profile that allows a regular payment period, an optional trial period, an initial payment, and other options.

Specifying the Regular Payment Period

Each recurring payments profile has a regular payment period that defines the amount and frequency of the payment. The following table lists the required fields for specifying the regular payment period.

Required fields for specifying a regular payment period

NVP	SOAP	Description
PROFILESTARTDATE	RecurringPaymentsProfileDet The date when billing for ails. BillingStartDate profile begins.	
		NOTE: The profile may take up to 24 hours for activation.
BILLINGPERIOD	ScheduleDetails. PaymentPeriod. BillingPeriod	The unit of measure for the billing cycle. Must be one of: Day Week SemiMonth Month Year

NVP	SOAP	Description
BILLINGFREQUENCY	ScheduleDetails. PaymentPeriod.	Number of billing periods that make up one billing cycle.
	BillingFrequency	NOTE: The combination of billing frequency and billing period must be less than or equal to one year.
		NOTE: If the billing period is SemiMonth., the billing frequency must be 1.
AMT	ScheduleDetails. PaymentPeriod. Amount	Amount to bill for each billing cycle.

You can optionally include a value for TOTALBILLINGCYCLES (SOAP field ScheduleDetails.PaymentPeriod.TotalBillingCycles), which specifies the total number of billing cycles in the regular payment period. If no value is specified or if the value is 0, the payments continue until the profile is canceled or suspended. If the value is greater than 0, the regular payment period will continue for the specified number of billing cycles.

You can also specify an optional shipping amount or tax amount for the regular payment period.

Including an Optional Trial Period

You can optionally include a trial period in the profile by specifying the following fields in the CreateRecurringPaymentsProfile request. The following table lists the required fields for creating an optional trial period.

Required fields for specifying a trial period

NVP	SOAP
TRIALBILLINGPERIOD	ScheduleDetails.TrialPeriod.BillingPeriod
TRIALBILLINGFREQUENCY	ScheduleDetails.TrialPeriod.BillingFrequen cy
TRIALAMT	ScheduleDetails.TrialPeriod.Amount
TRIALTOTALBILLINGCYCLES	ScheduleDetails.TrialPeriod.TotalBillingCy cles

Specifying an Initial Payment

You can optionally specify an initial non-recurring payment when the recurring payments profile is created by including the following fields in the CreateRecurringPaymentsProfile request:

Required fields for specifying an initial payment

NVP	SOAP
INITAMT	ScheduleDetails.ActivationDetails.InitialAmount
FAILEDINITAMTACTION	${\tt Schedule Details.Activation Details.Failed In it Amount \\ {\tt Action}$

By default, PayPal will not activate the profile if the initial payment amount fails. You can override this default behavior by setting the FAILEDINITAMTACTION field to ContinueOnFailure, which indicates that if the initial payment amount fails, PayPal should add the failed payment amount to the outstanding balance due on this recurring payment profile.

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.

The buyer will receive an email stating that the initial payment cleared or that the pending profile has been canceled if the profile was created using Express Checkout.

Maximum Number of Failed Payments

By including the MAXFAILEDPAYMENTS field in the CreateRecurringPaymentsProfile request, you set the number of failed payments allowed before the profile is automatically suspended. You receive an IPN message when the number of failed payments reaches the maximum number specified.

Billing the Outstanding Amount

If a payment fails due to any reason, the amount that was to be billed (including shipping and tax, if applicable) is added to the profile's outstanding balance. Use the AUTOBILLOUTAMT field in the CreateRecurringPaymentsProfile request to specify whether or not the outstanding amount should be added to the payment amount for the next billing cycle.

Whether or not you choose to include the outstanding amount with the payment for the next billing cycle, you can also use the BillOutstandingAmount API to programmatically collect that amount at any time.

Recurring Payments Profile Status

The recurring payments actions you may take, depend on the status of the profile.

