



- An Acculynk Solution -

# LeapLock Guide

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# Document Control

## Revision History

Date	Author	Version	Change Summary
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## Overview

The PayLeap LeapLock™ Form is the easiest way to integrate SSL-encrypted credit card payments into your web site, and can be completed with a few simple steps.

The following sections describe how to configure the LeapLock™ Form. The LeapLock™ form is completely API driven.

## Requirements

In order to integrate using the LeapLock™ Form, you must meet the following requirements:

- You must have a PayLeap Payment Gateway account.
- Your website must be capable of performing an HTML POST to request the LeapLock™ Form.
- Your website must have server-side scripting or CGI capabilities such as ASP Classic, Cold Fusion, PHP or Perl.
- Your website must be able to store payment gateway account data (API Login ID and Transaction Key) securely.

## Configuring the LeapLock Form

PayLeap provides merchants the ability to configure the fields that appear on a LeapLock form and process a response once a transaction has been processed.

## Request URL

Merchants will post requests to the following URLs in Testing and Production environments.

**TABLE . LEAPLOCK FORM LOCATIONS**

Test	Production
<a href="https://uat.payleap.com/plcheckout.aspx">https://uat.payleap.com/plcheckout.aspx</a>	<a href="https://secure1.payleap.com/plcheckout.aspx">https://secure1.payleap.com/plcheckout.aspx</a>

## Request Parameters

Table and Table in this section list and describe the LeapLock form required and optional fields.

**TABLE . LEAPLOCK FORM MINIMUM REQUIREMENTS**

Field Name	Example	Min Chars	Max Chars	Description
loginid				Your PayLeap API login ID.
amount	500000.99			The dollar amount of the transaction in DDDDDDDDDD.CC format.
sequence				Unique sequence number identifying the transaction generated by your application.
timestamp	01/01/1999:08:22:47			Date and time the transaction is posted in mm/dd/yyyy:HH:mm:ss format.
fingerprint				Authentication fingerprint calculated by your application. To generate the fingerprint value: <ol style="list-style-type: none"> <li>1. Concatenate the following values in order: loginid + amount + sequence + timestamp</li> <li>2. Generate a hash value from the resulting string using the HMAC MD5 algorithm with your PayLeap API transaction key as the hash key.</li> </ol>

**TABLE . LEAPLOCK FORM ADDITIONAL FIELDS**

Field Name	Example	Min Char s	Max Char s	Description
firstname	John		50	The customer's first name.
lastname	Doe		50	The customer's last name.
email	john@email.com		50	The customer's email address.
phone	111-222-3333		50	The customer's phone number
address1	123 First Street SW		50	The first line of the customer's street address.
address2	Apt. C5		50	The second line of the customer's street address.
city	Atlanta		50	The customer's city.
state	GA		50	The customer's state.
country	US		50	The customer's country.
zip	30303		50	The customer's ZIP/postal code.
invoicenumber				The invoice number for the transaction.
ponumber				The purchase order number for the transaction.
readonlyorderdetail	T or F			Indicates whether the order detail fields on the payment form are read only. Valid values are: T - order detail fields are read only F - order detail fields can be edited on the form
styleSheetURL				Specify a stylesheet hosted on your server to customize the payment form.
hideAddress	T or F			Display the address fields on the form
includeMerchantName	T or F			Display business name on file on the payment form
emailReceipt	T or F			Email customer a transaction receipt
isRelayResponse	T or F			Enable relay response
RelayResponseURL				Set the URL where we will send a response to. Note this is a script hosted on your server.
includePO	T or F			Include Purchase Order field on your form

Field Name	Example	Min Char s	Max Char s	Description
includeInvoice	T or F			Include Invoice number field on your form
returnPageText				Specify text displayed when using PayLeap's default receipt page
returnPageURL				Specify URL your customer is sent to when clicking on returnPageText
customField1 (1 - 20)				Pass a custom field value pair that will be returned in the response
customerTokenization	T or F			Returns a unique token per transaction which can be used to later bill the customer without requiring the customer's sensitive billing information. Note: You must use the /ProcessCreditCard or /ProcessCheck method in merchantservices.svc API to process a token transaction.

