

Sample Paypal Exchange

Sample (php) Paypal Form Submittal

```
echo "<form action=\"https://www.paypal.com/cgi-bin/webscr\" method=\"post\">";
echo "<input type=\"hidden\" name=\"cmd\" value=\"_s-xclick\">";
echo "<input type=\"hidden\" name=\"hosted_button_id\" value=\"1234567\">";

if ( isset($_POST['userid'], $_POST['password']) ) {
    echo "<input type=\"hidden\" name=\"custom\" value=\"\" . $_POST['userid'] . \",\" . $_POST['password'] . \"\">";
}

echo "<table>";
echo "<tr><td><input type=\"hidden\" name=\"on0\" value=\"Membership\">
    <h2>Membership via PayPal</h2></td></tr><tr><td><select name=\"os0\">";
echo "<option value=\"Join for 30 days\">Join for 30 days $5.00";
echo "</select> </td></tr>";
echo "</table>";
echo "<input type=\"hidden\" name=\"currency_code\" value=\"USD\">";
echo "<input type=\"image\" src=\"https://www.paypal.com/en_US/i/btn/btn_buynowCC_LG.gif\"
    border=\"0\" name=\"submit\" alt=\"PayPal - The safer, easier way to pay online!\">";
echo "<img alt=\"\" border=\"0\" src=\"https://www.paypal.com/en_US/i/scr/pixel.gif\" width=\"1\" height=\"1\">";
echo "</form>";
```

Sample Paypal Response

Received into a (Paypal invoked) cgi script:

```
# 2) Params passed in the PayPal Notify to this script (notify.cgi):
# -----
# mc_gross = 0.50
# protection_eligibility = Ineligible
# payer_id = ABCD1234
# tax = 0.00
# payment_date = 20:37:01 Sep 01, 2009 PDT
# payment_status = Completed
# charset = windows-1252
# first_name = Kenneth
# option_selection1 = membership
# mc_fee = 0.31
# notify_version = 2.8
# custom = <userid,passwd>
# payer_status = unverified
# business = kfreed@verizon.net
# quantity = 1
# verify_sign = QRSTUV-zLx7AtfPa-etrhyTVACBUnodHj1EdEkki10DD103OXTfy
# payer_email = kfreed@verizon.net
# option_name1 = Membership
# memo = test6
# txn_id = 12ABCD137
# payment_type = instant
# btn_id = 123456
# last_name = Freed
# receiver_email = kfreed@verizon.net
# payment_fee = 0.31
# shipping_discount = 0.00
# insurance_amount = 0.00
# receiver_id = 1234567
# txn_type = web_accept
# item_name = Membership
# discount = 0.0
# mc_currency = USD
# item_number = 1
# residence_country = US
```

```
#   handling_amount = 0.00
#   shipping_method = Default
#   transaction_subject = Membership
#   payment_gross = 0.50
#   shipping = 0.00
#   cmd = _notify-validate

# read post from PayPal system and add 'cmd'
read (STDIN, $query, $ENV{'CONTENT_LENGTH'});
$query .= '&cmd=_notify-validate';

#-----
# post back to PayPal system to validate
#-----
eval {
    $ua = new LWP::UserAgent;
    $req = new HTTP::Request 'POST', 'https://www.paypal.com/cgi-bin/webscr';
    $req->content_type('application/x-www-form-urlencoded');
    $req->content($query);
    $res = $ua->request($req);
};

# split posted variables into pairs
@pairs = split(/&/, $query);
$count = 0;
foreach $pair (@pairs) {
    ($name, $value) = split(/=/, $pair);
    $value =~ tr/+// ;
    $value =~ s/%([a-fA-F0-9][a-fA-F0-9])/pack("C", hex($1))/eg;
    $variable{$name} = $value;
    $count++;

    logmsg ("$name = $value");
}

# assign posted variables to local variables
eval { $custom = $variable{'custom'}; };
eval { $payment_status = $variable{'payment_status'}; };

eval {
    $first_name      = substr($variable{'first_name'} , 0,20);
    $last_name       = substr($variable{'last_name'}  , 0,20);
```

```
$payer_email      = substr($variable{'payer_email'}, 0,20);  
$option_selection1 = substr($variable{'option_selection1'},0,20);
```

... etc

```
if ($res->is_error) {  
    # HTTP error  
    logmsg ("ERROR HTTP error");  
  
} elseif ($res->content eq 'VERIFIED') {  
  
    # check the $payment_status=Completed  
    # check that $txn_id has not been previously processed  
    # check that $receiver_email is your Primary PayPal email  
    # check that $payment_amount/$payment_currency are correct  
    # process payment  
    logmsg "VERIFIED";  
  
    if ( $custom eq "" ) {  
        logmsg ("ERROR no custom information returned");  
    } elseif ( $payment_status eq "" ) {  
        logmsg ("ERROR no payment_status information returned");  
    } else {  
  
        # proceed with updating the database
```

... etc.

How PDT Works

When a customer pays you, PayPal sends the transaction ID of the payment to you by appending the transaction ID to a URL you specify in your account Profile. This information is sent via a HTTP GET as this name/value pair:

```
tx=transactionID
```

After you get the transaction ID, you post a FORM to PayPal that includes the transaction ID and your identity token, a string value that identifies your account to PayPal. There are instructions below that describe how to get your identity token. The form looks like this:

```
<form method=post action="https://www.paypal.com/cgi-bin/webscr">
<input type="hidden" name="cmd" value="_notify-synch">
<input type="hidden" name="tx" value="TransactionID">
<input type="hidden" name="at" value="YourIdentityToken">
<input type="submit" value="PDT">
</form>
```

In PayPal's reply to your post, the first line will be SUCCESS or FAIL. An example successful response looks like this (HTTP Header has been omitted):

```
SUCCESS
first_name=Jane+Doe
last_name=Smith
payment_status=Completed
payer_email=janedoesmith%40hotmail.com
payment_gross=3.99
mc_currency=USD
custom=For+the+purchase+of+the+rare+book+Green+Eggs+%26+Ham
...
```

If the response contains the word FAIL, make sure that the transaction ID token and identity token on your post are correct. PayPal was not able to validate the transaction.

For a list of all possible variables and values that PayPal can return to you, see the [IPN/PDT Variable Reference](#).

