

# PayPal Express Checkout

PayPal Express Checkout Integration Guide – Version 3.0



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## Contents

1	What is PayPal Express Checkout? .....	3
2	PayPal Account Configuration.....	4
3	Ogone Account Configuration.....	7
4	Merchant Integration.....	8
4.1	Identification and transaction in one step .....	8
4.2	Splitting identification and payment.....	9
4.2.1	Step 1: Identification request .....	9
4.2.2	Step 2: Client details reception .....	10
4.2.2.1	Data .....	10
4.2.2.2	Security and configuration.....	11
4.2.3	Step 3: Authorization/payment request.....	11
4.2.3.1	e-Commerce .....	11
4.2.3.2	DirectLink .....	12
5	Maintenance Operations.....	13

# 1 What is PayPal Express Checkout?

PayPal Express Checkout is a means of integrating PayPal that allows you to break down the financial transactions in different steps: authorization – data capture – refund etc.

In addition to this, PayPal Express Checkout also allows the identification step to be separated from the financial transaction (payment step). This feature allows a merchant to perform the identification step much earlier on in the order process and use the identification result to retrieve the client's address as registered in the client's PayPal account.

## 2 PayPal Account Configuration

The merchant must set up his PayPal (Business) account to allow our system's API user to access the merchant account.

To grant API access to our system's API user, the merchant needs to:

1. Log on to his PAYPAL account
2. Select "My Account" > "Profile"
3. Click on the "API access" link



### Profile Summary

To edit your Profile information, please click on a link below.

#### Account Information

[Email](#)  
[Street Address](#)  
[Password](#)  
[Notifications](#)  
[Language Preference](#)  
[Time Zone](#)  
[Manage Users](#)  
[API Access](#)  
[Service Providers](#)  
[Business Information](#)  
[Identification Preference](#)

#### Financial Information

[Credit/Debit Cards](#)  
[Bank Accounts](#)  
[Currency Balances](#)  
[Gifts and Discounts](#)  
[Recurring Payments](#)  
[Pay List](#)  
[Preapproved Payments](#)

#### Selling Preferences

[Tax/Value Added Tax](#)  
[Shipping Calculations](#)  
[Create New Button](#)  
[Payment Receiving Preferences](#)  
[Instant Payment Notification](#)  
[Preferences](#)  
[Reputation](#)  
[Customer Service Message](#)  
[Website Payment Preferences](#)  
[Encrypted Payment Settings](#)  
[Custom Payment Pages](#)  
[Invoice Templates](#)  
[Language Encoding](#)

4. Click on the "Add or edit API Permissions" link on the "API Access" page.



## API Access

An API (Application Programming Interface) allows PayPal software to communicate with your online store or shopping cart.

### Setting up API permissions and credentials

Choose one of the following options to integrate your PayPal payment solution with your online store or shopping cart.

Option 1 - Add or edit API permissions to view your current API settings, change your settings, or set up additional carts or online stores.

This option applies to:

- Hosted online stores and shopping carts integrated with PayPal
- Websites hosted and managed by third-party service providers

[Add or edit API permissions](#)

Option 2 - Request API credentials to create your own API username and password.

This option applies to:

- Custom websites and online stores
- Pre-integrated shopping carts running on your own server

[Request API credentials](#)

5. Enter the Ogone API user name: "support\_api1.v-psp.com" in the "API account username" field of the "Give Third-Party API Permission" page.



My Account | Send Money | Request Money | Merchant Services | Auction Tools

## Give Third-Party API Permission

Authorize a third-party to make API calls on your behalf.

See the [Third-Party API Instructions](#) for help completing this page. Learn more about API permissions on the [PayPal API Concepts and Terminology](#) page.

Enter API account username   
[What is this?](#)

Select Your API Access Level

- ☐ Direct Payment
- ☒ Express Checkout
- ☒ Reporting and Backoffice APIs
- ☒ Authorization and Settlement APIs

[Configure a custom API authorization.](#)

6. Select "Express\_Checkout", "Reporting and Backoffice API's", and "Authorization and Settlement API's" as the API access level.
7. Click on the "Submit" button.
8. Click the "Give Permission" button on the "Confirm API Permission" page. The merchant will see the "Edit and Remove API Permission" page displaying the API user to whom he has given access permission.



