



## PesaPal Integration - PHP

### 1. Include

Oauth.php – Class that helps in constructing the Oauth Request

```
<?php
include_once('OAuth.php');
?>
```

### 2. Assign Variables

1. token and params – null
2. consumer\_key – merchant key issued by PesaPal to the merchant
3. consumer\_secret – merchant secret issued by PesaPal to the merchant
4. signature\_method ( leave as default ) – new OAuthSignatureMethod\_HMAC\_SHA1();
5. iframelink – the link that is passed to the iframe pointing to the PesaPal server

```
<?php
$token = $params = NULL;
$consumer_key = 'Your PesaPal Merchant Consumer Key'; //Register a merchant account on
//demo.pesapal.com and use the merchant key for testing.
//When you are ready to go live make sure you change the key to the live
account //registered on www.pesapal.com!

$consumer_secret = 'Your PesaPal Merchant Consumer Secret'; // Use the secret from your
// test account on demo.pesapal.com. When you are ready to go live make sure
you //change the secret to the live account registered on www.pesapal.com!

$signature_method = new OAuthSignatureMethod_HMAC_SHA1();
$iframelink = 'http://demo.pesapal.com/api/PostPesapalDirectOrderV4'; //change to
//https://www.pesapal.com/API/PostPesapalDirectOrderV4 when you are ready to go live!
?>
```

### 3. Assign Form Details

Assign form details passed to pesapal-iframe.php from shopping-cart-form.php to the specified variables.

```
<?php
//get form details
$amount = $_POST['amount'];
$amount = number_format($amount, 2); //format amount to 2 decimal places
$desc = $_POST['description'];
$type = $_POST['type']; //default value = MERCHANT
$reference = $_POST['reference']; //unique order id of the transaction, generated
$first_name = $_POST['first_name']; //optional by merchant
$last_name = $_POST['last_name']; //optional
$email = $_POST['email'];

//ONE of email or phonenumber is required

$phonenumber = "";
?>
```

### 4. Define the callback\_url



This is the full url pointing to the page the iframe redirects to after processing the order on pesapal.com

## 5. Construct the post\_xml variable

The format is standard so no editing is required. Encode the variable using htmlentities.

```
<?php
$callback_url          = 'http://www.test.com/redirect.php'; //redirect url, the page that will handle
the response from pesapal.

$post_xml = "<?xml version='1.0' encoding='utf-8'><PesapalDirectOrderInfo xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance' xmlns:xsd='http://www.w3.org/2001/XMLSchema'
Amount='\".$amount.\" Description='\".$desc.\" Type='\".$type.\"
Reference='\".$reference.\" FirstName='\".$first_name.\"
LastName='\".$last_name.\" Email='\".$email.\"
PhoneNumber='\".$phonenumber.\" xmlns='http://www.pesapal.com' />";
$post_xml = htmlentities($post_xml);

?>
```

## 6. Construct the OAuth Request url

Using the Oauth class included construct the oauth request url using the parameters declared above (the format is standard so no editing is required).

```
<?php
$consumer              = new OAuthConsumer($consumer_key, $consumer_secret);
//post transaction to pesapal

$iframe_src = OAuthRequest::from_consumer_and_token($consumer, $token,
"GET", $framelink, $params);
$iframe_src->set_parameter("oauth_callback", $callback_url);
$iframe_src->set_parameter("pesapal_request_data", $post_xml);
$iframe_src->sign_request($signature_method, $consumer,
$token); ?>
```

## 7. Display the iframe

Pass \$iframe\_src as the iframe's src.

```
<iframe src="<?php echo $iframe_src;?>" width="100%"
height="620px" scrolling="auto" frameBorder="0">
<p>Unable to load the payment
page</p> </iframe>
```

## 8. Store

Once the payment process has been completed by the user, PesaPal will redirect to your site using the url you assigned to \$callback\_url, along with the following query string parameters:

1. pesapal\_merchant\_reference – this is the same as \$reference (unique order id) that you posted to PesaPal
2. pesapal\_transaction\_tracking\_id – this is a unique id for the transaction on PesaPal that you can use to track the status of the transaction later

Store the pesapal\_transaction\_tracking\_id in your database against the order.



```
<?php
$reference = null;
$pesapal_tracking_id = null;

if(isset($_GET['pesapal_merchant_reference']))
    $reference = $_GET['pesapal_merchant_reference'];

if(isset($_GET['pesapal_transaction_tracking_id']))
    $pesapal_tracking_id = $_GET['pesapal_transaction_tracking_id'];

//store $pesapal_tracking_id in your database against the order with orderid = $reference
...
?>
```

## 9. Listen to IPN and Query for Status

Once a transaction has been posted to PesaPal, you can listen for Instant Payment Notifications on a URL on your site (see here for details).

