:: LinkPoint PHP Wrapper (LPHP)

Version 1.0

User Manual

LinkPoint

INTERNATIONAL®

LINKPOINT PHP WRAPPER

(LPHP)

VERSION 1.0

USER MANUAL

LinkPoint International, Inc.

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ABOUT THIS MANUAL

This document was created with the assumption that the user has the basic administrative knowledge and permissions of the operating system and environment onto which LinkPoint PHP Wrapper (LPHP) is being installed.

If this is not a valid assumption, please contact your LinkPoint International representative for further installation assistance.

INTRODUCTION

The LinkPoint PHP Wrapper (LPHP) is a PHP interface to the LinkPoint Secure Payment Gateway. LPHP is supported under numerous operating systems, including

- Microsoft Windows NT
- RedHat Linux
- FreeBSD,
- BSDI Unix
- HP-UX
- Solaris

For the specific versions of the operating systems supported by LPHP, please see the LinkPoint website http://www.linkpoint.com.

Packaged within the LPHP TAR or ZIP distribution is the following:

- lbin - LinkPoint Binary

This file is an executable program compiled for a specific operating system that provides an interface between the PHP programming language and the LinkPoint Secure Payment Gateway API.

- LPPHP.php3 - LinkPoint PHP Module

This file is the PHP module that provides an interface between your PHP program and the 'lbin' executable program. This module accepts a hash table as a parameter, which contains all of the data fields passed to 'lbin'. These data are written to a temporary file, which is opened by 'lbin', parsed, and sent to the payment gateway for processing. The gateway then processes the transaction and returns the response codes to the PHP module.

- lptest - LinkPoint PHP Sample Program(s)

The LinkPoint PHP Sample Program is actually a collection of programs that perform a variety of transactions as an implementation example. As of this writing, samples are provided to perform numerous types of transactions, including transactions that are commonly combined such as a sales tax computation, shipping computation, followed by a credit card charge.

Setup

First, an archive utility such as TAR or UNZIP is required which is specific to the operating system type that you're using, whether Windows or Unix. Please see the following two sections as appropriate.

Microsoft Windows NT

If using Microsoft Windows NT, a ZIP file utility such as PKZIP or WinZip must be used to decompress (EXTRACT) the module, binary, and sample programs from the ZIP file. In addition to PKZIP and WinZip, numerous public domain programs are available to handle ZIP files from sites such as www.tucows.com, www.winsite.com and www.simtel.net.

Unix

Archive files for Unix are created using TAR, which is generally available as a built in command in Unix. In some cases, hosting companies have blocked access to utilities in order to improve system security and stability, though TAR is generally available. Check with your hosting company or website administrator if you're unsure whether the TAR utility is available to you.

Generally speaking, all web servers such as IIS, iPlanet, Apache, and others have a trusted directory where they put files that can be executed by the web server. This is most often called the CGI directory. Many web servers use the name 'cgi-bin' as their default CGI directory. IIS uses the name 'scripts' by default. This is the directory where you would want to extract your LPHP scripts and the lbin binary.

Unix web-servers impose an additional requirement in that they are configured with a 'user' account that is used when executing scripts and binary files. The permissions for the LPHP module script and binary files must be such that the web-server is allowed to execute them. Apache, for instance, uses the default user account 'Nobody' when running scripts. Therefore, the user Nobody must be the owner of the script, have group permissions, or the script must have world execute permission.

Using the archive (TAR/ZIP) utility, EXTRACT all files from the archive into an appropriate directory. If you're uncertain where to put the extracted files, contact your hosting company or website administrator for direction. The following instructions are generally true. Though, as all computers vary, so do the specific instructions for installation of LPHP.

One of the most common problems presented on Unix machines has to do with file permissions. Some host companies and website administrators solve the problem using world permissions. This, however, can be a dangerous solution and can result in grave security risks. For example, a script that performs return transactions could be used to improperly return money to a credit card if not secured properly. Thus, to reduce the risk of fraud, carefully consider what capabilities are put into scripts and how the scripts interact with web pages.

A technique that has been used to commit fraud in the past and a situation that should be avoided is embedding transaction information inside a web page. That is, do not use hidden fields or querystring parameters to pass amounts from one page to the next. If a web site has a page where users can select an item to purchase and a confirmation page is displayed, a user could save the HTML code on his own computer, then edit the dollar amount inside the HTML, and submit the page as if no change had taken place. In this situation, the order could be shipped at a substantially reduced price.

