

```
<?php class PaypalIPN
/**
* 09-12-12 MAJOR CODE CHANGES FOR CONSTANT DEFINING
*   Need constants  1) public function set_name:
*                   Defined in the running code,
*                   so must use "define" for constants.
*                   2) public function get_name:
*                   Get a 0 or 1 via if statements
*                   if (..) ){define two CONSTANTS}
*                   else {define two CONSTANTS the opposite
way}
*                   3) Now in main block of code call the
constant a new way:
*                   if ($res == self::VALID) {
*                   replaced with:
*                   if ($res == VALID) {
*                   by definition of "define" the
CONSTANT
*                   it is visible EVERYWHERE.
*                   4) Therefore, 1) Can define from parent
script = paypal_ipn.php
*                   variable: $test_local = 0;    // 1=
Local, 0 = Paypal Simulator
*                   5) Thus put these functions inside this
CLASS and
*                   just Below: const SANDBOX_VERIFY_URI =
*                   6) Now LOCAL and PP IPN SIMULATOR can be
managed with one
*                   variable on line approx line 65 of
paypal-ipn.php script!
*                   THE END OF DOC ON THIS TOPIC
*
* 09-27-22 - echo print lines have been left in for local
debugging & do not affect PP Simulator.
* 09-27-22 - DVA re-testing locally, tested Paypal Simulator.
Both Good!
* 09-26-22 - DVA re-testing locally
* 09-09-22 @8:31pm - DVA This is SIMULATOR USE - SANDBOX
* 09-09-22 5pm DVA -Starting IPN Simulator Testing
* Simulator URL Used = https://www.wpappsforthat.com/index.php/
paypal-ipn/
*   PP Said: IPN was sent and the handshake was verified.
*   DVA commenting out all ECHO STATEMENTS
* 09-09-22 DVA - Now writing to a text file. Still must add DB +
test various values for type of transaction
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**One major code change: I changed how CONSTANTS are defined, so the code can be dynamic, and keep all the user-defined variables in the paypal-ipn.php script. I hope this make the code more friendly from a testing / use standpoint. I do not know if my logic is solid (yet).**

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* 09-02-22 DVA - Testing down to line 107 and then seems to call
ipn (other script)
* 08-28-22 DVA - this code from here on github, it seems like
latest
* https://github.com/paypal/ipn-code-samples/blob/master/php/
PaypalIPN.php
* Maybe) Latest commit cb738c4 on Mar 16, 2018
* 09-03-22 -> https://stackoverflow.com/questions/14015144/
sample-php-code-to-integrate-paypal-ipn
*/
    // ***** //
{    // BEGIN ALL CLASS CODE //
    // ***** //

    /** @var bool Indicates if the sandbox endpoint is used. */
    //private $use_sandbox = false;
    private $use_sandbox = true;
    /** @var bool Indicates if the local certificates are used.
*/
    private $use_local_certs = true;

    /** Production Postback URL */
    // 09-7-22 think only one can be used
    //const VERIFY_URI = 'https://ipnpb.paypal.com/cgi-bin/
webscr';
    /** Sandbox Postback URL */
    const SANDBOX_VERIFY_URI = 'https://
ipnpb.sandbox.paypal.com/cgi-bin/webscr';

    /** Response from PayPal indicating validation was
successful */
    // 09-07-22 Per PP https://developer.paypal.com/api/nvp-
soap/ipn/IPNTesting/#local-development-testing
    // local testing flip-flop code logic, but I am
    // un-sure if do it here. So try here and see if
    // we get IPN-8b echoed. If so, may be going the right
direction.