A recurring payments profile can have one of the following status values:

- ActiveProfile
- PendingProfile
- ExpiredProfile
- SuspendedProfile
- CancelledProfile

If the profile is successfully created, it has an ActiveProfile status. However, if a non-recurring initial payment fails and FAILEDINITAMTACTION is set to CancelOnFailure in the CreateRecurringPaymentsProfile request, the profile is created with a status of PendingProfile until the initial payment either completes successfully or fails.

A profile has a status of ExpiredProfile when both the total billing cycles for both the optional trial period and the regular payment period have been completed.

You can suspend or cancel a profile by using the

ManageRecurringPaymentsProfileStatus API. You can also reactivate a suspended profile. If the maximum number of failed payments has already been reached, however, you will need to increase the number of failed payments before reactivating the profile.

NOTE: You can also suspend, cancel, or reactive a recurring payments profile through the PayPal website.

For recurring payments profiles created with Express Checkout, the buyer receives an email about the change in status of their recurring payment.

Getting Recurring Payments Profile Information

Use the GetRecurringPaymentsProfileDetails API to get information about a profile.

NOTE: You can also get information about recurring payments profiles from the PayPal website.

Along with the information that you specified in the CreateRecurringPaymentsProfile request, GetRecurringPaymentsProfileDetails also returns the following summary information about the profile:

- Profile status
- Next scheduled billing date
- Number of billing cycles completed in the active subscription period
- Number of billing cycles remaining in the active subscription period
- Current outstanding balance

- Total number of failed billing cycles
- Date of the last successful payment received
- Amount of the last successful payment received

Modifying a Recurring Payments Profile

Use the UpdateRecurringPaymentsProfile API to modify a recurring payments profile.

NOTE: You can also modify recurring payments profiles from the PayPal website.

You can only modify the following specific information about an active or suspended profile:

- Subscriber name or address
- Past due or outstanding amount
- Whether to bill the outstanding amount with the next billing cycle
- Maximum number of failed payments allowed
- Profile description and reference
- Number of additional billing cycles
- Billing amount, tax amount, or shipping amount

NOTE: You cannot modify the billing frequency or billing period of a profile. You can modify the number of billing cycles in the profile.

NOTE: For recurring payments with Express Checkout, certain updates, such as billing amount, are not allowed within 3 days of the scheduled billing date, and an error is returned.

You can modify the following profile information during the trial period or regular payment period.

- Billing amount (excluding tax and shipping)
- Number of billing cycles

The profile changes take effect with the next payment after the call to update the profile. Say, for example, the buyer has made one trial payment out of a total of three.

UpdateRecurringPaymentsProfile is called to increase the number of billing cycles to five. As a result, the buyer will have four additional trial payments to make. If the call to UpdateRecurringPaymentsProfile is made during the regular payment period, the changes take effect with the buyer's next scheduled regular payment.

For complete details, see the *Name-Value Pair Developer Guide and Reference* or the *SOAP API Reference*.

Updating Addresses

When you update the subscriber shipping address, you must enter all of address fields, not just those that are changing:

For example, if you want to update the subscriber's street address, you must specify all of the address fields listed in the *Name-Value Pair Developer Guide and Reference* or *SOAP API Reference*, not just the field for the street address.

Updating the Billing Amount

For profiles created using Express Checkout, the total amount of a recurring payment can only be increased 20% in a fixed 180-day interval after the profile is created. The 20% maximum is based on the total amount of the profile at the beginning of the 180-day interval, including any shipping or tax amount.

For example, if a profile is created on March 10 with a total amount of \$100, then during the 180-day interval from March 10 to September 6, you can increase the payment amount to a maximum of \$120 (120% of \$100).

Suppose that during the first 180-day interval, you increased the payment amount to \$110. Then during the next 180-day interval (starting on September 7 in this example), you can only increase the amount of the payment to a maximum of \$132 (120% of \$110).

Billing the Outstanding Amount of a Profile

Use the BillOutstandingAmount API to immediately bill the buyer for the current past due or outstanding amount for a recurring payments profile.

NOTE: You can also bill the buyer for the current past due or outstanding amount for a recurring payments profile from the PayPal website.

