App for osCommerce Online Merchant v2.3

Pages

Introduction

This document can be found online at:

The PayPal App is bundled with osCommerce Online Merchant v2.3.5 onwards and can be downloaded separately to install on existing or earlier installations.

PayPal App

The PayPal App for osCommerce Online Merchant includes all PayPal modules bundled in one package, and includes:

- PayPal Payments Standard
- PayPal Express Checkout (incl. Payflow)
- PayPal Payments Pro (Direct Payment, incl. Payflow)
- PayPal Payments Pro (Hosted Solution)
- Log In with PayPal

> All osCommerce Online Merchant versions up to and including v2.3.4 require changes to be performed to the shop installation for advanced App features. Please review the Legacy Changes page for further information to decide if they should be applied. *(These changes are included in v2.3.5)*

Features

The PayPal App supports the following features:

API Credentials Retrieval
Both live and sandbox API Credentials can be securely retrieved from new and existing PayPal accounts directly from the App.

Configuration Migration
The module parameter configuration values of earlier module installations are automatically migrated to the App configuration parameters.

One-Click Online Updates
New App versions are automatically checked every 24 hours and updates can be performed automatically. *(requires PHP 5.2+ and Zip)*

API Logging

All request and response parameters sent in and received from API transaction calls are logged.

Admin Order Transactions

- Capture full or partial authorizations
- Refund full or partial payments
- Cancel authorizations

Minimum Requirements

PayPal App

The PayPal App can be used from osCommerce Online Merchant v2.2RC2a (2008) onwards, and is optimized for and bundled with v2.3.5.

One-Click Online Updates

Automatic One-Click Online Updates requires PHP 5.2+ with Zip support.

Admin Order Transactions

Admin Order Transactions requires a new Administration Tool Orders page that is included in the App download package. This updates the layout of the admin orders page to a tabbed layout introduced in osCommerce Online Merchant v2.3.5. Compatible versions are available in the App download package from v2.2RC2a to v2.3.4.

Log In with PayPal

Log In with PayPal requires the Content Modules feature introduced in osCommerce Online Merchant v2.3.4.

jQuery and jQuery UI

The App automatically and securely loads the jQuery (v1.11.1) and jQuery UI (v1.10.4) libraries from Google CDN if they are not already available in the Administration Tool template. A minimum version of jQuery v1.5.0 is required for the App to function properly.

Starting the App PayPal: Start

The PayPal App initializes and configures itself the first time it is loaded in the Administration Tool. The PayPal App adds a dedicated navigation menu box to the Administration Tool to quickly get started with the App.

The first time the App is loaded on a new shop installation or on an existing installation that has not previously configured any PayPal modules, a "start" page is displayed to start configuring the App with the store owners PayPal account API Credentials. This is presented with the following page:
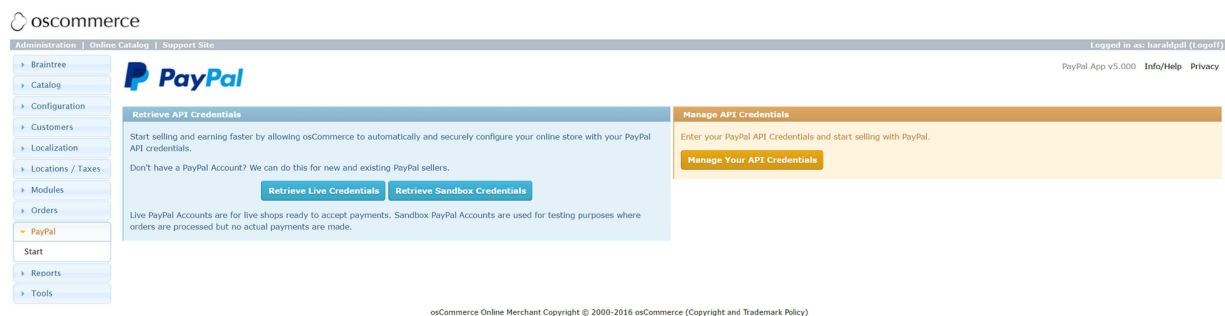
The PayPal App Start page

The Retrieve API Credentials buttons allows the App to retrieve the API Credentials of existing and new PayPal accounts to automatically configure itself with.

New PayPal sellers are able to test the PayPal App with a PayPal Sandbox account at no charge, and can create and retrieve their Live account credentials to start accepting PayPal payments when ready.

As soon as the API Credentials have been configured, the App automatically adds more links to the navigation menu box to start using the App.

If the online store has already been configured previously with the official PayPal modules bundled in the osCommerce Online Merchant releases, the App will automatically migrate the previous module configuration parameters and configure itself with the configuration values.

Retrieve API Credentials PayPal: Retrieve Credentials

Retrieving the store owners PayPal account API Credentials allows the App to configure itself with the following information:

- API Username
- API Password
- API Signature
- Merchant Account ID
- PayPal E-Mail Address

The API Credentials are used to securely communicate with PayPal and perform transactions with.

Retrieving the API Credentials can be performed for existing PayPal accounts and for new accounts. If the store owner does not yet have a PayPal account, a Sandbox account for testing can be created at no charge to test the App and PayPal payment methods with.

The process of retrieving the API Credentials is performed securely and seamlessly where the store owner is directed to PayPal to authorize the App to be able to retrieve their API Credentials and is returned to the App for the retrieval and configuration to take place. The exact process of this flow is described in the Privacy Policy.

Using either Retrieve Live Credentials or Retrieve Sandbox Credentials buttons directs the store owner to PayPal to begin the procedure.

Starting the API Credentials Retrieval process

PayPal detects if a matching account exists and asks the store owner to log into their existing PayPal account, or automatically continues with a new account creation process.

Signing into PayPal

After granting authorization for the App to retrieve the API Credentials, the store owner is returned back to the App.

Authorizing the App to retrieve the API Credentials

The store owner is returned back to the App where the App has automatically retrieved and configured itself with the API Credentials.

The App has configured itself with the API Credentials

The API Credentials can be updated at any time by either manually entering the values in the configuration fields or by automatically retrieving the API Credentials for another account using the Retrieve API Credentials buttons.

Now that the API Credentials have been configured, the App activates all links in the navigation menu box to start using the App.

Manage API Credentials PayPal: Credentials

The PayPal account API Credentials can be manually entered on this page or can be automatically retrieved using the Retrieve API Credentials buttons.

The API Credentials consists of:

- API Username
- API Password
- API Signature
- Merchant Account ID
- PayPal E-Mail Address

The API Credentials are used to securely communicate with PayPal and perform transactions with.

Managing the PayPal account API Credentials

If PayPal payments are to be processed through Payflow, the Payflow credentials can be entered using the Payflow button.

▸ Braintree
▸ Catalog
▸ Configuration
▸ Customers
▸ Localization
▸ Locations / Taxes
▸ Modules
▸ Orders
▾ PayPal
   Balance
   Configure
   Credentials
   Log
▸ Reports
▸ Tools

PayPal

PayPal App v5.000   **Info/Help**   Privacy

PayPal   PayFlow

Live Credentials

Partner

Merchant Login

User

Password

Sandbox Credentials

Partner

Merchant Login

User

Password

Save

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Managing the Payflow credentials

Global Configuration PayPal: Configure

Global configuration parameters affect all App modules and can be configured on the Configure page using the General button.

Configuring the global App configuration parameters

Gateway

This should be left as PayPal unless you have set up your PayPal account to process payments through Payflow. Setting this to Payflow affects the following modules:

- PayPal Express Checkout
- PayPal Payments Pro (Direct Payments)

Transactions Order Status

This is the Order Status level where the result of API transactions are stored. This Order Status level should be private and should not be visible to customers when they view their order information.

Verify SSL

Keeping this enabled ensures the connections to PayPal's servers are secure and are not being tampered with. This uses the following public keys in order if they are available:

- ext/modules/payment/paypal/paypal.com.crt

- includes/cacert.pem (public key bundle)
- the php / web server configured public key bundle

If connections to PayPal's servers cannot be made, disabling this setting may help however it is recommended to find a solution that allows this settings to remain enabled.

SSL Version

Use the default cURL configured SSL version connection setting when making API calls to PayPal or force TLS v1.2 connections.

A connection test can be performed using the Test Connection button to open a dialog window showing the results of the default configured SSL version and forced TLS v1.2 connections.

Proxy

Some hosting providers require a proxy to be used for cURL connections to be made.

Log Transactions

The request and response values of each API transaction call can be logged to identify and help find a solution to any problem. It is recommended to log all API calls when beginning to use the App and to change it to log only errors when all App features have been tested.

