



LiteCommerce PHP CyberSource Module

Version 2.1

Reference Manual

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Introduction

LiteCommerce PHP CyberSource add-on module introduces support for secure CyberSource website payment services. CyberSource is a payment gateway with a broad experience in developing electronic payment and card-not-present fraud detection technology, providing services and software designed to automate the commerce transaction process in multi-sales channel environments. The payment solution offered by CyberSource provides scalability for card types, transaction volumes, processor variations, and is now flawlessly integrated with LiteCommerce.

This manual will guide you through the process of **PHP CyberSource** add-on module installation and use.

1. Administrator Zone

This section contains information about:

- [installing the LiteCommerce PHP CyberSource add-on module](#);
- [CyberSource certificates and private keys](#);
- [configuring the module](#);
- [activating CyberSource Payment method](#).

1.1 System Requirements

To successfully install **PHP CyberSource add-on module version 2.1** your online store requires LiteCommerce shopping cart software version 2.1 Service Pack 1 or later to be installed.

Additional requirements are:

- **If your server is Linux-based:**

- Linux® kernel 2.2, LibC6 on an Intel® processor (for RedHat users, this currently corresponds to versions 7.1 and 7.2);
- PHP4 (minimum version 4.2.1);
- GNU gcc;
- CyberSource Simple Order API Client for PHP.

Note: Please address your ISP to see whether CyberSource Simple Order API Client is installed or can be installed on your server. If you are managing your own server, please visit the CyberSource website at <http://www.cybersource.com/> to download the client and read the installation instructions.

- **If your server is Windows-based:**

- Windows® XP, 2000, or newer;
- Minimum PHP version 4.2.1;
- CyberSource Simple Order API Client for PHP.

- **If your server is FreeBSD-based:** all you need is PHP4 version 4.2.1 or higher running on the server.

Moreover, in order to use CyberSource services, you must hold a CyberSource account.

1.2 Installing the Module

Select the 'Modules' section in the 'Settings' menu of the Administrator Zone. The list of currently installed modules will appear. To install a module (**PHP CyberSource** in our case) click on the '**Browse...**' button, select the module's '.tar' file and click on the '**Install**' button to add the module to your store setup (Figure 1).

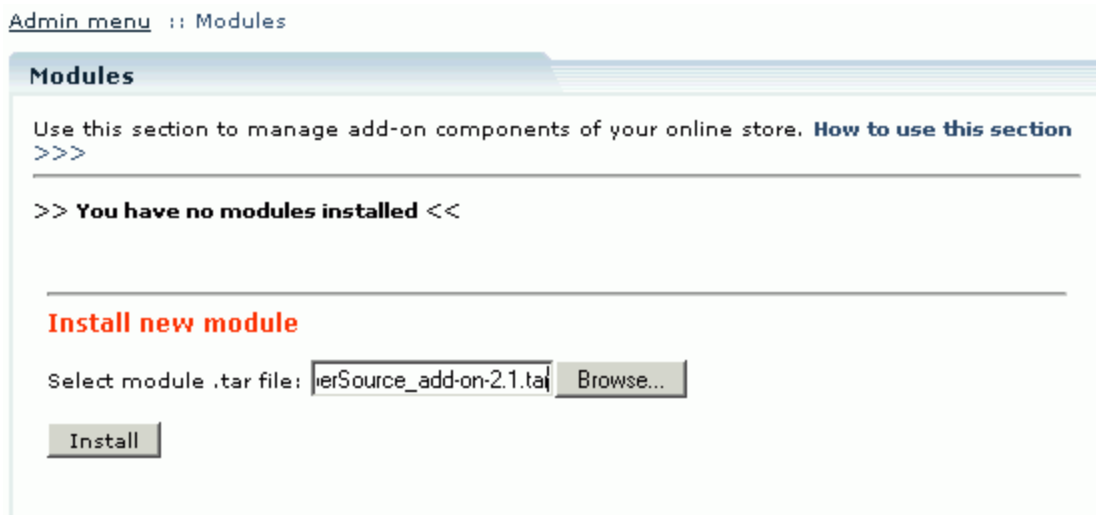


Figure 1: New module installation

PHP CyberSource module will appear in the list (Figure 2); it will be activated automatically.