OPERATION AND USE

The LPHP wrapper contains PHP sample scripts demonstrating the following functions:

- CapturePayment
- BillOrders
- ApproveSale
- CalculateTax
- CalculateShipping
- VoidSale
- SetPeriodic
- VirtualCheck
- ReturnOrder
- ReturnCard
- BillOrder

CapturePayment

Obtains pre-authorization from the card-issuing bank for a credit card charge. Generally, this pre-authorization assures the merchant that a subsequent post-authorization will be approved. Please note that the pre-authorization by the bank is subject to the banks expiration rules and policies. Many banks will expire the pre-authorization after seven days, though other banks will do this after three days. This time period is highly dependent on rules by the card-issuing bank. Pre-authorization is a request to the card-issuing bank to pre-approve a charge. In the United States, it is against regulations to apply a credit card charge before shipping the merchandise to the customer. Generally, the merchant should obtain pre-authorization for the credit card, ship the merchandise, and then post-authorize the transaction. Note that the funds will not be transferred until the post-authorization occurs. In the LinkPoint Reports, the "SHIPPED" field indicates that the post-authorization has occurred.

BillOrders

This function is used to post-authorize a transaction. The order ID used for pre-authorization (or the generated OID if it was generated by the system) is passed to BillOrders.

ApproveSale

This function is very similar to the CapturePayment function, though its purpose is to obtain authorization from the card-issuing bank and transfer funds immediately. Therefore, ApproveSale essentially does both the pre-authorization and post-authorization. This function is primarily used for services and transactions where there is no physical merchandise being transferred to the customer, such as an online sale or Electronic Software Download (ESD).

CalculateTax

Calculates sales tax for a dollar amount based upon a sales tax table set up in the merchant account. The sales tax table will base the sales tax computations upon the zip code passed ('taxzip') in the hash table.

NOTE: For CalculateTax to work properly, the merchant account must be configured with a "TAX LINE". For instructions, contact lphpsupport@linkpoint.com.

CalculateShipping

Calculate shipping for a dollar amount based upon ship weight, carrier, and other factors passed to the function. The computation is based upon a shipping computation table.
NOTE: For CalculateShipping to work properly, the merchant account must be configured with a shipping file. For instructions, contact lphpsupport@linkpoint.com.

VoidSale

This function will void a post-authorization. Please note that transactions can only be voided prior to settlement. Typically, settlement occurs nightly when batches are closed. Transactions that have been pre-authorized only (no post-authorization performed by ApproveSale or BillOrders) cannot be voided, though this is rarely a problem because pre-authorizations will be expired automatically by the bank after a fixed period of time. Transactions that have been settled should be issued a credit, if necessary, rather than voided.

SetPeriodic

This function is intended to set up a recurring billing. Again, this function does not guarantee approval. Its purpose is to generate transactions on a credit card at a specified rate.

VirtualCheck

This function is intended to allow processing of electronic (virtual) checks. Please note that, as with paper checks, submission of a Virtual Check does not guarantee payment. Virtual Checks can be returned unpaid or a stop payment can be issued. Merchants may not want to ship merchandise to a customer before a Virtual Check is funded by the bank.

ReturnOrder

This function will issue a credit to a credit card. The credit can be a return against an existing order or an outright credit to a specific card number. To issue a credit against an order, pass the order ID to the ReturnOrder function. The ability to issue a credit to a credit card without indicating an order ID can be limited in the merchant's configuration on the gateway. Contact customer support to add or remove the ability to do this. Please note that issuing a credit to a card without an associated charge may be a violation of regulations or your merchant agreement. Do not issue these types of credits without ensuring that it is in compliance with all regulations and agreements.

ReturnCard

Currently, this function performs identically to ReturnOrder. See the ReturnOrder description for details.

BillOrder

This function is used internally by BillOrders and is not typically used in your own PHP programs. To see an example of how this function is used, however, look at the BillOrders function in the LPPHP.php3 PHP module. The result of a call to this function differs from a call to the functions above in that, rather than returning a new hash table, new entries are added to the hash table that is passed to BillOrder.

TYPICAL TRANSACTIONS

To completely understand how to use LPHP, it is helpful to understand how it works. A few typical transactions through the LPHP Wrapper work as follows:

Pre-authorization

1. In your PHP program create a hash table containing the values you wish to pass to the CapturePayment function.

2. Call the CapturePayment function and pass the hash table as a parameter to the function.

3. A hash table will be returned containing the result of the transaction.

4. Look at 'statusCode' field returned in the hash table. If the call was successful, 'statusCode' will be 1. If it was unsuccessful, statusCode will be 0. If 'statusCode is 0', look at 'statusMessage' to determine the reason.