Module Configuration

App modules that have already been enabled can be configured using their respective configuration buttons. Additional App modules can be enabled using the + button and selecting from a list of available modules to install.
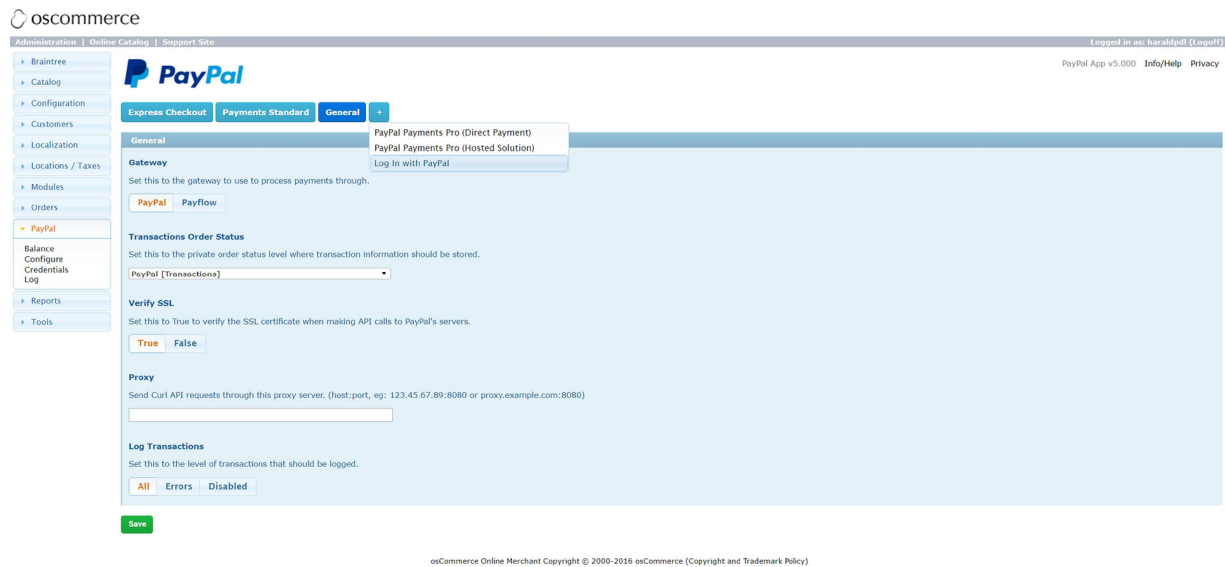
Installing additional App modules

After a new module has been installed, it performs requirement checks to make sure the module can be enabled on the store. If any requirements are not met, the module remains in a disabled state until the requirement has been fixed.

Administration | Online Catalog | Support Site   Logged in as: haraldpdf (Logoff)

PayPal   PayPal App v5.000   Info/Help   Privacy

Braintree
Catalog
Configuration
Customers
Localization
Locations / Taxes
Modules
Orders
PayPal
  Balance
  Configure
  Credentials
  Log
Reports
Tools

Module has been successfully installed.

Express Checkout   Payments Standard   Log In   General   +

This module will not load until the Client ID and Secret parameters have been configured. Please edit and configure the settings of the PayPal App.

Log In with PayPal

Status
Set this to Live to use the Live REST API credentials or to Test to use the Test credentials.

Live   Test   Disabled

Live Client ID
The Client ID of the PayPal REST App Live Credentials.

Live Secret
The Secret of the PayPal REST App Live Credentials.

Test Client ID
The Client ID of the PayPal REST App Test Credentials.

Test Secret
The Secret of the PayPal REST App Test Credentials.

Theme
The theme to use for the style of the login button.

Blue   Neutral

Information Requested From Customers
The attributes the customer must share with you.

Personal Information
- Full Name
- Date of Birth
- Age Range
- Gender

Address Information
- E-Mail Address
- Street Address
- City
- State
- Country
- Zip Code
- Telephone Number

Account Information
- Account Status (verified)
- Account Type
- Account Creation Date
- Time Zone
- Locale
- Language

Checkout Express
- Seamless Checkout

Save   Uninstall ...

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Notification of a requirement for a new module

In the image above, a notification is displayed due to missing API Credentials. The module will remain in a disabled state until the Live credentials have been entered or the module has been configured to use the Sandbox credentials.

Express Checkout PayPal: Configure → Express Checkout

PayPal Express Checkout is automatically pre-configured for new osCommerce Online Merchant installations where payments are sent to the configured store owner e-mail address. This allows store owners to start accepting payments immediately and to complete their PayPal merchant account when their first payments have arrived.

This module can use both PayPal and Payflow to process transactions with and can be configured on the `Configure` → `General` page.

Features

Seamless Checkout

Seamless Checkout requires the Log In with PayPal module to be enabled and allows customers who have logged in through PayPal to proceed straight to the Express Checkout flow without needing to log in again.

Instant Update

As soon as the customer has logged in at PayPal or has provided their shipping address during the Express Checkout flow, PayPal contacts your online store to retrieve a list of applicable shipping rates and taxes for the shipping destination. The customer is able to choose their preferred shipping rate which is passed back to the store to use for the order.

As of osCommerce Online Merchant v2.3.4, orders can be blocked when no shipping rate for the destination is available. If this is enabled and Instant Update detects that no shipping rates are available, it requests the customer to select or enter a new shipping address during the Express Checkout flow and prevents them to continue with the order until a valid shipping destination has been selected.

Requirements

Instant Update requires the following for the shipping rates to be retrieved:

- Your store installation must be configured for and have SSL enabled.

PayPal Account Optional

PayPal Account Optional allows customers without a local or PayPal account to proceed through the Express Checkout flow as a guest. Customers do not need to

create a PayPal account during the Express Checkout flow and their shipping and billing information is passed back to the store to use for the order.

Configuration Settings

Parameter	Description	Default
Status	Set this to *Live* to use this module with the Live API Credentials, or to *Sandbox* for the Sandbox API Credentials. *Disabled* disables the module as a payment method.	*Live*
Checkout Flow	Use the new pop-up In-Context checkout flow and have PayPal automatically choose the best checkout flow to use, or use standard full-page Classic checkout flow. In-Context does not yet support all of the features of the Classic checkout flow such as *Instant Update*.	*In-Context*
Checkout Button Color	Choose the color of the Checkout with PayPal button.	*Gold*
Checkout Button Size	Choose the size of the Checkout with PayPal button.	*Small*
Checkout Button Shape	Choose the shape of the Checkout with PayPal button.	*Pill*
PayPal Account Optional	Allow guests to continue through the Express Checkout flow without logging into their PayPal account.	*False*
Instant Update	Allow PayPal to retrieve shipping rates and taxes for the order based on the customers shipping destination during the Exprress Checkout flow.	*True*
PayPal Express Checkout Button	Use a *Static* or *Dynamic* Express Checkout image button on the shopping cart page.	*Static*
Page Style	*This parameter has been deprecated.* The page style to use for the payment flow. This is defined in your PayPal account settings.	

Parameter	Description	Default
Transaction Method	The transaction method to use for payments. The *Authorization* method only authorizes the transaction which can be captured up to 29 days later. The *Sale* method instantly transfers the funds from the customer to your PayPal account.	*Sale*
Order Status	Set the status of orders made with this payment module to this order status level.	*Default Order Status*
Payment Zone	If set, this payment method will only be available to orders made within the defined zone.	

Notes

Customer Accounts

PayPal Express Checkout allows guest purchases to be made without the customer needing to create or log into their local store account. A local customer account is however created when they return back to the store from the Express Checkout flow to keep track of the order.

If the Set Password account content module is not installed, the automatically created account is assigned a randomly generated password which is e-mailed to the customers e-mail address PayPal provides.

If the Set Password account content module is installed, the password is left empty and no e-mail is sent to the customer. The customer then has the opportunity to set their own password in the My Account page during their session or they will only able to log in again through Log In with PayPal or PayPal Express Checkout when their next order is made.

Order Processing

The Express Checkout module has been developed to have the customer return back to the store to finalize their order on the checkout confirmation page. This allows the correct order totals and taxes to be shown for confirmation and for additional checks to be added before the order is processed (eg, agree to terms checkbox).

Line Items

Each product that is ordered is passed on to PayPal as line items to show to the customer during the Express Checkout flow. This includes extra third-party Order Total modules that manipulate the order total values (eg, discounts). In rare occassions, when the line items, shipping, and tax calculations do not match the order total value, only the order total value is passed onto PayPal without the line items.

Payments Pro (Direct Payment) PayPal: Configure → Direct

Payment

PayPal Payments Pro (Direct Payment) allows credit and debit cards to be accepted directly on your online store's checkout flow without the customer having to leave the store.

This module can use both PayPal and Payflow to process transactions with and can be configured on the `Configure` → `General` page.

Requirements

PayPal Express Checkout

PayPal Payments Pro (Direct Payment) requires the additional PayPal Express Checkout payment module to be installed and enabled on your online store. This module will not function until PayPal Express Checkout has been enabled.