    // 09-07-22 see URL and discussion below: https://
developer.paypal.com/api/nvp-soap/ipn/IPNTesting/ #local-
development-testing

    // GET VALUE FOR SIMULATOR USE - LOCAL or IPN SIMULATOR //

    // Properties
    public $test_location;

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0 | 1 // Methods - got passed setting from var = $test_local =

public function set_name($test_location) {
    $this->test_location = $test_location;
}

// Get value from above function to determine LOCAL or
IPN SIMULATOR test condition

function get_name ($test_location) {
echo "<br>IPN-1a1-> Inside get_name function: $this-
>test_location<br>";
    // LOCAL - DEFINE CONSTANTS //
    if ($this->test_location ==1) {
        define("VALID", "INVALID");
        define("INVALID", "VERIFIED");
        $sim_verified = "";
        $sim_invalid = "";
        $local_verified = "INVALID";
        $local_invalid = "VERIFIED";
echo "IPN-1a2-> Invalid = ";
echo INVALID;
echo "<br>IPN-1a3-> <b> <FONT COLOR='green'>RUN LOCAL TEST</
font></b><br>";
    }
    else {
        // PP SIMULATOR - DEFINE CONSTANTS //
echo "<br>IPN-1b1->USE SIMULATOR IPN TEST<br>";
        define("VALID", "VERIFIED");
        define("INVALID", "INVALID");
        $local_verified = "";
        $local_invalid = "";
        $sim_verified = "VERIFIED";
        $sim_invalid = "INVALID";
echo "IPN-1b2-> Valid = ";
echo VALID;
echo "<br>IPN-1b3-> <FONT COLOR='red'>USE SIMULATOR TEST</
font><br>";
    }
    return array ($local_verified, $local_invalid,
$sim_verified, $sim_invalid);
}

// ***** //

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        * Sets the IPN verification to sandbox mode (for use when
testing,
        * should not be enabled in production).
        * @return void
        */
public function useSandbox() {
    $this->use_sandbox = true;
}

/**
 * Sets curl to use php curl's built in certs (may be
required in some
 * environments).
 * @return void
 */
public function usePHPCerts() {
    // 09-04-22 Using certs from wpappsforthat.com
    $this->use_local_certs = false;
    //$this->use_local_certs = true;
    // if req'd using = "/home1/davelkwd/wpappsforthat.com/
wp-includes/certificates/ca-bundle.crt"
}

/**
 * Determine endpoint to post the verification data to.
 *
 * @return string
 */
public function getPaypalUri() {
    if ($this->use_sandbox) {
        return self::SANDBOX_VERIFY_URI;
    } else {
        return self::VERIFY_URI;
    }
}

/**
 * Verification Function
 * Sends the incoming post data back to PayPal using the
cURL library.
 *
 * @return bool
 * @throws Exception
 */

public function verifyIPN() {

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        //$this->test_location = $test_location;
        //die;
        if ( ! count($_POST)) {
            throw new Exception("Missing POST Data");
        }
echo "<br>IPN-1c1-> Valid = ";
echo VALID;
echo "<br>";
echo "IPN-1c2-> Invalid = ";
echo INVALID;
echo "<br>";

        $raw_post_data = file_get_contents('php://input'); //
09-02-22 Seems to want datae. Time to pass real data per example
from PP
        $raw_post_array = explode('&', $raw_post_data);
        $myPost = array();
        foreach ($raw_post_array as $keyval) {
            $keyval = explode('=', $keyval);
            if (count($keyval) == 2) {
                // Since we do not want the plus in the datetime
string to be encoded to a space, we manually encode it.
                if ($keyval[0] === 'payment_date') {
                    if (substr_count($keyval[1], '+') == 1) {
                        $keyval[1] = str_replace('+', '%2B',
$keyval[1]);
                    }
                }
                $myPost[$keyval[0]] = urldecode($keyval[1]);
            }
        }

        // Build the body of the verification post request,
adding the _notify-validate command.
        $req = 'cmd=_notify-validate';
        $logfile = "";

        // really need to save to DB here
        foreach ($myPost as $key => $value) {
            $req .= "&$key=$value";
        }

        // *****

        // 09-09-22 DVA REVIEW THIS PP CODE FOR CURL lines
https://developer.paypal.com/api/nvp-soap/ipn/ht-ipn/

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//          May have to page down a way.
//          Also review all that code (even though old)
it may have some interesting info to make better code.
// Post the data back to PayPal, using curl. Throw
exceptions if errors occur.