5. If 'statusCode' is 1, store the order ID in a file or database for use during post-authorization. Please note that often this step is not done. Another way to trigger the post-authorization is to go to the LinkPoint Reports page and select View Orders. Using one of the search options, display an order or a page of orders you want to SHIP (post-authorize). Then, check the box for the specific order or orders you are shipping. Now, click the "Work with Selected Orders" button at the bottom of the page. Now a page will be displayed to allow you to ship the selected orders. Shipping the orders will trigger a post-authorization request with the bank.

Post-authorization

1. In your PHP program create a hash table containing the values you wish to pass to the BillOrders function. Note that the hash table you pass will contain another hash table of orders to post-authorize with the order IDs that were captured during the pre-authorization.
2. Call the BillOrders function and pass the hash table as a parameter to the function.

3. A hash table will be returned containing the result of the transaction.

4. Look at 'statusCode' field returned in the hash table. If the call was successful, 'statusCode' will be 1. If the call was unsuccessful, statusCode will be 0. If 'statusCode' is 0, look at 'statusMessage' to determine the reason.

Sale

1. In your PHP program create a hash table containing the values you wish to pass to the ApproveSale function.

2. Call the ApproveSale function and pass the hash table as a parameter to the function.

3. A hash table will be returned containing the result of the transaction.

4. Look at 'statusCode' field returned in the hash table. If the call was successful, 'statusCode' will be 1. If the call was unsuccessful, 'statusCode' will be 0. If 'statusCode' is 0, look at 'statusMessage' to determine the reason.

How It All Comes Together

The transaction process is nearly identical in all of the transaction examples above. While each transaction type performs a different action on the LinkPoint Secure Payment Gateway, the way the transaction is run on your end is relatively identical. The primary difference is the fields you are required to pass to LPHP.

1. Your PHP program creates a hash table containing transaction information. Then, it calls the appropriate LPHP function, for example, ApproveSale.

2. The names passed to the ApproveSale function are translated into names expected by the 'lbin' program. For example, the hash entry 'storename' is converted into 'config' file. This step is performed automatically when you call the ApproveSale function being used for this example.

3. The translated hash table is written to a temporary data file. This step is also performed automatically when you call the ApproveSale function. The temporary data file is given a unique name to help ensure that the filename is not predictable. As with all online financial transactions, security of the hosting system is critical. This temporary file directory should be a directory that is secure and not accessible to unauthorized persons.

4. The LinkPoint Binary Executable is run by the LPHP module. The execution parameters are handled automatically by LPHP, in the format **LBIN FILE [filename]**.

REQUIRED PARAMETERS

The following parameters are required for all transactions:

host
This parameter is the LinkPoint Secure Payment Gateway (LSPG) hostname. You should have received a "Welcome Letter" which contains your password and also will provide your hostname. Generally, your hostname is either staging.linkpt.net or secure.linkpt.net.The staging server is used to set up test store which will not result in gateway transaction fees. The staging server does not have a connection to the banking system. Transactions sent to the staging server will not be settled. Thus, no money is genuinely charged to the credit card and no money will be transferred to a merchant account. On staging, Credit Card numbers and expiration dates are checked for algorithmic validity only and do not indicate the card is good. The secure server is connected to the banking system. Transactions sent to secure.linkpt.net (the secure server) result in gateway transaction fees.

 WARNING: Do not use an IP address for 'host. Rather, use the fully qualified domain name.

keyfile
This is the name and path of the merchant security certificate. The welcome letter contains your digital certificate. The lines for the certificate should be cut from the welcome letter, saved, and pasted into another file. Save this certificate in a file on disk. The typical name for this file is store number and '.pem' i.e. 000000.pem (assuming the storename is 000000).

storename
This is the store number assigned to your merchant account.

port
Unless instructed otherwise, this should be set to 1139.

Other Parameters for Use in Various Transactions:

oid
order ID - If not set, the LSPG will assume a unique number for you. If you wish a specific number to be used, set this field. NOTE: This MUST be unique.

debuglevel
Set this to '2' to output debugging information from the LinkPoint Binary Executable.

addrnum
This is the NUMERIC portion of the street address, only. This parameter is used for the Address Verification System (AVS). The return code from the gateway will indicate if this number matches the numeric portion of the billing street address. This should be used to reduce fraud.