Configuration Settings

Parameter	Description	Default
Status	Set this to *Live* to use this module with the Live API Credentials, or to *Sandbox* for the Sandbox API Credentials. *Disabled* disables the module as a payment method.	*Live*
Cards	Select the type of cards to accept payments from.	*Visa MasterCard Discover Card American Express Maestro*
Transaction Method	The transaction method to use for payments. The *Authorization* method only authorizes the	*Sale*

Parameter	Description	Default
	transaction which can be captured up to 29 days later. The *Sale* method instantly transfers the funds from the customer to your PayPal account.	
Order Status	Set the status of orders made with this payment module to this order status level.	*Default Order Status*
Payment Zone	If set, this payment method will only be available to orders made within the defined zone.	

Notes

Line Items

Each product that is ordered is passed on to PayPal as line items to link to the transaction. This includes extra third-party Order Total modules that manipulate the order total values (eg, discounts). In rare occassions, when the line items, shipping, and tax calculations do not match the order total value, only the order total value is passed onto PayPal without the line items.

PayPal

Payments Pro (Hosted Solution) PayPal: Configure →

Hosted Solution

PayPal Payments Pro (Hosted Solution) allows credit and debit cards to be accepted directly on your online store's checkout flow without the customer having to leave the store. The payment fields are loaded directly and securely from PayPal's servers in an iframe.

Configuration Settings

Parameter	Description	Default
Status	Set this to *Live* to use this module with the Live API Credentials, or to *Sandbox* for the Sandbox API Credentials. *Disabled* disables the module as a payment method.	*Live*
Transaction Method	The transaction method to use for payments. The *Authorization* method only authorizes the transaction which can be captured up to 29 days later. The *Sale* method instantly transfers the funds from the customer to your PayPal account.	*Sale*
Preparing Order Status	The customers order is saved in the database on the checkout confirmation page before the customer is forwarded to PayPal if they choose PayPal as their payment method. The order is saved in the database with this defined order status. The order status is updated again when the customer finalizes the payment at PayPal and returns back to the store. The order status is also updated when the Instant Payment Notification from PayPal is received.	*Preparing [PayPal Pro HS]*

Parameter	Description	Default
	If the customer does not finalize the payment at PayPal, the order remains in the database with this order status and can be removed after a period of time.	
Order Status	The orders status will be updated to this value when the customer returns back to the store after payment has been made at PayPal or when the Instant Payment Notification is received and the order has been verified.	*Default Order Status*
Payment Zone	If set, this payment method will only be available to orders made within the defined zone.	

Payments Standard PayPal: Configure → Payments Standard

> It is recommended to enter the API Credentials or enable Payment Data Transfer (PDT) in your PayPal account settings to ensure transactions can be verified after payments have been made.

Features

Encrypted Website Payments

Encrypted Website Payments allows the initial transaction information to be encrypted using public and private keys before it is sent to PayPal. This protects the order information from being tampered with and securely initiates the transaction with PayPal.

Requirements

Encrypted Website Payments requires the following:

- OpenSSL; The PHP installation on your web server needs to support OpenSSL or have access to the "openssl" program file. The location of the "openssl" program file can be defined in a configuration parameter.

Instant Payment Notification

All orders processed through PayPal Payments Standard are verified by a separate call PayPal automatically performs when an order has been processed. PayPal sends an Instant Payment Notification (IPN) to your store with the order information which is then verified and logged with the order.

Payment Data Transfer (PDT)

If Payment Data Transfer has been enabled in your PayPal account settings, transactions are verified with an Identity Token when the customer returns back to the online store after a payment has been made.

As soon as Payment Data Transfer has been enabled at PayPal, it is important to copy the generated Identity Token to the configuration parameter setting.

Configuration Settings

Parameter	Description	Default
Status	Set this to *Live* to use this module with the Live API Credentials, or to *Sandbox* for the Sandbox API Credentials. *Disabled* disables the module as a payment method.	*Live*
Page Style	*This parameter has been deprecated.* The page style to use for the payment flow. This is defined in your PayPal account settings.	
Transaction Method	The transaction method to use for payments. The *Authorization* method only authorizes the transaction which can be captured up to 29 days later. The *Sale* method instantly transfers the funds from the customer to your PayPal account.	*Sale*
Preparing Order Status	The customers order is saved in the database on the checkout confirmation page before the customer is forwarded to PayPal to finalize their payment. The order is saved in the database with this defined order status. The order status is updated again when the customer finalizes the payment at PayPal and returns back to the store. The order status is also updated when the Instant Payment Notification from PayPal is received. If the customer does not finalize the payment at PayPal, the order remains in the database with this order status and can be removed after a period of time.	*Preparing [PayPal Standard]*
Order Status	The orders status will be updated to this value when the customer returns back to the store after payment has been made at PayPal or when the Instant Payment Notification is received and the order has been verified.	*Default Order Status*

Parameter	Description	Default
Payment Zone	If set, this payment method will only be available to orders made within the defined zone.	
PDT Identity Token	The Payment Data Transfer (PDT) Identity Token is displayed in your PayPal account settings as soon as PDT has been enabled for your PayPal account. This is used to verify transactions with when payments have been made and the customer returns to your online store.	
Encrypted Website Payments	Setting this parameter to *True* encrypts the parameters sent to PayPal during the payment transaction.	*False*
Your Private Key	The location and filename of your private key to use for signing the payment transaction.	
Your Public Certificate	The location and filename of your public certificate to use for signing the payment transaction.	
Your PayPal Public Certificate ID	The public certificate ID that PayPal should use to decrypt the payment transaction. This is defined at your PayPal Encrypted Payment Settings Profile page.	
PayPal Public Certificate	The location and filename of the PayPal public certificate to use for encrypting the payment transaction.	
Working Directory	The working directory to create temporary files. All files created are automatically deleted when they are no longer needed.	
OpenSSL Location	The location and filename of the OpenSSL "openssl" program file used when PHP has not been configured with OpenSSL natively.	*/usr/bin/openssl*

Encrypted Website Payments

The following steps are required before Encrypted Website Payments is enabled:

1. Generate your private key.
2. Generate your public certificate.
3. Upload your public certificate to your PayPal account.
4. Download the PayPal public certificate from the PayPal website.
5. Update module configuration parameters.

and optionally:

6. Block non-encrypted website payments.

Private keys and public certificates can be generated by using the "openssl" program file.

1. Generate your private key

Enter the following OpenSSL command to generate your private key. The command generates a 1024-bit RSA private key that is stored in the file my-prvkey.pem:

```
openssl genrsa -out my-prvkey.pem 1024
```

2. Generate your public certificate

Your public certificate must be in PEM format. To generate your certificate, enter the following OpenSSL command, which generates a public certificate in the file my-pubcert.pem:

```
openssl req -new -key my-prvkey.pem -x509 -days 365 -out my-pubcert.pem
```

The following questions will be prompted:

Question	Example
Country Name (2 letter code)	US
State or Province Name (full name)	California
Locality Name (eg, city)	Beverly Hills
Organization Name (eg, company)	Your Store Name
Organizational Unit Name (eg, section)	

Question	Example
Common Name (e.g. server FQDN or YOUR name)	Your Store URL Address
Email Address	Your E-Mail Address

3. Upload your public certificate to your PayPal account

To upload your public certificate to your PayPal account:

1. Log in to your PayPal Business or Premier account.
2. Click the Profile subtab.
3. In the Hosted Payment Settings column, click the Website Payment Certificates link.
4. Scroll down the page to the Your Public Certificates section, and click the Add button.
5. Click the Browse button, and select the public certificate that you want to upload to PayPal (*my-pubcert.pem*).
6. Click the Add button.

After your public certificate uploads successfully, it appears in the Your Public Certificates section of the Website Payment Certificates page.

7. Note the certificate ID that PayPal assigned to your public certificate.

4. Download the PayPal public certificate from the PayPal website

To download the PayPal public certificate:

1. Log in to your PayPal Business or Premier account.
2. Click the Profile subtab.
3. In the Hosted Payment Settings column, click the Website Payment Certificates link.
4. Scroll down the page to the PayPal Public Certificate section.

PayPal Public Certificate

PayPal requires that you use the PayPal Public Certificate with your code to encrypt buttons so that only PayPal can decipher the encrypted contents. Click the **Download** button below to download the PayPal Public Certificate.

Download

5. Click the Download button, and save the file in a secure location.

5. Update module configuration parameters.

Copy the following files to a secure location your web server:

- my-prvkey.pem; *Your private key generated in step 1.*
- my-pubcert.pem; *Your public certificate generated in step 2.*
- paypal_cert_pem.txt; *The PayPal public certificate downloaded in step 4.*

Create a working directory on the web server that the web server has write access to.

