



Online Payment Switching Gateway Technical Specification (Merchant Host-Credit Card)

Version 1.0.0

(For Indonesia Only)

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1 Introduction

1.1 ePayment

This document describes the following functionalities of iPay88's Online Payment Switching Gateway (OPSG) system:

- ePayment : Multiple payment methods for merchant e-commerce website
- Reports : Online view transaction report

1.2 Objective

Enable iPay88's OPSG merchant to perform multiple payment types for their customers to make online purchase(s).

1.3 Pre-requisite of Merchant Integration

Follow the guidelines below before integration.

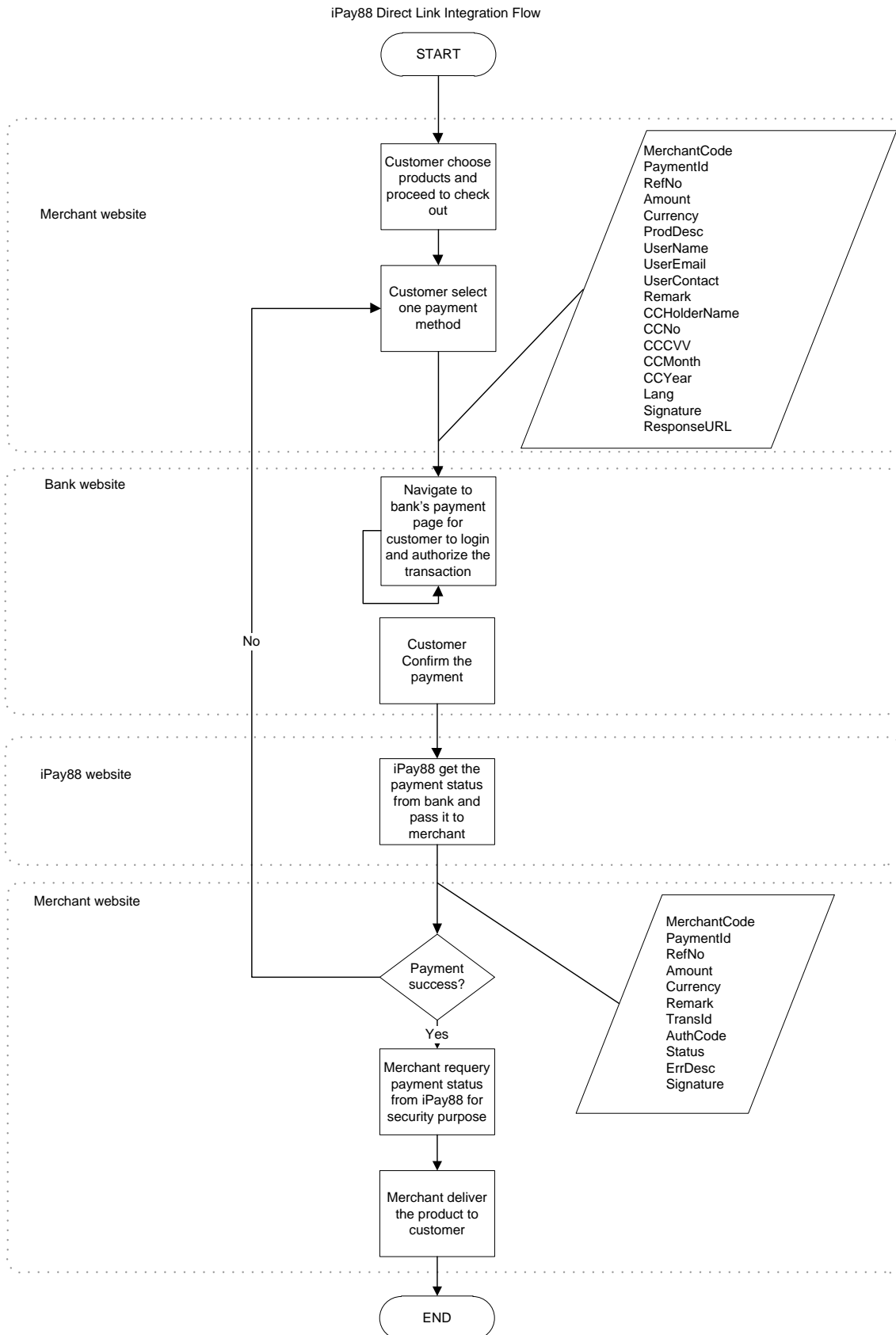
- **Merchant Code** and **Merchant Key** from iPay88 are required.
- Merchant to provide **Request URL** to iPay88 Support team.
- Registered Request URL must be either IP or domain based.
Note: **LocalHost** is not allowed.