To bill the outstanding amount:

• The profile status must be active or suspended.

NOTE: The BillOutstandingAmount API does not reactivate a suspended profile. You need to call ManageRecurringProfileStatus to do this.

- The profile must have a non-zero outstanding balance.
- The amount of the payment cannot exceed the outstanding amount for the profile.
- The BillOutstandingAmount call cannot be within 24 hours of a regularly scheduled payment for this profile.

NOTE: If another outstanding balance payment is already queued, an API error is returned.

You will be informed by IPN about the success or failure of the outstanding payment. For profiles created using Express Checkout, the buyer will receive an email notification of the payment.

Recurring Payments Notifications

Merchants are notified of recurring payments events through IPN and email.

Merchants are notified of certain events through IPN. For recurring payments profiles created using Express Checkout, buyers are also notified of specific events by email. The following table indicates when IPN and emails are generated.

Recurring payments instant payment notifications and email

Event	IPN	Buyer Email
Profile successfully created	Yes	Yes
Profile creation failed	Yes	Yes
Profile canceled from paypal.com interface	Yes	Yes
Profile status changed using API	No	Yes
Profile update using API	No	Yes
Initial payment either succeeded or failed	Yes	Yes
Payment either succeeded or failed (during either trial period or regular payment period)	Yes	Yes
Outstanding payment either succeeded or failed	Yes	Yes
Maximum number of failed payments reached	Yes	No

NOTE: API transactions such as ManangeRecurringPaymentsProfileStatus do not trigger IPN notification because the success or failure of the call is immediately provided by the API response.

Handling Recurring Payments

Recurring Payments Notifications

Using Other PayPal API Operations

You can use additional PayPal API operations to implement additional features for your buyers or to provide "back office" support.

Issuing Refunds

Issuing Refunds

You can use the RefundTransaction PayPal API operation to issue refunds.

Use the RefundTransaction API to issue one or more refunds associated with a transaction, such as a transaction created by a capture of a payment. The transaction is identified by a transaction ID that PayPal assigns when the payment is captured.

NOTE: You cannot make a refund if the transaction occured more than 60 days ago.

You can refund amounts up to the total amount of the original transaction. If you specify a a full refund, the entire amount is refunded. If you specify a partial refund, you must specify the amount to refund, the currency, and a description of the refund, which is called a *memo*.

When you call the RefundTransaction API, PayPal responds with another transaction ID, which is associated with the refund (not the original transaction), and additional information about the refund. This information identifies

- the gross amount of the refund, which is returned to the payer
- the amount of the refund associated with the original transaction fee, which is returned to you
- the net amount of the refund, which is deducted from your balance

To issue a refund

1. In the RefundTransaction request, specify the transaction ID of the transaction whose payment you want to refund .

```
TRANSACTIONID=transaction id
```

2. Specify the kind of refund, which is either Full or Partial.

```
REFUNDTYPE=Full

or

REFUNDTYPE=Partial
```

Using Other PayPal API Operations

Issuing Refunds

3. For a partial refund, specify the refund amount, including the currency.

AMT=amount
CURRENCYCODE=currencyID

4. For a partial refund, specify the memo description.

NOTE=description

- **5.** Execute the RefundTransaction operation.
- **6.** Check the acknowledgement status in the RefundTransaction response to ensure that the operation was successful.



Integrating giropay with Express Checkout

You must modify your Express Checkout implementation to use giropay, a common German funding source.

- giropay Page Flows
- giropay Integration

giropay Page Flows

If you accept giropay, you must redirect to the giropay website to collect the funds after completing the Express Checkout transaction.