Review and update the module Encrypted Website Payments parameters:

Parameter	Value
Encrypted Website Payments	Set to *True* to enable Encrypted Website Payments.
Your Private Key	The location and filename of your private key; my-prvkey.pem generated in Step 1.
Your Public Certificate	The location and filename of your public certificate; my-pubcert.pem generated in Step 2.
Your PayPal Public Certificate ID	Your PayPal stored Certificate ID; noted in Step 3.
PayPal Public Certificate	The location and filename of the PayPal public certificate; paypal_cert_pem.txt downloaded in Step 4.
Working Directory	The working directory to create temporary files. All files created are automatically deleted when they are no longer needed.
OpenSSL Location	The location and filename of the OpenSSL "openssl" program file used when PHP has not been configured with OpenSSL natively.

6. Block non-encrypted website payments.

Optionally, orders processed through non-encrypted website payments can be blocked for extra security. This is recommended only if Encrypted Website Payments has been enabled.

To block payments from unprotected and non-encrypted PayPal Payments Standard orders:

1. Log in to your PayPal Premier account or Business account.
2. Click the Profile subtab.
3. In the Hosted Payment Settings column, click the Website Payments Preferences link.
4. Scroll down to the Encrypted Website Payments section.

Encrypted Website Payments

Using encryption enhances the security of website payments by decreasing the possibility that a 3rd party could manipulate the data in your button code. If you plan on only using encrypted buttons you can block payments from non-encrypted ones.

Learn more about Encrypted Website Payments

Note: If you enable Encrypted Website Payments, all of your Buy Now, Donations, and Subscriptions buttons **must** be encrypted via one of the following methods:

- Using the Button Factory with the security settings enabled.
- Using your own code, you encrypt all website payments before sending them to PayPal.

By enabling this feature, any Buy Now, Donation, or Subscription button that is not encrypted will be rejected by PayPal.

Block Non-encrypted Website ◉ On
Payment: ○ Off

5. Next to the Block Non-encrypted Website Payment label, select the On radio button.
6. Scroll to the bottom of the page, and click the Save button.

Notes

Order Processing

When the customer goes through the checkout procedure and lands on the checkout confirmation page, their order is saved in the database with a private order status (by default, *Preparing [PayPal Standard]*). The order status is updated to an acknowledged order status (by default, the default order status level) when the customer returns back to the store from PayPal after payment has been made, or when the IPN notification is received if the customer didn't return back to the store.

If the customer did not finalize the payment at PayPal and does not return back to the store, the order remains in the database with the *Preparing [PayPal Standard]* order status and can be safely deleted after a period of time.

Line Items

Each product that is ordered is passed on to PayPal as line items to show to the customer during the payment flow. This includes extra third-party Order Total modules that manipulate the order total values (eg, discounts). In rare occassions, when the line items, shipping, and tax calculations do not match the order total value, only the order total value is passed onto PayPal without the line items.

Log In with PayPal PayPal: Configure → Log In

Log In with PayPal allows guests to authenticate themselves through PayPal and to securely share their personal and shipping address information without the need to create a customer account on your store. The shared information is used to calculate taxes and to retrieve a list of available shipping rates for their order based on their shipping address.

When guests authenticate themselves through PayPal, their default payment method is automatically set to PayPal Express Checkout which they can use without needing to sign into again.
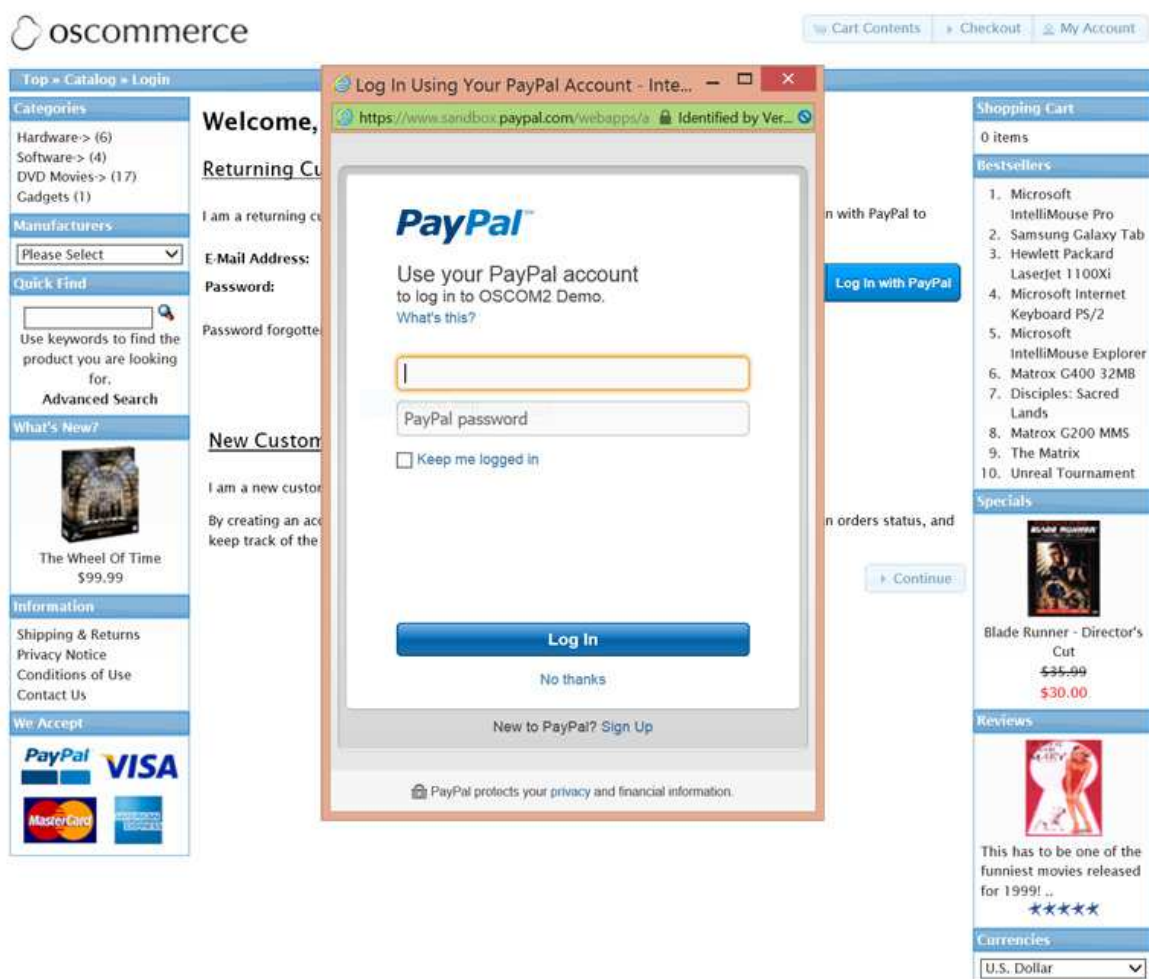
Log In with PayPal Mini-Browser Window

Features

Seamless Checkout

Seamless Checkout requires the PayPal Express Checkout module to be enabled and allows customers who have logged in through PayPal to proceed straight to the Express Checkout flow without needing to log in again.

Requirements

Log In with PayPal requires the following:

- PayPal REST App; a PayPal REST App needs to be created at the PayPal Developer site. The Client ID and Secret API credentials assigned to the application need to be entered in the module configuration page.
- The Return URL displayed in the module configuration page needs to be entered as the Return URL in the PayPal REST App created for Log In with PayPal.
- Content Modules; as Log In with PayPal is a content module, it requires the Content Modules implementation introduced in osCommerce Online Merchant v2.3.4. Please refer to its release notes to add the implementation into your existing store.
- Set Password Content Module; it is important to enable the Set Password content module to automatically replace the My Account -> Change Password link to a Set Password link.

Configuration Settings

Parameter	Description	Default
Status	Set this to *Live* to use this module with the Live REST Credentials, or to *Test* for the Test Credentials. *Disabled* disables the module.	*Live*
Live Client ID	The Client ID of the Live PayPal REST Application to use.	
Live Secret	The Secret of the Live PayPal REST Application to use.	
Test Client ID	The Client ID of the Test PayPal REST Application to use.	
Test Secret	The Secret of the Test PayPal REST Application to use.	
Theme		*Blue*

Parameter	Description	Default
	A Blue and Neutral theme is available for the design of the Log In with PayPal button.	
Information Requested From Customers	The attributes the customer shares. All attributes are selected by default. The minimum attributes required are defined by a radio button which cannot be deselected.	*Personal Information*
		Full Name
		Date of Birth
		Age Range
		Gender
		Address Information
	The selected attributes must match the attributes selected in the PayPal Application settings.	*Email Address*
		Street Address
		City
		State
		Country
		Zip Code
		Telephone Number
		Account Information
		Account Status (verified)
		Account Type
		Account Creation Date
		Time Zone
		Locale
		Language
		Checkout Express
		Seamless Checkout

Parameter	Description	Default

Notes

Customer Accounts

Log In with PayPal allows guest purchases to be made without the customer needing to create or log into their local store account. As a customer account is needed to track orders, when the customer returns back to the store after logging in through PayPal, either:

- they are automatically logged into their store account matching the same e-mail address, or
- a store account based on their PayPal e-mail address is automatically created with an empty password

Customers cannot log into automatically created store accounts until they set a password on the My Account -> Set Password page, and can continue to log in through PayPal until a password has been set.