Important Notice

- Test transaction must from registered **Request URL**.
- Test transaction with minimum amount **IDR 10000.00**.
- Test transaction limited to credit card **ONLY**.
- Response URL can be set in request page with **ResponseURL** field.
- Backend post URL can be set in request page with **BackendURL** field.
- Email notification is **NOT** guarantee by iPay88 OPSG as it is ISP dependant. (Refer section **4.3 Email Notification Disclaimer**)
Email notification should not use as action identifier by merchant instead use **Online Report** to check for payment status.
- Ensure a technical person is assigned by merchant before integration.
- Return a copy of completed Merchant Checklist to support@ipay88.co.id before start integration (**Refer to APPENDIX A**).
- Merchant **must** notify iPay88 Support team the intended live date of merchant account minimum **3 working days** in advance.



1.4 Transaction Flow Diagram





1.5 *Transaction Processing Step*

Step 1. Merchant sends HTTPs Post Request containing payment details to iPay88 OPSG. Payment Details contain the following fields:

- MerchantCode
- PaymentId
- RefNo
- Amount
- Currency
- ProdDesc
- UserName
- UserEmail
- UserContact
- CCHolderName
- CCNo
- CCMonth
- CCYear
- CCCVV
- Remark
- Signature (refer to 3.1)
- Response URL
- Backend URL

Step 2. iPay88 OPSG will verify all the value get, if valid, goto Step 3.

Step 3. The information will be send to bank for verification.

Step 4. If the card is 3D card, a 3D verification page will appear, if not go to Step 5

Step 5. Response is returned to the iPay88 website indicating a successful or failed transaction

Step 6. iPay88 OPSG response back the payment status to merchant with a signature.

Step 7. For successful payment transaction, the merchant needs to compare the signature from iPay88 OPSG. Refer to (3.2)

1.6 *Rule, Limitation and Constraint*

- Service Hours: 7x24 exclude host down time



2 Merchant Integration

2.1 URL

iPay88 OPSG **SANDBOX posting URL (payment page)**

URL: https://sandbox.ipay88.co.id/epayment/entry_v2.asp

iPay88 OPSG **PRODUCTION posting URL (payment page)**

URL: https://payment.ipay88.co.id/epayment/entry_v2.asp

iPay88 OPSG payment re-query

URL: <https://payment.ipay88.co.id/epayment/enquiry.asp>

Merchant **Request URL** : [provided by merchant before the integration]

Definition: Merchant Request URL is a checkout page at merchant website that submits the required parameter/value to iPay88 OPSG.

Merchant **Response URL** : [can be specify with **ResponseURL** in request page]

Definition: Response page URL is the page at merchant website that will receive payment status from iPay88 OPSG.

2.2 Logo

iPay88's OPSG allow merchant logo/banner to appear in payment page and email notification.

Merchant can provide the logo to iPay88 Support team and upload to merchant account.

The maximum allow size for the logo is 600 pixel (width) by 100 pixel (height) and the allow format are JPG, BMP, and GIF.



2.3 Payment Request Parameters

Merchant **HTTPS POST** payment request parameters to iPay88 OPSG

Field Name	Data Type	Size	M/O	Description
MerchantCode	String	20	M	The Merchant Code provided by iPay88 and use to uniquely identify the Merchant.
PaymentId	Integer		M	Refer to Appendix I.pdf file for Indonesia gateway .
RefNo	String	20	M	Unique merchant transaction number / Order ID Note: RefNo cannot re-use once used for success payment.
Amount	Currency		M	The amount must not contain any decimal points, thousands separators or currency symbols. For example, Rp 1.278,00 is expressed as 127800
Currency	String	5	M	Refer to Appendix I.pdf file for Indonesia gateway .
ProdDesc	String	100	M	Product description
UserName	String	100	M	Customer name
UserEmail	String	100	M	Customer email for receiving receipt
UserContact	String	20	M	Customer contact number
Remark	String	100	O	Merchant remarks
CCHolderName	String	100	M	Credit card Holders Name
CCNo	Integer		M	Credit card number
CCCVV	Integer		M	Credit card cvv number (e.g. 123)
CCMonth	Integer		M	Credit card expiry month (e.g. 01)
CCYear	Integer		M	Credit card expiry year (e.g. 15)
Lang	String	20	O	Encoding type "ISO-8859-1" – English "UTF-8" – Unicode "GB2312" – Chinese Simplified "GD18030" – Chinese Simplified "BIG5" – Chinese Traditional
Signature	String	100	M	SHA1 signature (refer to 3.1)
ResponseURL	String	200	M	Payment response page
BackendURL	String	200	M	Backend response page URL (refer to 2.7)