My Account | Send Money | Request Money | Merchant Services | Auction Tools

## Edit or Remove API Permission

[Back to Profile Summary](#)

API Username
<input checked="" type="radio"/> support_api1.v-psp.com

Now the merchant can configure PayPal Express Checkout in his account (see Chapter 3).

### 3 Ogone Account Configuration

The PayPal payment method can be configured via the "Payment Methods" link in the back-office. The activation of the payment method will be handled by our Customer Care Team.

Enabling or disabling the "Direct sale" button in Express Checkout allows users to choose between working in two steps (authorization and data capture) or in just one (direct sale: automatic data capture by our system when a valid authorization is available).

PayPal account e-mail address:

Express Checkout

Direct sale: ☐

When API permission has not been granted and a merchant wants to configure Express Checkout in his account, the following error will be displayed:

Error test merchant config for Paypal ExpressCheckout, probably API access to Paypal merchant account was not authorized by the Merchant  
!! THE PAYMENT METHOD SHOULD MAYBE BE DESACTIVATED ?!

PayPal account e-mail address:

Express Checkout

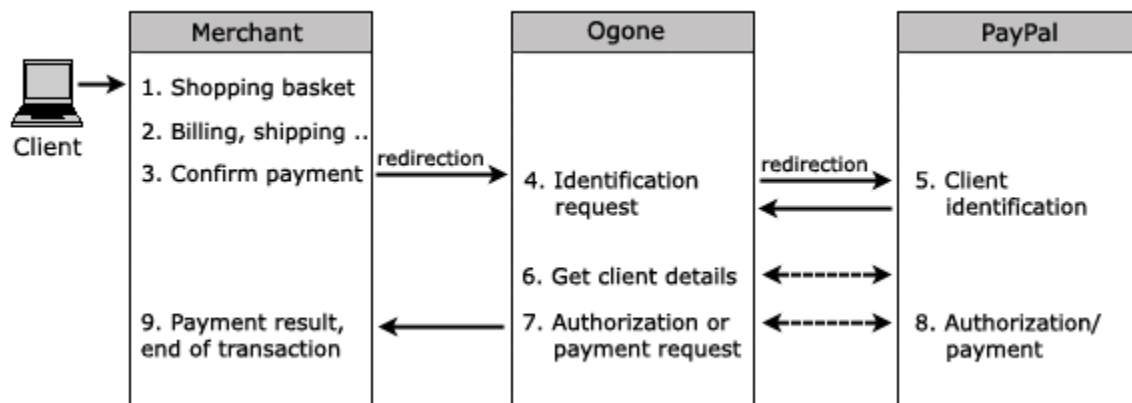
Direct sale: ☒

## 4 Merchant Integration

The merchant can integrate PayPal Express Checkout to split the identification and the transaction steps (see section 4.2) or the merchant can have the identification and the transaction in one step (see section 4.1).

### 4.1 Identification and transaction in one step

The followin workflow represents a transaction with PayPal Express Checkout for merchants who do not split the identification and the transaction (payment) steps:



The merchant must send at least the following hidden fields (general e-Commerce parameters) in the redirection to `orderstandard.asp`:

Field	Explanation
PSPID	The merchant's affiliation name in our system.
orderId	The merchant's order number (merchant reference).
amount	Amount to be paid MULTIPLIED BY 100.
currency	Currency of the order in ISO alpha code.
language	Language of the customer.