> Please note that the sharing of customer email addresses does not authorize your business to email consumers. For any communications not related to a purchase (such as marketing emails, newsletters, and offers), you must continue to present your customers with separate opt-in/out options.

Account Balance PayPal: Balance

The PayPal account balance of both *Live* and *Sandbox* accounts can be viewed on this page. If the PayPal account has been setup with multiple currencies, the balance of each currency is shown.

The PayPal account balance

API Logging PayPal: Log

All parameters sent in and received from an API call are recorded in the App. Each record can be inspected to follow through the process of a transaction and to help in finding the cause of a problem when transactions are not being processed sucessfully.

API calls that have been logged

> By default, all API calls are recorded to help start out with the App. As soon as succesful transactions have been processed in a live running store, it is recommended to set the logging of API calls to record errors only in the *Global Configuration* otherwise the size of the database will increase as each API call is logged.

Each API call has an *Action* logged to describe the nature of the call and which module was responsible for performing it. It's success or failure result can be quickly identified by a green or red tag. Green tags reference API calls that were performed successfully and red tags reference API calls that have failed. The module responsible for the API call is logged in its short form and can be identified as:

APP

A general call from the PayPal <u>App</u>, commonly called from the Orders administration page (captures and refunds).

DP

PayPal Payments Pro (<u>D</u>irect <u>P</u>ayment)

EC

PayPal <u>E</u>xpress <u>C</u>heckout

HS

PayPal Payments Pro (<u>H</u>osted <u>S</u>olution)

LOGIN

<u>Log In</u> with PayPal

PS

PayPal <u>P</u>ayments <u>S</u>tandard

The parameters of the API call can be viewed by hovering over the call to review and using the View button.

Online Updates

The PayPal App automatically checks once every 24 hours if an update for the App is available. This check is only performed while using the App and a real-time check is always performed on the Info/Help page.

The following notification is shown throughout the App if a new version is available:

A new version notification is shown

Details of the new version can be viewed by using the View Update button.

Details of each update available

The changelog of each update is shown which describes the changes that went into that update release.

The update can be performed automatically by using the Apply Update button. This will download the update, verify the package contents, confirm that the changes can be applied, and will then perform the update. If more than one update is available, the first update will be applied and will automatically continue to the next update in sequential order until all updates have been applied.

Applying an online update

Notifications will be displayed once all available updates have been applied, or if an error occurred during the process. A log of the process is available in the following location:

```
includes/apps/paypal/work/update_log-VERSION.php
```

Online updates that are applied will automatically update and overwrite files that have been updated. This will only be performed on files belonging to the App and will not touch other files in your store installation directory.

Order Administration

The redesigned order administration page displays the order information in a tabbed interface. This allows the interface to be extended by modules where the PayPal App adds a `PayPal` tab for orders that have been processed through PayPal. This adds the following functionality to the order administration page:

- Full or partial capture of authorizated transactions
- Full or partial refunds of captured transactions
- Cancelling authorized transactions
- Retrieving the current status of the transaction

The redesigned order administration page with a tabbed interface

The PayPal tab displays additional action buttons depending on the current state of the order.

Additional order action buttons in the PayPal tab

Capturing authorized transactions can occur in whole or through partial amounts. If authorized transactions are captured partially, an option is available to release the remaining amount if the remaining amount is not to be captured for the order.
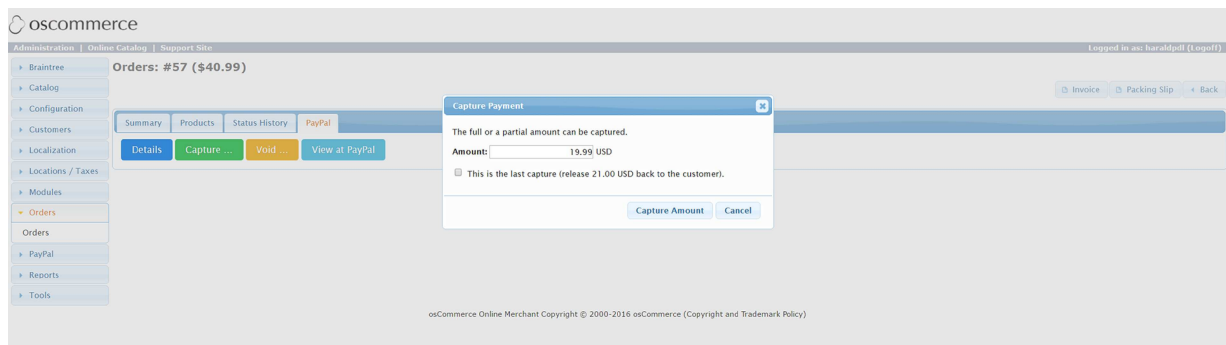
Capturing a transaction in whole or partially

As soon as an order administration action is performed, the order information page is reloaded with a status notification of the action being shown at the top of the page and for successful actions, additional transactional information is stored as an order status comment.
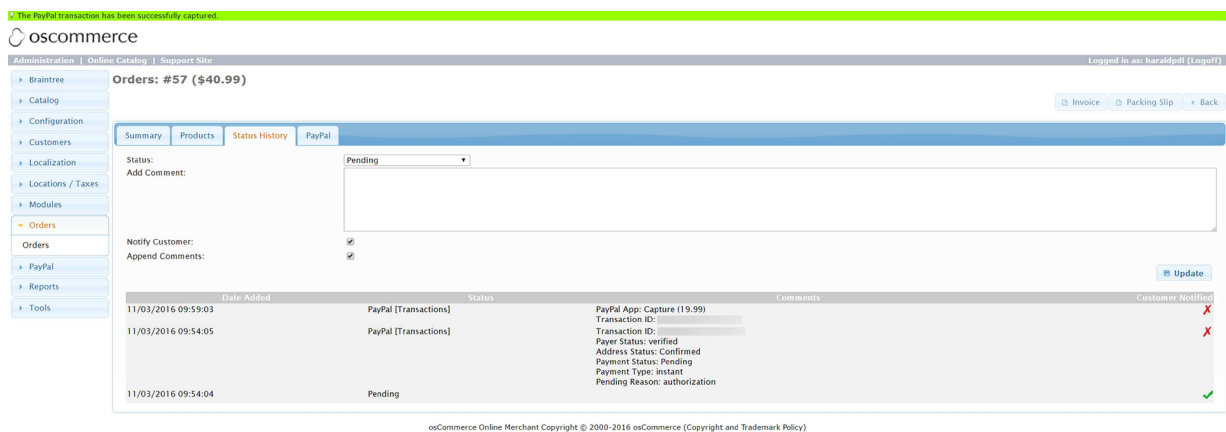
Performing a partial capture on an authorized transaction

The PayPal App detects that the current status of the order has changed and now displays a refund button to be able to refund captured authorizations.
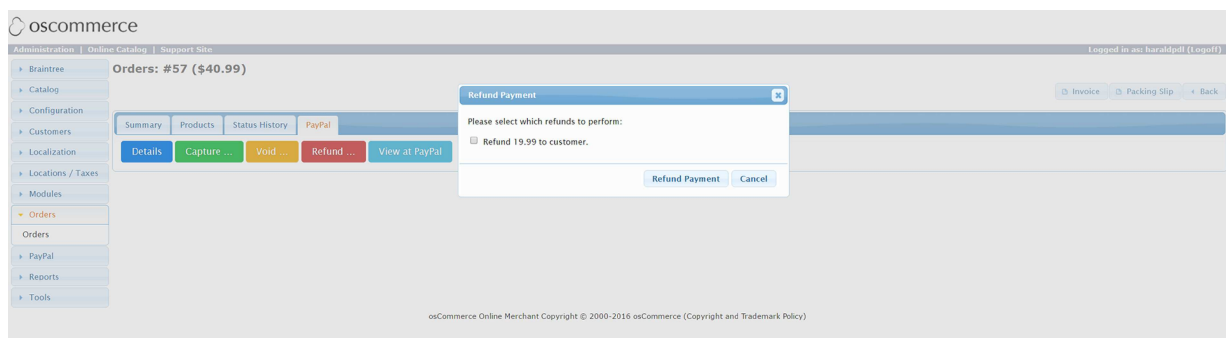
Refunding a previously captured transaction

TLS v1.2 Connections cURL SSL Version

The Payment Card Industry Security Standards Council (PCI SSC) has mandated that from June 30, 2018 secure communication channels between two systems must be performed with a secure version of the Transport Layer Security (TLS) cryptographic protocol (currently v1.1 or higher). As a leader in Financial Technology, PayPal has elected to move forward with upgrading their systems prior to the PCI Council recommended date and are requiring all merchant API communications with PayPal to be performed with **TLS v1.2** from **June 30, 2017**, discontinuing support for TLS v1.0 and v1.1.