Legend:

M: Mandatory field

O: Optional field, value can be empty but parameter must exist



2.4 Sample HTML Source (Payment Request)

HTTP POST method

Example

```
<HTML>
<BODY>
<FORM method="post" name="ePayment"
action="https://payment.ipay88.co.id/epayment/entry_v2.asp">

<INPUT type="hidden" name="MerchantCode" value="ID00001">
<INPUT type="hidden" name="PaymentId" value="1">
<INPUT type="hidden" name="RefNo" value="A00000001">
<INPUT type="hidden" name="Amount" value="100000">
<INPUT type="hidden" name="Currency" value="IDR">
<INPUT type="hidden" name="ProdDesc" value="Photo Print">
<INPUT type="hidden" name="UserName" value="John Tan">
<INPUT type="hidden" name="UserEmail" value="john@hotmail.com">
<INPUT type="hidden" name="UserContact" value="0126500100">
<INPUT type="hidden" name="Remark" value="">
<INPUT type="hidden" name="CCHolderName" value="John Doe Tan">
<INPUT type="hidden" name="CCNo" value="4111111111111111">
<INPUT type="hidden" name="CCCVV" value="123">
<INPUT type="hidden" name="CCMonth" value="01">
<INPUT type="hidden" name="CCYear" value="18">
<INPUT type="hidden" name="Lang" value="UTF-8">
<INPUT type="hidden" name="Signature" value="u4UJxVz6jgxx0qFA0b6oLC6sUgs=">
<INPUT type="hidden" name="ResponseURL"
value="http://www.YourResponseURL.com/payment/response.asp">
<INPUT type="hidden" name="BackendURL"
value="http://www.YourBackendURL.com/payment/backend_response.asp">

<INPUT type="submit" value="Proceed with Payment" name="Submit">
</FORM>
</BODY>
</HTML>
```

Note: Do not copy and paste the code above as it just a reference only



2.5 Payment Response Parameters

HTTPS POST response from iPay88 OPSG after performing payment

Field Name	Data Type	Size	M/O	Description
MerchantCode	String	20	M	The Merchant Code provided by iPay88 and use to uniquely identify the Merchant.
PaymentId	Integer		M	Refer to Appendix I.pdf file for Indonesia gateway .
RefNo	String	20	M	Unique merchant transaction number / Order ID
Amount	currency		M	The amount must not contain any decimal points, thousands separators or currency symbols. For example, Rp 1.278,00 is expressed as 127800
Currency	String	5	M	Refer to Appendix I.pdf file for Indonesia gateway .
Remark	String	100	O	Merchant remarks
TransId	String	30	O	iPay88 OPSG Transaction ID
AuthCode	String	20	O	Bank's approval code
Status	String	1	M	Payment status "1" – Success "0" – Fail
ErrDesc	String	100	O	Payment status description (Refer to Appendix I.pdf)
Signature	String	100	M	SHA1 signature (refer to 3.2)

Legend:

M: Mandatory field

O: Optional field, value can be empty but parameter must exists



2.6 Sample HTML Source (Payment response)

2.6.1 ASP sample code

```
<%  
MerchantCode      = Request.Form("MerchantCode")  
PaymentId        = Request.Form("PaymentId")  
RefNo            = Request.Form("RefNo")  
Amount          = Request.Form("Amount")  
eCurrency       = Request.Form("Currency")  
Remark          = Request.Form("Remark")  
TransId         = Request.Form("TransId")  
AuthCode        = Request.Form("AuthCode")  
eStatus         = Request.Form("Status")  
ErrDesc         = Request.Form("ErrDesc")  
Signature        = Request.Form("Signature")  
%>  
<Add your programming code here>
```