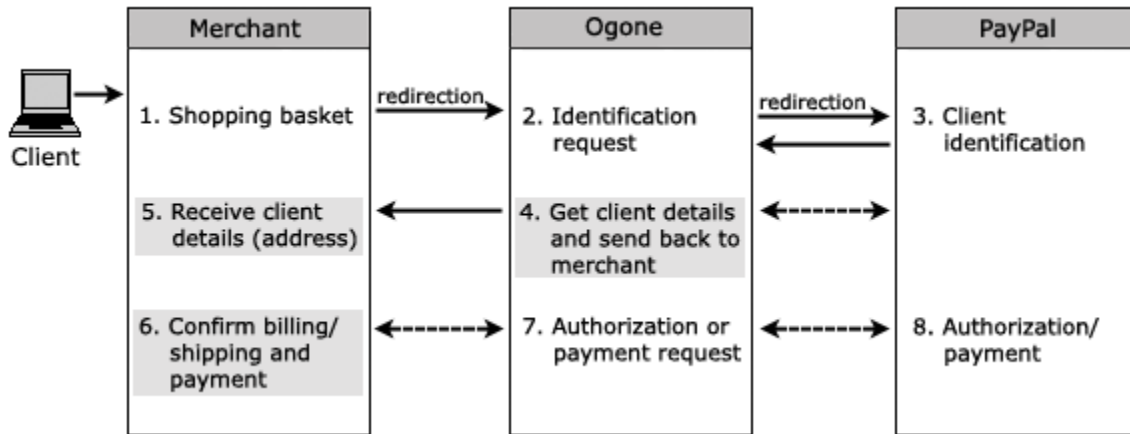
On submission of the hidden fields, the customer is displayed our secure payment page with an overview of the possible payment methods the merchant has activated in his account. He can then select PayPal.

If the customer is to select the payment method PayPal on the merchant's website instead of on our payment page, the merchant can send us the additional hidden field PM (value = "PAYPAL"). On submission of the hidden fields, we will forward the customer directly to the PayPal website. The customer will be sent to the login screen at PayPal, where he will identify himself and verify the payment.



## 4.2 Splitting identification and payment

The following workflow represents a transaction with PayPal Express Checkout where the identification and payment steps are split:



### 4.2.1 Step 1: Identification request

This first step occurs on the merchant website between the shopping basket confirmation and the collection of the shipping info. The merchant needs to display a PayPal pay button which redirects the customer to the e-Commerce interface.

The merchant must send the following additional hidden fields behind the pay button in the redirection to `orderstandard.asp`:

Field	Explanation
PSPID	The merchant's affiliation name in our system.
orderID	The merchant's order number (merchant reference).
amount	Amount to be paid MULTIPLIED BY 100.
currency	Currency of the order in ISO alpha code.
language	Language of the customer.
SHASIGN	SHA-1-IN signature for security.
accepturl	URL to which the client details will be posted if the identification is successful.
declineurl	URL to which the client details will be posted if the identification fails.
PM	Fixed value "PAYPAL".
TXTOKEN	Fixed value "INIT".

On submission of the hidden fields, we will forward the customer to the PayPal website. The customer will be sent to the login screen at PayPal, where he will identify himself, review his shipping details and continue.

This step can be simulated on the following test page (after completion of the account configuration for PayPal, otherwise you will receive the error "You do not have permission to make this API call"): [https://secure.ogone.com/ncol/test/teststd\\_paypal\\_express.htm](https://secure.ogone.com/ncol/test/teststd_paypal_express.htm). You can enter "displayparams.asp" as accepturl and declineurl in order to have the client details and parameter feedback displayed in the browser window.

## 4.2.2 Step 2: Client details reception

When the identification is successful, the client details, including client addresses stored in the client PayPal account, will be posted to the accepturl specified by the merchant in the hidden fields of the identification request (previous step).

### 4.2.2.1 Data

The following table lists the available customer data:

**IMPORTANT:** Not all fields are always available. The details come directly from the PayPal account. We cannot guarantee the accuracy of these data.

Name	Length	Format	Possible Values
PayerEmail	127	email	
PayerID	17	alphanumeric	
PayerStatus	10	alpha	Verified / Unverified
PayerSalutation	20	alpha	
PayerFirstName	25	alpha	
PayerMiddleName	25	alpha	
PayerlastName	25	alpha	
PayerSuffix	12	alpha	
PayerCountry	2	alpha	
PayerBusiness	127	alpha	
PayerAdrStatus	11	alpha	None / Confirmed / Unconfirmed
PayerAdrName	32	alpha	
PayerAdrStreet1	100	alphanumeric	
PayerAdrStreet2	100	alphanumeric	
PayerAdrCityName	40	alphanumeric	
PayerAdrStateOrProvince	40	alphanumeric	
PayerAdrPostalCode	20	alphanumeric	
PayerAdrCountry	2	alphanumeric	