Checking to see if the PayPal App can perform TLS v1.2 connections on your web server can be performed on the Configure → General page using the Test Connection button shown in the SSL Version parameter configuration. This opens a dialog window showing the result of the connection test using the default SSL version configured with PHP/cURL and with a forced connection using TLS v1.2.
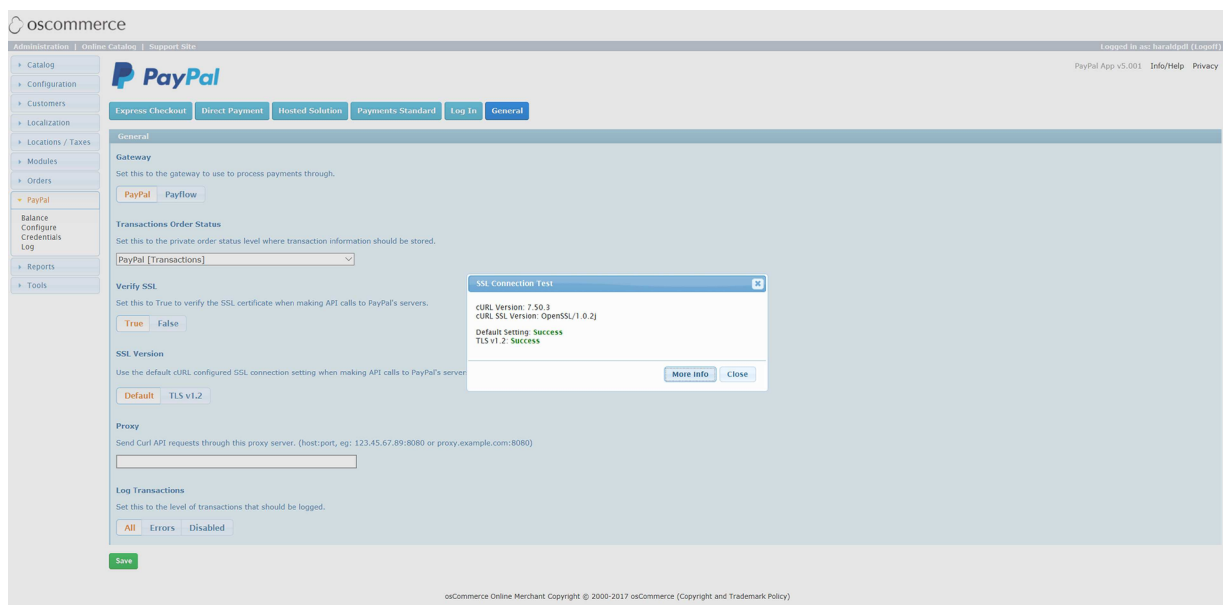
The Test Connection dialog showing successful connections for the default PHP/cURL configuration and forced TLS v1.2 connections

If the default setting is successful, it is generally safe to leave the SSL Version configuration parameter set to *Default*. This ensures that a connection to PayPal can be performed using at least TLS v1.2 or higher cryptographic protocol version.
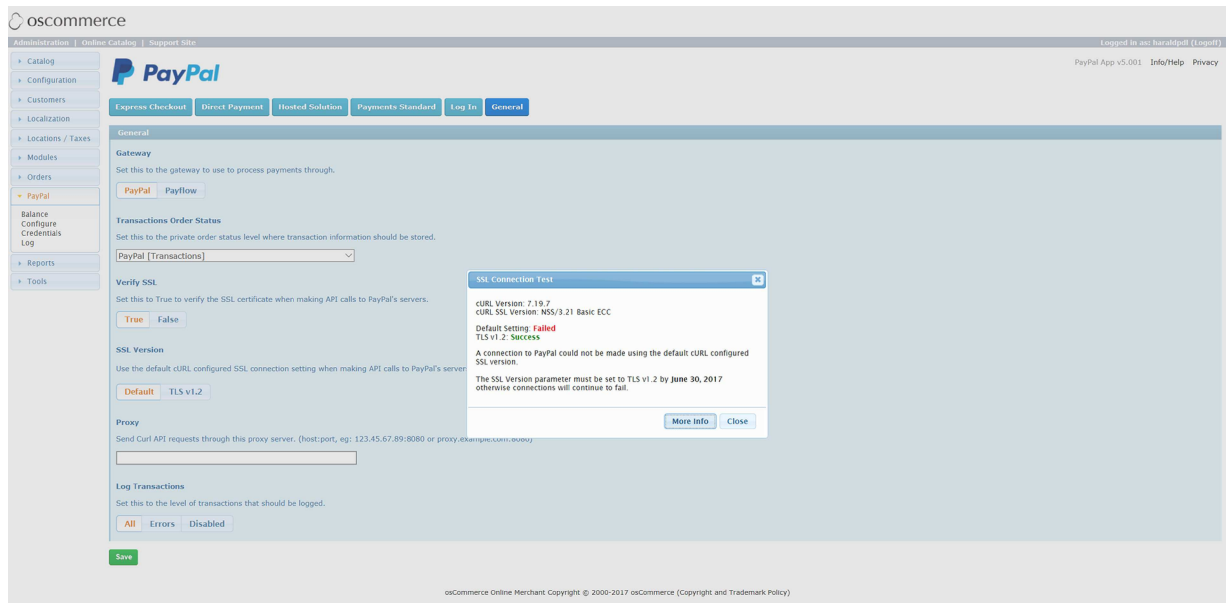
The Test Connection dialog showing a failed connection test using the default PHP/cURL configuration

If a connection using the default PHP/cURL configuration fails, setting the SSL Version configuration parameter to *TLS v1.2* is required if the test connection using TLS v1.2 is successful. This overrides the default configuration of PHP/cURL on your web server and ensures that a connection to PayPal can be performed using the TLS v1.2 cryptographic protocol version.
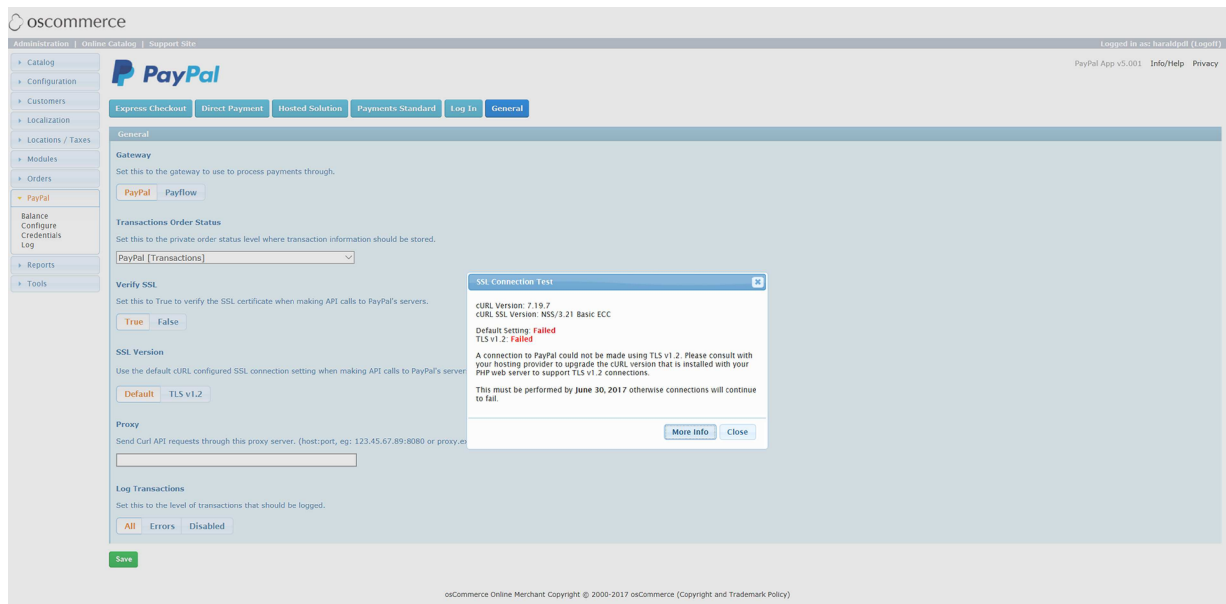
The Test Connection dialog showing a failed connection test using the default PHP/cURL configuration and a forced TLS v1.2 connection

If both test connections fail, please consult with your hosting provider to upgrade the cURL version that is installed with your PHP web server to support TLS v1.2 connections. If this is not performed by June 30, 2017, connections to PayPal will fail and orders will no longer be able to be processed using PayPal as a payment method.