2.6.2 PHP sample code

```
<?PHP  
$merchantcode    = $_REQUEST["MerchantCode"];  
$paymentid      = $_REQUEST["PaymentId"];  
$refno          = $_REQUEST["RefNo"];  
$amount         = $_REQUEST["Amount"];  
$currency       = $_REQUEST["Currency"];  
$remark         = $_REQUEST["Remark"];  
$transid        = $_REQUEST["TransId"];  
$authcode       = $_REQUEST["AuthCode"];  
$status         = $_REQUEST["Status"];  
$errdesc        = $_REQUEST["ErrDesc"];  
$signature      = $_REQUEST["Signature"];  
PHP?>  
<Add your programming code here>
```



2.7 Backend Post Feature

The Backend POST feature is server to server technology where it does not depend on the user's web browser to return payment response data to merchant website. With this feature implemented, your system still can get the payment status on the backend (asynchronously) even if the merchant normal response page fails to get status from iPay88 OPSG which may be due to a closed web browser, internet connection timeout and etc.

Current Supported e-Commerce system with Backend Post

- OpenCart v1.5

Note

- This Backend post feature will **ONLY** return status if the transaction is a **payment success**. No status will return if the payment is failed.
- The Backend page should implement **checking** same like response page such as **signature checking**, and etc to prevent user hijack merchant system.
- The backend page should not have session related code so that merchant systems are still able accept payment status from iPay88 OPSG even if the user is logged out or the session is expired.
- You need to implement a **check to determine** either "response page" or "backend page" to update the order so it won't update order status in merchant system **more than 1 time**.
Note: After receiving the payment success status, iPay88 OPSG will simultaneously return payment status to "response page" and "backend page".
- The backend page is **not** a replacement for the response page. You will still need to continue to use the normal response page as usual.

Implementation

On the merchant website, create another page to accept backend post response parameters from iPay88 OPSG.

The return backend post response parameters are **same** like normal response page parameters.

(Refer to 2.5)

On the request page, specify the backend post URL by using "**BackendURL**" parameter. **(Refer to 2.3)**

Example:

```
<input name="BackendURL" value="http://www.abc.com/backend\_response.asp">  
Continue next page...
```

On the 'backend_response.asp' page you need to write out the word '**RECEIVEOK**'



only (without quote) as an acknowledgement once the backend page success get the payment status from iPay88 OPSG and update status to success on merchant system.

iPay88 OPSG will re-try send the payment status to the 'backend_response.asp' page up to 3 times on different interval if no '**RECEIVEOK**' acknowledgement detected.

Example:

In ASP >> `response.write "RECEIVEOK"`

In PHP >> `echo "RECEIVEOK";`

Note: Make sure just the word '**RECEIVEOK**' **only** on the backend page and without any HTML tag on the page.



2.8 Re-query Payment Status Parameters (Response URL to enquiry.asp)

Merchant HTTPS POST re-query payment status parameters to iPay88 OPSG

Field Name	Type (Size)	M/O	Description
MerchantCode	varchar(20)	M	Merchant Code assigned by iPay88
RefNo	varchar(20)	M	Unique merchant transaction number / Order ID
Amount	Currency	M	Payment amount with two decimals

Legend:

M: Mandatory field

O: Optional field, value can be empty but parameter must exists

Possible message reply on the page from iPay88 OPSG

Possible reply from iPay88 OPSG	Description
00	Successful payment
Invalid parameters	Parameters pass in incorrect
Record not found	Cannot found the record
Incorrect amount	Amount different
Payment fail	Payment fail
M88Admin	Payment status updated by iPay88 Admin(Fail)



2.8.1 Sample source code for re-query function in ASP

```
<%
Function SendToiPayInq(byval MerchantCode, byval RefNo, byval Amount)

Dim TryNo, thenQString, URL, strReturn
    TryNo = 0

QString = "MerchantCode=" & MerchantCode & "&RefNo=" & RefNo & _
    "&Amount=" & Amount
    URL = "https://payment.ipay88.co.id/ePayment/enquiry.asp"
    On Error Resume Next

Do
    Set xobj = Server.CreateObject ("Msxml2.ServerXMLHTTP.3.0")
    xobj.setTimeouts 30000, 60000, 60000, 60000
    xobj.open "POST", URL, false
    xobj.setRequestHeader "Content-Type", "application/x-www-form-urlencoded"
    xobj.send QString
    TryNo = TryNo + 1
Loop While xobj.status <> 200 and TryNo < 3

If xobj.status <> 200 Then
    SendToiPayInq = Err.Description & "(" & Err.Number & ")"
Else
    SendToiPayInq = xobj.responseText
End If
set xobj = nothing

End Function

%>
```