## Response Values

Transaction response information is posted back to the RelayResponseURL value sent in the request. Refer to Table for the fields posted back to the relay response URL.

**TABLE . RELAY RESPONSE FIELDS**

Field	Description
success	Indicates if the transaction was successful. Valid values are: <b>T</b> or <b>F</b> If success= <b>T</b> ResponseCode=0 returned.
error	If success= <b>F</b> , the error message is returned in ResponseCode 1 or 2
ResponseCode	<b>0 - Approved</b> <b>1 - Declined</b> ResponseCode=1 will display error=Declined. ResponseCode=1 will also display all other errors excluding Cancelled. It is recommended you display the response returned by PayLeap as the response message may vary. <b>2 - Cancelled</b> If a user clicks the Cancel button on the Secure Checkout Form ResponseCode=2 will be returned.

Field	Description
pnref	The reference number identifying the transaction on the PayLeap gateway. This number is used for adjustments, voids, and returns.
date	The date the transaction was processed.
time	The time the transaction was processed.
authcode	The authorization code for the transaction.
card	The last four digits of the credit card number used for the transaction.
expdate	The expiration date of the credit card used for the transaction in MMY format.
amount	The dollar amount of the transaction in DDDDDDDDD.CC format.
invoicenum	The invoice number for the transaction.
ponumber	The purchase order number for the transaction.
firstname	The customer's first name.
lastname	The customer's last name.
email	The customer's email address.
phone	The customer's phone number.
address1	The first line of the customer's street address.
address2	The second line of the customer's street address.
city	The customer's city.
country	The customer's country.
state	The customer's state.
zip	The customer's ZIP/postal code.
fingerprint	The authentication fingerprint calculated by your application and submitted in the Secure Checkout Form request.
TokenNumber	The token number returned in the response.

## Styling the LeapLock Form

To maintain stylistic consistency, merchants may specify a stylesheet hosted on their server in the styleSheetURL field to apply to the LeapLock form. It is recommended this file be hosted in a SSL environment to avoid browser errors switching between secure and insecure connections.

The stylesheet will customize forms located in the URLs listed in Table .

PayLeap provides an example of the CSS file located below. You can save this file locally and customize it to your needs.

<https://uat.payleap.com/CSS/Plcheckoutstyle.css>





## Sample Code

This section provides code samples for a LeapLock Form request and response.

### Request

The following is a PHP example creating a form to post the LeapLock™ Form request:

```

<html>
<body>
<?php
//Retrieve API username from PayLeap account
$loginid      = "username_API";
//Retrieve Transaction Key from PayLeap account
$Transactionkey = "transactionkey";
$amount       = "1.00";
$label        = "Continue";

if (array_key_exists("amount",$_REQUEST))
    { $amount = $_REQUEST["amount"]; }

// Random sequence number generated
$sequence     = rand(1, 1000);
// Timestamp generated
$timeStamp    = time();

if( phpversion() >= '5.1.2' )
    { $fingerprint = hash_hmac("md5", $loginid . "" . $amount . "" . $sequence . "" .
$timeStamp . "", $Transactionkey); }
    else
    { $fingerprint = bin2hex(mhash(MHASH_MD5, $loginid . "" . $amount . "" . $sequence . "" .
$timeStamp . "", $Transactionkey)); }
?>
<span class="total">Total: <?php echo $amount; ?></span> <br /><br >
<!-- For production use https://uat.payleap.com/plcheckout.aspx -->
<form method="post" action='https://uat.payleap.com/plcheckout.aspx' id='continue' class="">
<input type='hidden' name='loginid' value='<?php echo $loginid; ?>' />
<input type='hidden' name='amount' value='<?php echo $amount; ?>' />
<input type='hidden' name='sequence' value='<?php echo $sequence; ?>' />
<input type='hidden' name='timestamp' value='<?php echo $timeStamp; ?>' />
<input type='hidden' name='fingerprint' value='<?php echo $fingerprint; ?>' />
<input type='hidden' name='email' value='test@test.com' />
<input type='hidden' name='customField1' value='customField1 test' />
<input type='hidden' name='firstname' value='John' />
<input type='hidden' name='lastname' value='Doe' />
<input type='hidden' name='phone' value='555-555-1212' />
<input type='hidden' name='address1' value='123 street' />
<input type='hidden' name='address2' value='123 street continued' />
<input type='hidden' name='city' value='Seattle' />
<input type='hidden' name='state' value='WA' />
<input type='hidden' name='country' value='USA' />
<input type='hidden' name='zip' value='98498' />
<input type='hidden' name='invoicenumber' value='abc123' />
<input type='hidden' name='ponumber' value='123' />
<!-- T or F to specify if form is read only -->