Installation

The PayPal App is bundled from osCommerce Online Merchant v2.3.5 onwards and can be downloaded separately to install on existing or earlier installations. The App is compatible with and can be installed from osCommerce Online Merchant v2.2RC2a onwards.

> Usage of advanced features of the App require additional changes to be applied to existing installations. Please review the Legacy Changes section below.

Download

The full PayPal App download package is available at:

http://addons.oscommerce.com/info/9184

After extracting the App package, copy the files located in the *catalog* directory to your osCommerce Online Merchant installation directory on the server. The files must be copied in the correct directory structure as extracted from the App package.

> Please do not copy the *docs* directory to your webserver as this directory contains PHP files that should not be publicly accessible.

Legacy Changes

Existing osCommerce Online Merchant installations up to and including v2.3.4 require the following code changes to be performed:

1. Administration Tool App Setup
2. Hooks for the Administration Tool and Catalog
3. Administration Tool Order Administration Page
4. Public CA Certificate Bundle

Only the changes in (1) are required to add the PayPal App links to the Administration Tool. Changes (2), (3), and (4) are optional and are needed if transaction management is to be added to the Administration Tool Orders management page (this requires a new order management page which may overwrite installed Add-Ons).

1. Administration Tool App Setup

osCommerce Online Merchant up to v2.3.3.2 (5-Sept-2013)

In catalog/admin/includes/column_left.php, add the following to the collection of existing boxes being included:

```php
include(DIR_WS_BOXES . 'paypal.php');
```

osCommerce Online Merchant up to v2.2 RC2a (30-Jan-2008)

Copy (and overwrite) the following files from:

```
docs/legacy/v22rc2a/admin/includes/boxes/paypal.php
docs/legacy/v22rc2a/admin/includes/modules/index/paypal_app.php
docs/legacy/v22rc2a/admin/includes/template_top.php
docs/legacy/v22rc2a/admin/includes/template_bottom.php
```

to:

```
catalog/admin/includes/boxes/paypal.php
catalog/admin/includes/modules/index/paypal_app.php
catalog/admin/includes/template_top.php
catalog/admin/includes/template_bottom.php
```

2. Hooks for the Administration Tool and Catalog

osCommerce Online Merchant up to v2.3.4 (5-June-2014)

Copy the following file from:

```
docs/legacy/v234/includes/classes/hooks.php
```

to:

```
catalog/includes/classes/hooks.php
```

In the following file:

```
catalog/includes/application_top.php
```

add to the bottom (before ?>):

```php
require(DIR_FS_CATALOG . 'includes/classes/hooks.php');
$OSCOM_Hooks = new hooks('shop');
```

In the following file:

```
catalog/admin/includes/application_top.php
```

add to the bottom (before ?>):

```php
require(DIR_FS_CATALOG . 'includes/classes/hooks.php');
$OSCOM_Hooks = new hooks('admin');
```

3. Administration Tool Order Administration Page

osCommerce Online Merchant up to v2.3.4 (5-June-2014)

Copy (and overwrite) the following file from:

```
docs/legacy/v234/admin/includes/classes/order.php
```

to:

```
catalog/admin/includes/classes/order.php
```

Copy (and overwrite) the following file from:

```
docs/legacy/v234/admin/orders.php
```

to:

```
catalog/admin/orders.php
```

In all catalog/admin/includes/languages/LANGUAGE/orders.php language files, add the following language definition:

```
define('ENTRY_ADD_COMMENT', 'Add Comment:');
```

4. Public CA Certificate Bundle

osCommerce Online Merchant up to v2.3.3 (15-August-2012)

Copy the following file from:

```
docs/legacy/v233/includes/cacert.pem
```

to:

```
catalog/includes/cacert.pem
```

First Run

When the files have been copied to their appropriate locations and the *Legacy Changes* have been performed, a new PayPal navigation menu box will show in the Administration Tool. The first time the App is run, it automatically configures itself and migrates older module configuration parameters to the App parameters, and checks if an online update is available.

Language Definitions

The core language definitions in English are provided in the App package. Additional languages can be created by basing the language files on the existing English files. Definitions that have not yet been translated will display in English. The language definitions are located in:

```
includes/apps/paypal/languages/
```

Online Demonstration

A client side online demonstration of the PayPal App and its modules is available at:

https://demo.oscommerce.com

> The PayPal App has been configured with PayPal's Sandbox environment and requires a sandbox account for Log In with PayPal and the PayPal payment modules.

Privacy Policy

API Credentials

The PayPal App for osCommerce Online Merchant allows store owners to automatically setup and configure the App with their PayPal API credentials without the need to enter them manually. This is performed securely by granting osCommerce access to retrieve the API credentials from the store owners PayPal account.

Granting osCommerce access allows the following limited information to be retrieved from the store owners PayPal account:

- API Username
- API Password
- API Signature
- Merchant Account ID
- PayPal E-Mail Address

No other account information is accessed (eg, PayPal account username or password, account balance, transaction history, etc.).

The API Username, API Password, API Signature, and Merchant Account ID information are used to automatically configure the PayPal modules bundled in the PayPal App, including:

- PayPal Payments Standard
- PayPal Express Checkout
- PayPal Payments Pro (Direct Payment)
- PayPal Payments Pro (Hosted Solution)
- Log In with PayPal

The process is started by using the Retrieve Live Credentials and Retrieve Sandbox Credentials buttons displayed on the PayPal App start and credentials management pages. The store owner is securely taken to PayPal's website where they are asked to grant osCommerce access to retrieve the API credentials, and are then redirected back to their online store to continue configuration of the PayPal App. This is performed with the following steps:

1. The store owner clicks on Retrieve Live Credentials or Retrieve Sandbox Credentials and is securely taken to an initialization page on the osCommerce website that

registers the request and immediately redirects the store owner to an on-boarding page on the PayPal website. osCommerce registers the following information in the request:

- A uniquely generated session ID.
- A secret ID to match against the session ID.
- The URL of the store owners PayPal App (to redirect the store owner back to).
- The IP-Address of the store owner.

2. PayPal asks the store owner to log into their existing PayPal account or to create a new account.
3. PayPal asks the store owner to grant osCommerce permission to retrieve their API credentials.
4. PayPal redirects the store owner back to the initialization page on the osCommerce website.
5. osCommerce securely retrieves and stores the following information from PayPal:

- API Username
- API Password
- API Signature
- Merchant Account ID

6. The store owner is automatically redirected back to their PayPal App.
7. The PayPal App performs a secure HTTPS call to the osCommerce website to retrieve the API credentials.
8. The osCommerce website authenticates the secure HTTPS call, sends the API credentials, and locally discards the API credentials and PayPal App URL stored in steps 1 and 5.
9. The PayPal App configures itself with the API credentials.

> The API Credentials retrieved from the store owners PayPal account are only used to configure the PayPal App. osCommerce temporarily stores the API Credentials as described in this privacy policy, and discards the API Credentials as soon as the process is over. A back-end script is also run to discard any stored information for processes that have not finalized.

> osCommerce has worked closely with PayPal to ensure the PayPal App follows strict privacy and security policies.

PayPal Modules

PayPal modules send store owner, online store, and customer related information to PayPal to process API transactions. These include the following modules:

- PayPal Payments Standard

- PayPal Express Checkout
- PayPal Payments Pro (Direct Payment)
- PayPal Payments Pro (Hosted Solution)
- Log In with PayPal

The following information is included in API calls sent to PayPal:

- PayPal account information of the seller / store owner including e-mail address and API credentials.
- Customer shipping and billing addresses.
- Product information including name, price, and quantity.
- Shipping and tax information applicable to the order.
- The order total and currency.
- Store URLs to process, verify, and finalize PayPal transactions, including success, cancelled, and IPN URLs.
- E-Commerce solution identification.

> The parameters of each transaction sent to and recieved from PayPal can be inspected on the PayPal App Log page.

App Updates

The PayPal App for osCommerce Online Merchant automatically checks the osCommerce website for updates that are available to the App. This check is performed once every 24 hours and if an update is available, a notification is shown to allow the App to download and apply the update.

A manual check for available updates is also performed on the PayPal App Info/Help page.

Google Hosted Libraries (jQuery and jQuery UI)

If jQuery or jQuery UI are not already loaded in the Administration Tool, the PayPal App administration pages automatically load the libraries securely through Google Hosted Libraries.