2.8.2 Sample source code for re-query function in PHP

```
<?PHP

function Requery($MerchantCode, $RefNo, $Amount){

$query = "https://payment.ipay88.co.id/epayment/enquiry.asp?MerchantCode=" .
$MerchantCode . "&RefNo=" . $RefNo . "&Amount=" . $Amount;

$url = parse_url($query);
$host = $url["host"];
$path = $url["path"] . "?" . $url["query"];
$timeout = 1;
$fp = fsockopen ($host, 80, $errno, $errstr, $timeout);
if ($fp) {
    fputs ($fp, "GET $path HTTP/1.0\nHost: " . $host . "\n\n");
    while (!feof($fp)) {
        $buf .= fgets($fp, 128);
    }
    $lines = preg_split("\n", $buf);
    $Result = $lines[count($lines)-1];
    fclose($fp);
} else {
    # enter error handling code here
}
return $Result;

}

?>
```



3 Security Control

To enhance security, please go through the following steps at the merchant's payment status receiving page (Response URL):

- Check the HTTP_REFERER value is from <https://payment.ipay88.co.id> (*only applicable if the merchant web site is working with SSL Certificate*).
- Check the payment amount from iPay88 OPSG is match with yours.
- Compare the Signature from iPay88 OPSG with your own generated Signature.

Data Integrity and Security using Hash Signature

SHA1 hash is a security feature that enables your script to identify the results of a transaction are actually from the appropriate authorization source and also for iPay88 OPSG to make sure the integrity of data received on a transaction request.

Using the SHA1 algorithm, a unique signature or fingerprint of the transaction can be created. This mathematical algorithm used to construct this signature is designed in such a way that any change to the information used in the calculation of the signature will cause a completely different signature to be created.

Also, the information used in the calculation of the signature cannot be discovered through any analysis of the signature itself.

This is done by using information from your account. Every transaction that is processed through the system has a corresponding hash signature of the transaction created during the transaction process.



3.1 Request page signature

This signature must be included in the request of every transaction. This hash signature for a request is a hash of the following five fields:

1. **MerchantKey** (Provided by iPay88 OPSG and share between iPay88 and merchant only)
2. **MerchantCode**
3. **RefNo**
4. **CCNo**
5. **CCMonth**
6. **CCYear**
7. **CCCVV**
8. **Amount**
9. **Currency**

The fields must set in the following order,
(MerchantKey & MerchantCode & RefNo & CCNo & CCMonth & CCCVV & Amount & Currency)

Example:

MerchantKey = "apple"

MerchantCode = "ID00001"

RefNo = "A00000001"

CCNo = "4111111111111111"

CCMonth = "01"

CCYear = "18"

CCCVV = "123"

Amount = "10000.00" (**Note:** Remove the "." and "," in the string before hash)

Currency = "IDR"

The hash would be calculated on the following string:

appleID00001A0000000141111111111111101181231000000IDR

The resulting has signature value equals to (using SHA1 algorithm)

u4UJxVz6jgxx0qFA0b6oLC6sUgs=

To ensure the signature generated was correct, visit the link below for signature comparison.

https://payment.ipay88.co.id/epayment/testing/TestSignature_v2.asp



3.2 *Response page signature*

If the Merchant request is successful the response message will contain as SHA1 hashed signature. The hash signature for the response is a hash of the following fields:

1. **MerchantKey** (Provided by iPay88 OPSG and share between iPay88 and merchant only)
2. **MerchantCode**
3. **PaymentId**
4. **RefNo**
5. **Amount**
6. **Currency**
7. **Status**

The fields must be set in the following order,
(MerchantKey & MerchantCode & PaymentId & RefNo & Amount & Currency & Status)

For Example:

MerchantKey = "apple"

MerchantCode = "ID00001"

PaymentId = "1"

RefNo = "A00000001"