Below is sample code that listens to notifications from PesaPal and consequently queries for the transaction status.

```
<?php
include_once('oauth.php');
$consumer_key="xxxxxxxxxxxxxxxxx";//Register a merchant account on
//demo.pesapal.com and use the merchant key for testing.
//When you are ready to go live make sure you change the key to the live
account//registered on www.pesapal.com!

$consumer_secret="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx";// Use the secret from your test
//account on demo.pesapal.com. When you are ready to go live make sure
you //change the secret to the live account registered on www.pesapal.com!

$statusrequestAPI = 'https://demo.pesapal.com/api/querypaymentstatus';//change to
//https://www.pesapal.com/api/querypaymentstatus' when you are ready to go live!

// Parameters sent to you by PesaPal IPN
$pesapalNotification =$_GET['pesapal_notification_type'];
$pesapalTrackingId =$_GET['pesapal_transaction_tracking_id'];
$pesapal_merchant_reference = $_GET['pesapal_merchant_reference'];

if($pesapalNotification=="CHANGE" && $pesapalTrackingId!="")
{
    $token = $params = NULL;
    $consumer = new OAuthConsumer($consumer_key, $consumer_secret);

    //get transaction status
    $request_status = OAuthRequest::from_consumer_and_token($consumer,
    $token, "GET", $statusrequestAPI, $params);
    $request_status->set_parameter("pesapal_merchant_reference",
    $pesapal_merchant_reference);
    $request_status-
    >set_parameter("pesapal_transaction_tracking_id",$pesapalTrackingId);
    $request_status->sign_request($this->signature_method, $consumer, $token);

    $ch = curl_init();
```



```
curl_setopt($ch,CURLOPT_URL, $request_status);
curl_setopt($ch,CURLOPT_RETURNTRANSFER, 1);
curl_setopt($ch,CURLOPT_HEADER, 1);
curl_setopt($ch,CURLOPT_SSL_VERIFYPEER, 0);
if(defined('CURL_PROXY_REQUIRED')) if (CURL_PROXY_REQUIRED == 'True')
{
    $proxy_tunnel_flag = (defined('CURL_PROXY_TUNNEL_FLAG') &&
strtoupper(CURL_PROXY_TUNNEL_FLAG) == 'FALSE') ? false : true;
    curl_setopt ($ch, CURLOPT_HTTPPROXYTUNNEL, $proxy_tunnel_flag);
    curl_setopt ($ch, CURLOPT_PROXYTYPE, CURLPROXY_HTTP); curl_setopt
($ch, CURLOPT_PROXY, CURL_PROXY_SERVER_DETAILS);
}

$response = curl_exec($ch);

$header_size = curl_getinfo($ch, CURLINFO_HEADER_SIZE);
$header = substr($response, 0, $header_size - 4);
$headerArray = explode("\r\n\r\n", $header); $header
= $headerArray[count($headerArray) - 1];

//transaction status
$elements = preg_split("/=/",substr($response,
$header_size)); $status = $elements[1];

curl_close ($ch);

//UPDATE YOUR DB TABLE WITH NEW STATUS FOR TRANSACTION WITH
pesapal_transaction_tracking_id $pesapalTrackingId

if(DB_UPDATE_IS_SUCCESSFUL)
{
    $resp="pesapal_notification_type=$pesapalNotification&pesapal_transaction_tra
cking_id=$pesapalTrackingId&pesapal_merchant_reference=$pesapal_merchant_refe
rence";
    ob_start();
    echo $resp;
    ob_flush();
    exit;
}
}
?>
```