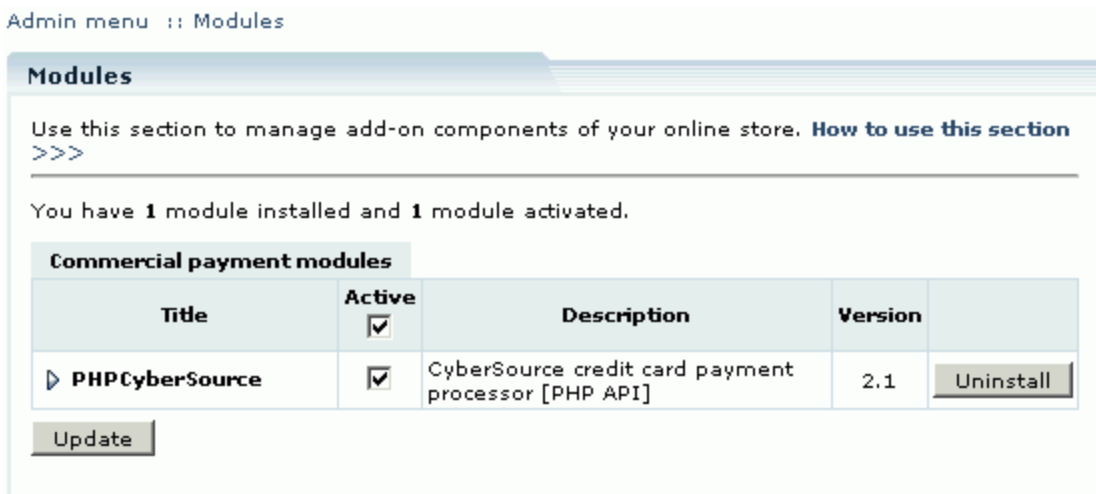


Figure 2: PHPCyberSource module installed

To deactivate the module, unselect the 'Active' check box against the module title and click on the '**Update**' button. To completely uninstall the module, click on the '**Uninstall**' button.

1.3 CyberSource Certificates and Private Keys

CyberSource uses technology based on public key cryptography to securely exchange messages over the Internet. This technology requires each business partner to have a key pair: a public key, which is delivered in a certificate, and a private key. Before you can securely exchange messages with CyberSource, you must generate your certificate and private key.

You and CyberSource each have your own certificate, which you share, and your own private key, which you keep secret. CyberSource gives you the CyberSource certificate, while keeping the CyberSource private key confidential. Likewise, you share your certificate with CyberSource, but keep your private key secure.

To generate your certificate and private key, use the ECert application included with your installation software. You need your merchant ID to run ECert. If you do not have a merchant ID, register for an evaluation account at <http://www.cybersource.com/register>.

After you run ECert to generate your certificate and private key, you can securely send transaction requests to the CyberSource test server. When you go live, you can securely send transaction requests to the CyberSource production server.

When the ECert application successfully runs, it writes the following files to disk (merchant_id is replaced by your merchant ID number):

- merchant_id.crt - certificate file
- merchant_id.pvt - private key file
- merchant_id.pwd - password file
- CyberSource_SJC_US.crt - CyberSource certificate file

Note: The ECert application automatically sends a copy of your certificate (.crt) file, but not your private key (.pvt) file, to the CyberSource ICS server. Always keep your private key secret.

Your certificate (.crt) and private key (.pvt) files are paired and must be used together.

You need to update your certificate and private key yearly to reduce the risk of having them compromised. For more information, see the *CyberSource Certificate Update User's Guide*, available on the [CyberSource Support Center](#).

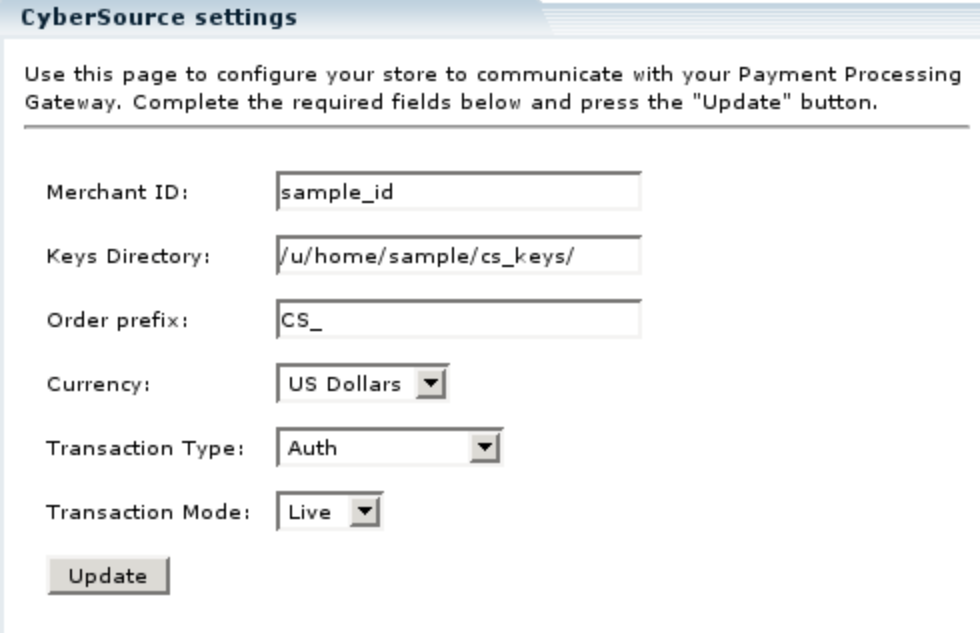


It is highly recommended that the 'keys/' directory is located outside of the web-space of your online store (i.e. is not accessible through the web).