    $ch = curl_init($this->getPaypalUri());
    curl_setopt($ch, CURLOPT_HTTP_VERSION,
CURL_HTTP_VERSION_1_1);
    curl_setopt($ch, CURLOPT_POST, 1);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $req);
    //curl_setopt($ch, CURLOPT_SSLVERSION, 6);    // Not
used by AngellEYE PaypayIPN
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 1);
    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 2);

    // DVA: NOT EVEN SURE IF USED / REQUIRED: This is often
required if the server is missing a global cert bundle, or is
using an outdated one.
    //if ($this->use_local_certs = "true") { // 09-27-22 was
returning invalid result, so change to match above if correct
        if ($this->use_local_certs = "true") {
echo "IPN-1d1-> Use local cert = $this->use_local_certs<br>";
echo "IPN-1d2-> In local Cert if clause, and not sure why here!
<br>";
            curl_setopt($ch, CURLOPT_CAINFO, "/home1/davelkwd/
wpappsforthat.com/wp-includes/certificates/ca-bundle.crt");
        }

        curl_setopt($ch, CURLOPT_FORBID_REUSE, 1);
        curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 30);
        curl_setopt($ch, CURLOPT_HTTPHEADER, array(
            'User-Agent: PHP-IPN-Verification-Script',
            'Connection: Close',
        ));

        $res = curl_exec($ch);

echo "IPN-1e-> res = $res<br>";
    // 09-27-22 might want to re-write this if clause as can
be misleading.
    if ( ! ($res)) {
        $errno = curl_errno($ch);
        $errstr = curl_error($ch);
        curl_close($ch);
        throw new Exception("cURL error: [$errno] $errstr");
    }

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    }

    $info = curl_getinfo($ch);
    $http_code = $info['http_code'];

    if ($http_code != 200) {
        throw new Exception("PayPal responded with http code
$http_code");
    }

    curl_close($ch);

    // 09-06-22: LOCAL TEST HAS NO PP RETURNS
    // Check if PayPal verifies the IPN data, and if so,
    return true.

    if ($res == VALID) {
        $i = 0;
        $data_text=$txn_id=$txn_type = "";

        foreach ($_POST as $key => $value) {
            $i++;
            $data_text .= $key . "=" . $value . "\r\n";
            // Retrieve specific $key & $value
            if ($key == "txn_id") {
                $txn_id = $value;
            }
            if ($key == "txn_type") {
                $txn_type = $value;
            }
        }

        /* CUSTOM LOGFILE CREATION & WRITING TO IT – found
alternate */

        date_default_timezone_set("America/Chicago");
        list($year, $month, $day, $hour, $minute, $second,
$timezone) = explode(":", date("Y:m:d:H:i:s:T"));
        $timestamp = date_i18n('Ymd-His'); // Grab Time

        $write_to_db    = 1;
        $save_log_file  = 1; // Set this to true to save a
log file:
        $log_file_dir   = "/home1/davelkwd/
wpappsforthat.com/wp-content/uploads/paypal-ipn-logs/"; //
08-22-22 took (partially) from product.php log directory ($a)

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        $logfile          = $timestamp . ":" . "id-$txn_id" .
":". "txntyp-$txn_type" . ".txt";
        $filename          = "$log_file_dir" . "$logfile";

// WRITE TO TEXT FILE (temporary process) // //

if (($save_log_file == 1) && ($data_text)) {
    $fh = fopen($filename, 'w');
    fwrite($fh, $data_text);    //write data
    fclose($fh);                //close file
}

// ADD DATABASE SAVING HERE! //
/*
 * DB codes for types of transactions
 *   payment_status=Completed => New record
 *   payer_status=verified
 *   payment_status=
 */

if ($write_to_db) {
    // PENDING
}

// ***** //

//return true;
return array (1,$logfile,$data_text);
} else {
    // echo "IPN-Return below res=$res<br>";    // No
content for SIMULATOR VERSION
    return false;
}
}
} // END ALL CLASS CODE //

```