Changelog

PayPal App

v5.010 01-Mar-2017

- Add new general App parameter to test and use the default server configured SSL version when performing API requests to PayPals servers or force TLS v1.2 connections. (TLS v1.2 connections are required from June 30, 2017)

- Use the customer address suburb value as the street2 parameter value for Payments Standard, Express Checkout, Direct Payment, and Hosted Solution.

- Payments Standard: If "receiver_email" is not returned back to the store, fallback to "business" to verify the transaction with.

- Payments Standard: Disable the module if the App API Credentials or module PDT configuration parameters have not been entered. Either is now required to be able to verify the transaction when the customer returns back to the store after payment is made.

- Payments Standard: Strip extra slashes that were being logged.

- Payments Standard: Remove deprecated NO_NOTE and PAGE_STYLE parameters. (deprecated Sept. 2016)

- Express Checkout: Remove deprecated ALLOWNOTE and PAGESTYLE parameters. (deprecated Sept. 2016)

- Update osCommerce links from http to https.

v5.001 19-Feb-2017

- Fix getIdentifier() usage in the PayPal Payments Standard module.

v5.000 03-Nov-2016

- Use PayPal API 204.

- Add Merchant Account ID field to Manage Credentials page.

- PayPal Express Checkout: Enable In-Context checkout flow by default.

- PayPal Express Checkout: Add configuration parameters to control Checkout with PayPal button color, shape, and size.

- Remove country restrictions for API Retrieval service.

- General improvements and bugfixes.

v4.039 09-Dec-2014

- Initial public release.

- Add Administration Dashboard module to show the live or sandbox account balance and to check if an online update exists.

- Payments Standard: When the customer returns back to the store after payment has been made, detect if the IPN has been received and skip over a check in checkout_process.php that verified if product quantities existed in stock. (If the IPN deducated the quantity already and stock reached 0, checkout_process.php would see this and redirect the customer to the shopping cart page)

- Fix compatibility conflict in the admin orders class.

- Show a success or failure message when order administration actions are performed.

- Show missing configuration requirements on module configuration page.

v4.027 28-Nov-2014

- Add support for Payments Standard Payment Data Transfer (PDT). If the Identity Token has not been configured, use the API Credentials to retrieve the transaction information.

- Add support for admin order transactions to Payments Standard and Hosted Solution.

- Redirect to the order status history tab after an admin order transaction has been performed.

- Bug: Fix order total and transaction total comparison mismatch notification stored in the order status comment.

v4.016 08-Nov-2014

- Minor compatibility updates for v2.2rc2a.

- Payments Standard: Add stock level management and order email notifications to IPN.

- Add compatibility with v2.3.5 shipping class get_first() class method. If class method is not found, revert to using cheapest() class method.

v4.000 31-Oct-2014

- Initial beta release.

- Bundle PayPal modules into App:
  - PayPal Payments Standard
  - PayPal Express Checkout
  - PayPal Express Checkout (Payflow Edition)
  - PayPal Payments Pro (Direct Payment)
  - PayPal Payments Pro (Direct Payment Payflow Edition)
  - PayPal Payments Pro (Hosted Solution)
  - Log In with PayPal

Legacy Modules

Express Checkout

v3.1 09-Jun-2014

- v2.2 compatibility updates (jQuery is now injected into the page when it has not been loaded).

v3.0 27-May-2014

- Use API 112.

- If the Set Password account content module is installed, leave the password of the automatically created customer account for guests empty and don't e-mail the customer (requires osCommerce Online Merchant v2.3.4).

- Show PayPal logo on the checkout confirmation page as the payment method instead of the module public title.

- Allow a PayPal defined Page Style to be used.

- Only add line items if line item total calculations matches order total calculations.

- Add extra Order Total modules as product line items.

- Additionally verify the PayPal transaction before the order is processed.

- Allow Instant Update to prevent the customer from proceeding through Express Checkout if no shipping rates are available for the shipping destination (requires osCommerce Online Merchant v2.3.4).

- Support Log In with PayPal Seamless Checkout.

- Support error code 10486 for when insufficient funds are available in the customers PayPal account.

v2.0 08-Oct-2013

- Use API 104.

- Label public title with sandbox tag when in sandbox testing mode.

- Add Test Connection link in module configuration page.

- Verify SSL connections with PayPal public key certificate.

v1.2 19-Aug-2013

- Use API 60.

- Allow debug transaction information to be sent in an e-mail for failed transactions.

- Pre-Configure the module for new installations with the store configured store owner e-mail address.

v1.1 18-Feb-2010

- Use API 57.

- Add support for PayPal Account Optional.

- Introduce Instant Update to have PayPal retrieve shipping rates and taxes based on the shipping destination.

- Include PayPal transaction information in a private order status level.

- Automatically create customer accounts for guests when returning back to the store from the Express Checkout flow. Accounts are created with an automatically generated random password that is e-mailed to the customer.

v1.0 11-Jan-2008

- Initial Release

Express Checkout (Payflow Edition)

v3.1 09-Jun-2014

- v2.2 compatibility updates (jQuery is now injected into the page when it has not been loaded).

v3.0 27-May-2014

- Automatically create customer accounts for guests when returning back to the store from the Express Checkout flow.

- If the Set Password account content module is installed, leave the password of the automatically created customer account for guests empty and don't e-mail the customer (requires osCommerce Online Merchant v2.3.4).

- Show PayPal logo on the checkout confirmation page as the payment method instead of the module public title.

- Allow a PayPal defined Page Style to be used.

- Only add line items if line item total calculations matches order total calculations.

- Add extra Order Total modules as product line items.

- Additionally verify the PayPal transaction before the order is processed.

v2.0 22-Aug-2013

- Label public title with sandbox tag when in sandbox testing mode.

- Add Test Connection link in module configuration page.

- Verify SSL connections with PayPal public key certificate.

- Include PayPal transaction information in a private order status level.

v1.0 11-Jan-2008

- Initial Release

Payments Pro (Direct Payment)

v3.1 09-Jun-2014

- v2.2 compatibility updates (jQuery is now injected into the page when it has not been loaded).

v3.0 27-May-2014

- Use API 112.

- Add line items if line item total calculations matches order total calculations.

- Include PayPal transaction information in a private order status level.

v2.0 20-Aug-2013

- Use API 104.

- Verify SSL connections with PayPal public key certificate.

- Remove card entry fields from the checkout payment page (now only entered on the checkout confirmation page).

- Add Test Connection link in module configuration page.

- Dynamically update card entry fields depending on card type.

- Allow card types to be enabled/disabled.

v1.1 22-Jan-2008

- Add configuration parameter to control where the card details should be collected; either on the checkout payment or checkout confirmation page. This is needed for 2.2MS2 compatibility which can only collect card details on the checkout payment page.

v1.0 11-Jan-2008

- Initial Release

Payments Pro (Direct Payment Payflow Edition)

v3.1 09-Jun-2014

- v2.2 compatibility updates (jQuery is now injected into the page when it has not been loaded).

v3.0 27-May-2014

- Add line items if line item total calculations matches order total calculations.

- Include PayPal transaction information in a private order status level.

v2.0 20-Aug-2013

- Verify SSL connections with PayPal public key certificate.

- Remove card entry fields from the checkout payment page (now only entered on the checkout confirmation page).

- Add Test Connection link in module configuration page.

v1.1 22-Jan-2008

- Add configuration parameter to control where the card details should be collected; either on the checkout payment or checkout confirmation page. This is needed for 2.2MS2 compatibility which can only collect card details on the checkout payment page.

- Split card owner name into two fields for the first and last name.

v1.0 11-Jan-2008

- Initial Release

Payments Pro (Hosted Solution)

v1.1 09-Jun-2014

- v2.2 compatibility updates (jQuery is now injected into the page when it has not been loaded).

- Fixed tested gateway in API Server Connection dialog.

v1.0 27-May-2014

- Initial Release

Payments Standard

v3.2 09-Jun-2014

- v2.2 compatibility updates (jQuery is now injected into the page when it has not been loaded).

v3.1 01-Jun-2014

- Include line items when line item total calculations matches order total value.

v3.0 27-May-2014

- Show PayPal logo on the checkout confirmation page as the payment method instead of the module public title.

- Include PayPal transaction information in a private order status level.

v2.0 22-Aug-2013

- Label public title with sandbox tag when in sandbox testing mode.

- Add Test Connection link in module configuration page.

- Add additional checks when processing the order.

v1.1 28-May-2013

- Additionally verify the PayPal transaction before the order is processed.

- Add Primary Seller E-Mail Address parameter for cases when it is different to the Seller E-Mail Address.

- Verify SSL connections with PayPal public key certificate.

v1.0 11-Jan-2008

- Initial Release

Log In with PayPal

v1.0 27-May-2014

- Initial Release