```

```

<input type='hidden' name='readonlyorderdetail' value='F' />
<!-- Sample Stylesheet hosted on your server. Recommend it is hosted with SSL to avoid browser
errors -->
<!-- Download the Stylesheet below as a sample -->
<input type='hidden' name='styleSheetURL'
value="https://uat.payleap.com/CSS/PLCheckoutStyle.css" />
<input type='hidden' name='isRelayResponse' value='T' />
<input type='hidden' name='hideAddress' value='F' />
<!-- Create a token that is returned in the response. The token can be used with our SCM API to
bill a customer in the future
without storing sensitive billing information. -->
<input type='hidden' name='customerTokenization' value='T' />
<!-- Specify a URL where PayLeap will return the response -->
<input type='hidden' name='relayResponseURL' value='http://www.yourdomain/relay-response.php' />
<input type="submit" value="Continue">
</form>
</body>
</html>

```

## Response

The following is a PHP example which parses the response sent back to the script hosted on your server:

```

<html>
<body>
<?php
#Retrieve response from PayLeap
$Success      = trim($_POST["success"]);
$error        = trim($_POST["error"]);
$PNRef        = trim($_POST["pnref"]);
$AuthCode     = trim($_POST["authcode"]);
$Amount       = trim($_POST["amount"]);
$FirstName    = trim($_POST["firstname"]);
$LastName     = trim($_POST["lastname"]);
$InvoiceNumber = trim($_POST["invoicenumber"]);
$TokenNumber  = trim($_POST["tokenNumber"]);
?>

<?php
#Display transaction status
if ($Success === "T")
{
?>
Transaction Approved
<br>
<?php
}
else if ($Error === "Payment Canceled")
{
?>
Transaction Canceled
<?php
}

```

```

else if ($Success === "F")
{
?>
Transaction Failed

<br />
<?php
}
?>

First Name:
<?php { echo $FirstName; } ?>
<br />
Last Name:
<?php { echo $LastName; } ?>
<br />
Transaction ID:
<?php { echo $PNRef; } ?>
<br />
Authorization Code:
<?php { echo $AuthCode; } ?>
<br />
Amount:
<?php { echo $Amount; } ?>
<br />
Invoice Number:
<?php { echo $InvoiceNumber; } ?>
<br />
Token:
<?php { echo $TokenNumber; } ?>
<br />
Raw Response:
<br />
<?php
/* Raw response from PayLeap */
print_r($_POST);
?>
</body>
</html>

```

## Test Cards

The card information listed in Table may be used for test purposes.

**TABLE . TEST CARD DATA**

Card Type	Card Number	Expiration Date
Visa	4111111111111111 1	Any date that has not expired
MasterCard	5431111111111111 1	Any date that has not expired
American Express	3411111111111111	Any date that has not expired

<b>Card Type</b>	<b>Card Number</b>	<b>Expiration Date</b>
Discover	601160116011661 1	Any date that has not expired