email
Customer email address

phone
Customer phone number

fax
Customer fax number

refer
Set this to indicate where this transaction was referred from

Shipping
Total cost of shipping

tax
Total sales tax amount

vattax
Total VAT tax (primary used in Europe)

subtotal
Subtotal of transaction

chargetotal
Transaction total

cardnumber
Credit card number

expmonth
Credit card expiration month (two digits are required)

expyear
Credit card expiration year (two digits are required)

bname
Billing name

bcompany
Billing company

baddr1
Billing address line 1

baddr2
Billing address line 2

bcity
Billing city

bstate
Billing state

bzip
Billing zip

bcountry
Billing country

sname
Shipping name

scompany
Shipping company

saddr1
Shipping address line 1

saddr2
Shipping address line 2

scity
Shipping city

sstate
Shipping state

szip
Shipping zip

scountry
Shipping country

comments
Comments submitted for this transaction

ip
Customer IP address

track
For retail transactions. This field contains the information read from the magnetic stripe on the customer's credit card.

result
This field is primarily set for test transactions. Setting this to "GOOD" will result in the gateway indicating the card was approved, without checking with the bank. Note that expiration date and other such checks will still be done. Setting this to "DUPLICATE" will cause the gateway to indicate this is a duplicate transaction. Setting this to "DECLINE" will result in the gateway responding with a decline message. Set this to "LIVE" or do not set it for live transactions.

Please remember that for transactions to genuinely be live, they must be run on secure.linkpt.net. Also remember that your store is only valid for a given server. If your store is on the staging server, you must request a store on the secure server.

cvmvalue
Customer's three digit CVM from the back of the credit card. This field is used to help with fraud prevention.
NOTE: Set 'cvmindicator' to indicate presence of this field.

cvmindicator
Set this field to indicate whether you are providing CVM (CVC2/CVV2/CVID).

CVM_NotProvided
No CVM check requested.

CVM_Provided
The CVM value is in the 'cvmvalue' field.

CVM_Illegible
Can not read the CVM on the card.

CVM_Not_Present
No CVM on the back of the card.

mototransaction
Set this field to one of the following values to indicate what type of transaction this is:

ECI_TRANSACTION
This indicates this is an Electronic Commerce transaction.

MOTO_TRANSACTION
This indicates that this is a Mail Order/Telephone Order transaction.

RETAIL_TRANSACTION
Use this to indicate that this is a RETAIL transaction.
NOTE: The customer must be present, with the credit card, to qualify as a retail transaction. Please see your merchant agreement.

terminaltype
Set this field for RETAIL transactions to indicate what type of device is requesting the charge.

TTYPE_UNSPECIFIED
No terminal type to specify.

TTYPE_STANDALONE
Standalone workstation.

TTYPE_POS
Point of Sale System (cash register).

TTYPE_UNATTENDED
Unattended devices such as a kiosk.

recurringtransaction
Set this field for recurring transactions. If this field is not specified, NON RECURRING will be the default.

NON_RECURRING_TRANSACTION
Not a recurring transaction.

RECURRING_TRANSACTION
Used for periodic transactions.

INSTALLATION

Pre-Installation System Requirements

- Windows NT or a UNIX-based operating system
- PHP
- LinkPoint-assigned electronic certificate (.pem file)
-

Installing PHP

If PHP is not installed on your server, you can download this software from the following site and follow the installation instructions: http://www.php.net.

Installing LPHP

Installation of LPHP consists of copying files to their appropriate directories. Follow the steps below. If you have installation problems, e-mail or call us for assistance. (See "Technical Support.")

1. After you receive the LPHP.zip (for NT) or LPHP.tar, you need to unzip or untar the file and store all the extracted files into a directory. You can call this directory any name you want, but for the purpose of this manual, we use \LPHP for NT or /LPHP for UNIX-based systems.

2. Copy the certificate (file with the extension .pem provided to you when your account is set up with LinkPoint) to the same directory. At this point, the directory \LPHP or /LPHP should contain the following files:
    Note: The LPHP Wrapper shares the LBIN executable file with the LinkPoint PERL Wrapper.

3. For UNIX, make the LPHP binary file executable with the following commands:

- cd   /LPHP
- chmod   +x lbin

4. The installation is completed. You may want to see if the sample program works by updating and running the input data in lphp.php3. (See "Sample Script.")

5. You do not have to store the previous files in the same directory as long as you specify the path to these files in the calling program. (See "Product Integration.")

PRODUCT INTEGRATION

To integrate the LPHP and the LinkPoint Select API with your PHP software, you basically need only to call directly the functions provided by LPHP from your main module. The sample scripts provide examples of PHP programs, which call functions in the LPHP module. You can modify and use these sample scripts as an example to integrate LPHP into your product.