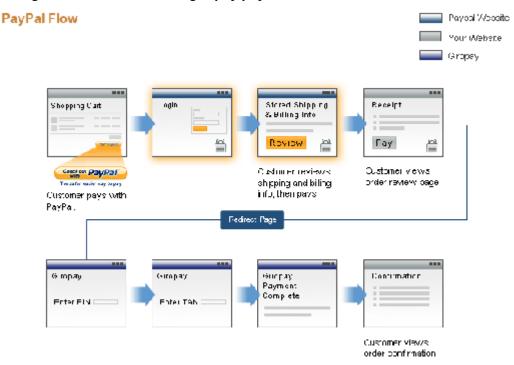
When your customer selects giropay as a funding source during the Express Checkout flow, you redirect the customer to a static PayPal URL after your order review page. PayPal then redirects the customer to the giropay website to push the funds to the merchant. After the giropay payment is successfully completed, the transaction is confirmed.

If the giropay payment fails or is cancelled by the customer, PayPal provides the necessary details for an EFT so that the customer can complete the transaction by pushing funds from his/her bank account. If your PayPal account profile blocks non-instant payments, the transactions is cancelled.

giropay Payment Page Flow

The following diagram illustrates the flow of a successful giropay payment:

Page flow for a successful giropay payment



Cancelled or Unsuccessful giropay Payment Page Flow

If the giropay payment fails for any reason, such as insufficient funds or the customer cancels, PayPal provides details to the customer to do a bank transfer from their bank account. This transaction will remain pending until PayPal receives the funds, at which time the transaction will be complete.

If you have disabled non-instant funding transactions for your PayPal account, the transaction is cancelled and PayPal redirects the customer to your *Order Cancel* page.

After the bank transfer flow is completed, the transaction is pending until the customer pushes the funds to PayPal.

If the customer cancels during the PayPal payment via bank transfer flow, your *Order Cancel* page is displayed.

giropay Integration

If you offer the giropay payment option, you must take additional steps to integrate with the Express Checkout flow.

Initiate the Flow with SetExpressCheckout

To support giropay payments, you pass the following three URLs as part of the SetExpressCheckout request. These URLs tell PayPal where to redirect the customer based on the success or failure of each type of payment transaction. See the *PayPal Name-Value Pair Developer Guide and Reference* for more information.

SetExpressCheckout request fields for giropay

NVP Field	Description
GIROPAYSUCCESSURL	The URL on the merchant site to redirect to after a successful giropay payment.
GIROPAYCANCELURL	The URL on the merchant site to redirect to after a giropay or bank transfer payment is cancelled or fails.
BANKTXNPENDINGURL	The URL on the merchant site to transfer to after a bank transfer payment.

Redirect the Customer to PayPal

After selecting a funding source on PayPal, the customer is redirected back to your website, as in the regular Express Checkout flow. There is one additional field, REDIRECTREQUIRED, returned in the response from both GetExpressCheckoutDetails and DoExpressCheckoutPayment.

If the value of this field is true, you redirect the customer from your *Order Review* page to https://www.paypal.com/webscr?cmd=_complete-express-checkout.PayPal then redirects the customer from this redirect page to the necessary page for the selected funding source.

GetExpressCheckoutDetails and DoExpressCheckoutPayment response field

NVP Field	Description
REDIRECTREQUIRED	Flag to indicate whether you need to redirect the customer to back to PayPal

The GetExpressCheckoutDetails response contains the REDIRECTREQUIRED field, which lets you know if you need to redirect the user after your *Order Review* page. You can use this value to inform the customer on your *Order Review* page that they will be sent to the giropay website to complete the order.

Complete the Transaction

Corresponding to the three fields passed to SetExpressCheckout, you must add the following three additional pages to your website:

Additional pages required for giropay integration

NVP Field	Description
Order Completion	The GIROPAYSUCCESSURL page that PayPal redirects the customer to after a successful giropay payment.
Order Cancellation	The GIROPAYCANCELURL page that PayPal redirects the customer to after a giropay or bank transfer payment is cancelled or fails.
Order Pending	The BANKTXNPENDINGURL page that PayPal redirects the customer to after a bank transfer payment.

Receive Transaction Status Notification

After PayPal redirects the customer to giropay, you receive transaction status information in the following ways:

- IPN Notification
- Email (only for successful giropay or bank transfer transactions)
- PayPal Account Overview
- PayPal reports