1.4 Configuring the Module

After you have successfully installed the **PHP CyberSource** module, CyberSource payment method needs to be configured before you can make it available to customers. Click on the 'PHP CyberSource' link to enter the module's settings page (Figure 3) and complete the following settings:

Admin menu :: Payment methods :: CyberSource configuration



CyberSource settings

Use this page to configure your store to communicate with your Payment Processing Gateway. Complete the required fields below and press the "Update" button.

Merchant ID:

Keys Directory:

Order prefix:

Currency:

Transaction Type:

Transaction Mode:

Figure 3: Configuring CyberSource payment method

- **Merchant ID:** type in your Merchant ID issued for your company by CyberSource. Please visit CyberSource website at <http://www.cybersource.com/> for information on opening an account with CyberSource and obtaining a Merchant ID.
- **Keys directory:** type in the full pathname to the 'keys/' directory where your CyberSource security keys are stored (do not include 'keys/' in the path).

Example: if your CyberSource security keys are stored in a directory named `/u/home/cyber_source/keys`, enter `/u/home/cyber_source` in the 'Keys directory' field.

- **Order prefix:** this setting is useful if you have multiple online stores offering CyberSource payments; specify a unique store prefix in this field to separate individual store orders on CyberSource.
- **Currency:** specify the currency in which CyberSource transactions should be carried out. Available currencies are: US Dollar, British Pound Sterling and Euro.
- **Transaction type:** specify whether you want CyberSource payment gateway to use 'Auth' or 'Auth & Capture'

' type of transactions:

- **'Auth'** transaction type is used to verify that the cardholder has the funds available against his line of credit. A positive authorization results in an authorization code being generated, and those funds being set aside. The cardholder's available credit limit or open to buy is reduced by the authorized amount. When the transaction of this type is complete, the corresponding LiteCommerce order is marked as 'Queued'. Choose this transaction type if the total cost of orders at point of sale is not complete for some reason (such as unknown shipping charges) and you expect to capture funds after checkout is complete.
- **'Auth & Capture'** transaction type should be used if your buyers' orders are final (for example, if total costs of orders are complete with shipping, handling and tax charges). In this case you do not expect additional charges to the buyers, and the authorization amount is converted into a billable transaction. When the transaction is complete, the corresponding LiteCommerce order is marked as 'Processed'.
- **Transaction mode:** specify whether you want to run CyberSource payment method in '*Live*' or '*Test*' mode. When running in test mode, PHP CyberSource module uses CyberSource test environment to process CyberSource transactions.

Review the settings and click on the '**Update**' button to save them.

Note: In order to be able to use CyberSource payments in '*Test*' mode, you must receive a Merchant ID from CyberSource and open a test account.

1.5 Activating CyberSource Payment Method

When you have configured CyberSource payment gateway settings, you need to activate CyberSource payment method in order to make it available to your customers:

- Click on the 'Payment methods' link in the 'Settings' menu of the Administrator Zone (Figure 4).
- New payment method with 'phpcybersource_cc' ID is now available in the list of existing payment methods. Activate it by placing a checkmark in the 'Active' field.
- Click on the **'Update'** button to finalize the setup.

Admin menu :: Payment methods

Payment methods

This page is used to define payment methods you'd like to accept for your store.

Optional "special instructions" can be defined for each payment method. They will be shown to the customer during checkout and can be used to pass along important information to the customer. Example: "Make all checks payable to..."

ID	Method	Special instruction	Pos	Active
credit_card	Credit Card	Visa, Mastercard, American Express	10	<input type="checkbox"/>
phpcybersource_cc	CyberSource	Visa, Mastercard, American Express	20	<input checked="" type="checkbox"/> Configure

Figure 4: Activating CyberSource payment method

2. Customer Zone

The functionality of the **PHP CyberSource** add-on module is transparent to your customers. When a customer submits his order, transaction request is processed in the background. For the details on how CyberSource payment gateway processes the transactions, please refer to the detailed documentation at CyberSource website: <http://www.cybersource.com/>.

Terms and Definitions

Administrator: a 'super-user' of the online store system who is privileged to configure the entire store and manage products, customers and orders;

Administrator zone: an administrator back office where the store Admin can configure, control and monitor store operations, enable or configure various features of the store;

Customer: a registered store user;

Customer zone: an area at the online store where store customers can manage their profiles and review their orders;

Merchant: a company that operates a web store;

Merchant ID: an identifier issued by CyberSource for a single merchant who uses CyberSource Stored Value services;

Payment gateway: a service provided by a billing processor, which allows credit card information to be collected and passed over the Internet;

User: anyone who visits the online store.