Custom	256	alphanumeric	
InvoiceID	127	alphanumeric	
ContactPhone	12	Mask	+XXXXXXXXXXXX / XXX-XXX-XXXX (US)

In addition to the data received from PayPal, the merchant will receive the following information from our system:

- TXTOKEN: 25 alphanumeric (the merchant needs to store this information for the payment step)
- PAYID: 15 numeric (the merchant needs to store this information for the payment step)
- PSPID
- orderID
- Currency
- Amount

and the SHASIGN parameter (SHA-1-OUT signature).

#### 4.2.2.2 Security and configuration

To receive the transaction parameters on the specified accepturl, the merchant needs to activate the option "I would like to receive transaction feedback parameters on the redirection URLs" in the "Transaction feedback" tab, "HTTP redirection in the browser" section of the Technical Information page.

The redirection process is visible because it goes via the customer's browser. Consequently, the merchant must use an SHA-1-OUT signature to verify the contents of the request. If the merchant does not configure a SHA-1-OUT signature we will not send any feedback parameters on his accepturl (please refer to the **Advanced e-Commerce** integration guide for more information on the SHA-1-OUT signature.) For the PayPal Express Checkout, we compose the string by concatenating the values of all fields mentioned above in the "Data" section (coming from PayPal and our system) in exactly the same order as stated above and an *additional string* defined by the merchant (password/pass phrase of minimum 16 characters) in the "Transaction feedback" tab, "Security for request parameters" section, SHA-1-OUT Signature field of the Technical Information page.

All parameters can be transmitted to the accepturl using the POST or GET method, depending on the merchant's configuration in the "Transaction feedback" tab, "Direct HTTP server-to-server request" section (Request method) of the Technical information page in his account.

### 4.2.3 Step 3: Authorization/payment request

This third step can be done via e-Commerce or via DirectLink.

#### 4.2.3.1 e-Commerce

The merchant must send at least the following additional hidden fields in the redirection to orderstandard.asp:

Field	Explanation
PSPID	The merchant's affiliation name in our system.
orderID	The merchant's order number (merchant reference).
amount	Amount to be paid MULTIPLIED BY 100.
currency	Currency of the order in ISO alpha code.
language	Language of the customer.
SHASIGN	SHA-1-IN signature for security.
PM	Fixed value "PAYPAL".
TXTOKEN	As received from our system (see step 2).
PAYID	As received from our system (see step 2).

If the merchant sends us the authorization/payment request via e-commerce, on submission of the hidden fields the customer will be sent straight to the transaction confirmation screen (unless an error occurs). If the merchant wants to redirect the customer at the end of the transaction process, he can send an `accepturl` or `declineurl` in the hidden fields that differs from those he sent in step 1.

This step can be simulated on the following test page:

<https://secure.ogone.com/ncol/test/teststd.asp>

#### 4.2.3.2 DirectLink

The merchant must send at least the following parameters in the request on **orderdirect.asp**: (No credit card related information needs to be sent)

Parameter	Explanation
PSPID	The merchant's affiliation name in our system.
USERID	Name of the merchant's application (API) user.
PSWD	Password of the API user (USERID).
orderID	The merchant's order number (merchant reference).
amount	Amount to be paid MULTIPLIED BY 100.
currency	Currency of the order in ISO alpha code.
PM	Fixed value "PAYPAL".
TXTOKEN	As received from our system (see step 2).
PAYID	As received from our system (see step 2).

If the merchant has entered a value in the SHA-1-IN Signature field in the "Checks for DirectLink" section in the "Data and origin verification" tab of the Technical Information page in his account, he also needs to send the SHASIGN parameter along in his request.

If the merchant sends us the authorization/payment request via DirectLink, our system returns the response to the merchant in XML format.

## 5 Maintenance Operations

Maintenance operations (data capture, refund, ...) can be performed via the back-office or via DirectLink, i.e. in a way similar to that for regular credit card transactions.

**IMPORTANT:** A PayPal authorization is only valid for 3 days.