Note: If you store the LPHP files in different directories, do not forget to specify the path in the calling program. Following are parameters in the sample scripts to be updated if you change their directory locations:

- ```
  $this -> lpapi="c:\LPHP\lbin.exe"
  ```

  The input data "./lbin" should be updated to the new path if you store the executable file lbin.exe (NT) or lbin (UNIX) in a different directory.

- ```
  $myorder["keyfile"] = "\\lphp_test\\pem\\000033.pem"
  ```

  The input data "\\lphp_test\\pem\\000033.pem" should reflect the location where the certificate is stored.

SAMPLE SCRIPTS

LPHP comes with numerous pre-made working samples. Additionally, we provide here two additional sample scripts that will assist in the initial setup of the proper environment.

This simple test script will determine if your PHP server environment is set up correctly. It can be called directly from a web browser if you save it as a .php file (or. php3). The output or this little script will unmistakably indicate whether PHP is working on your server.

```php
<?php
 phpinfo();
 ?>
```

Older installations of PHP often require the file extension "php3" whereas in the newer version of PHP4, file extensions are usually just ".php", depending on your server setup.

This next script will run a transaction. It is not intended to be used for actual transactions, but instead should be used as an aid in setting up the proper environment. Once this test script is run successfully, the other sample files provided can be used as the basis for creating working customized scripts.

This script should be saved as a .php file and then called from a browser.

```php
<?php include"lpphp.php3";
$mylpphp=new lpphp;

$myorder["host"]="staging.linkpt.net";
$myorder["port"]="1139";
$myorder["storename"]="000000";         // your storename here
$myorder["keyfile"]="./00000.pem";    // location of key file on your
server
$myorder["result"] = "GOOD";

$myorder["cardNumber"]="4111-1111-1111-1111";
$myorder["cardExpMonth"]="01";
$myorder["cardExpYear"]="03";
$myorder["amount"]="9.99";

$myresult=$mylpphp->ApproveSale($myorder);  // send transaction

if ($myresult[statusCode] == 0)                // transaction failed,
print the reason
     print "ApproveSale: statusMessage:
$myresult[statusMessage]<br>\n";

else {                                         // success
     print "<pre>\n";
     print "ApproveSale: statusCode: $myresult[statusCode]\n";
     print "ApproveSale: AVSCode: $myresult[AVSCode]\n";
     print "ApproveSale: trackingID: $myresult[trackingID]\n";
```

```
        print "ApproveSale: orderID: $myresult[orderID]\n";
        print "</pre>\n";
        }
?>
```

One other file will need to be edited before a transaction can be successfully processed. At line #19 in the file lpphp.php3 you will need to indicate the correct path to the placement of the LBIN executable file on your server.

On UNIX systems, this is often the "cgi-bin" directory:

```
        $this->lpapi="../cgi-bin/lbin";
```

On MS NT IIS machines this will usually be the "scripts" directory.

```
        $this->lpapi="..\\scripts\\lbin.exe";
or      $this->lpapi="c:\\inetpub\\scripts\\lbin.exe";
```

In most cases, this should be the only editing required in the file lpphp.php3.

Note: Credit card numbers can contain dashes or spaces. The allowed formats are shown in the following examples.

- 4111-1111-1111-1111
- 4111 1111 1111 1111
- 4111111111111111

APPENDIX A

Deliverables

After your purchase of LPERL, a file containing all deliverables will be sent to you by e-mail.

The name of the file is LPERLxxx ("xxx" indicates the version of the deliverable).

The LPERLxxx file is in one of the following formats:

- Windows NT platforms—a zip file will be delivered

- UNIX-based platforms—a tar file will be delivered

The contents of the LPERLxxx file include

- **LPerl.pm –** the PERL module, which includes the LinkPoint Select API library and an interface between your Perl program and the 'lbin' executable program.

- **lbin –** the executable file which includes the LinkPoint Select API library

- This manual

 In addition, the LPERLxxx file includes this manual and the following sample scripts:

- lptest_ApproveSale_VoidSale_card.pl

- lptest_ApproveSale_VoidSale_track.pl

- lptest_BillOrder.pl

- lptest_CalculateShipping.pl

- lptest_CalculateTax.pl

- lptest_minimum.pl

- lptest_PeriodicBilling.pl

- lptest_ReturnCard.pl

- lptest_Shipping_Tax_ApproveSale.pl

- lptest_VirtualCheck.pl

Purchasing Contact Information

Web site: http://www.linkpoint.com/

E-mail: lperlsupport@linkpoint.com

Appendix B

Technical Support

For technical support on this product, please visit our web site or use the contact information listed below.

Web site: http://www.linkpoint.com/support/

E-mail: lperlsupport@linkpoint.com

Phone: (888) 477-3611