Amount = "10000.00" (**Note:** Remove the "." and "," in the string before hash)

Currency = "IDR"

Status = "1"

The hash would be calculated on the following string:

appleID000011A000000011000000IDR1

The resulting has signature value equals to (using SHA1 algorithm)

vewK2KcOI3IyFug1UEsnzDjTDDA=

To ensure the signature generated was correct, visit the link below for signature comparison.

https://payment.ipay88.co.id/epayment/testing/TestSignature_response.asp



When iPay88 OPSG receives the request or transaction order from the merchant, it will check the hash value it generates to match with the value you as a merchant have included. When your script receives the results of the transaction, you can create the hash on your side and be sure that matches ours. As you will already know your Merchant Key and the Merchant Code, and will receive the Ref No which will then be presented to us. Do take note that the signature in the response will only be present if the transaction is not in error, that is, for approved and declined transactions.

A developer would then take the results of the transaction AFTER it has been returned to your site, and run the hash algorithm on the fields mentioned above. The only way that the results of a developer's procession can match the signature included with the transaction results is if the password used in the hash on the developer's end MATCHES the one used in the transaction.

The iPay88 OPSG Merchant Key is a shared secret (between merchant and iPay88 OPSG), and is one of the key pieces of information in the hash. One can be assured that if the signature generated on your end matched the one sent with the transaction, then the transaction has in fact been processed by our system, and has not been posted back to the merchant's server from any other location.

The iPay88 OPSG Merchant Key is generated by us that it's send to you. The key will only recreate if iPay88 OPSG suspects that the key is not secure or any fraud cases happen.

More information about the SHA1 hash algorithm, including sample implementation code, can be found in [RFC 3174](#) in [The Internet Engineering Task Force](#) web site.



3.2.1 Sample function code to generate iPay88 OPSG Signature

Using .NET you can use the available libraries to perform this:

```
Public Shared Function ComputeHash(ByVal Key As String) As String
    Dim objSHA1 As New SHA1CryptoServiceProvider()
    objSHA1.ComputeHash(system.Text.Encoding.UTF8.GetBytes(Key.ToCharArray))
    Dim buffer() As Byte = objSHA1.Hash
    Dim HashValue As String = System.Convert.ToBase64String(buffer)

    Return HashValue
End Function
```

Using PHP you can use the following code to perform this:

```
<?PHP
function iPay88_signature($source)
{
    return base64_encode(hex2bin(sha1($source)));
}

function hex2bin($hexSource)
{
    for ($i=0;$i<strlen($hexSource);$i=$i+2)
    {
        $bin .= chr(hexdec(substr($hexSource,$i,2)));
    }
    return $bin;
}
?>
```

** Sample code can be found in the sample code folder include*

- **ASP**
- **VB.Net**
- **PHP**
- **Javascript**

You may utilize the web service at

<https://payment.ipay88.co.id/epayment/Security/Security.asmx> to fit into your system



4 Reports and Notification

4.1 *Objective*

Allow merchants to login and view the reports online

4.2 *Merchant Transaction Report*

Step 1. Merchant can visit iPay88 OPSG report page by keying-in :

Report URL : <https://payment.ipay88.co.id/epayment/report/>

Login : [provided by iPay88 OPSG]

Password : [provided by iPay88 OPSG]

Step 2. After login, select transaction date

Step 3. The payment transaction report will display on the screen.



4.3 *Email Notification Disclaimer*

Note: Email notifications are **NOT** guaranteed by iPay88 OPSG as it is ISP dependent.

Online Report is the primary channel to obtain transaction status. Email notification should not be taken as a replacement of the primary channel.

E-mail transmissions cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of the email, which arise as a result of e-mail transmission. iPay88 accepts no liability for the content of the email, or for the consequences of any actions taken on the basis of the information provided, unless that information is subsequently confirmed in writing.



4.3.1 Customer Payment Receipt Email

Customers will receive a payment detail's email after successful payment. Below is the email sample:

Subject: iPay88 - Payment details (Ref# T0009378700) **Date:** Thu, 26 Jan 2009 09:59:30 GMT
From: iPay88 Sales (sales@ipay88.co.id)
To: John Tan (john@hotmail.com)



Dear John Tan,

We are pleased to inform you that your online payment via **iPay88** is successful. Your credit card/bank account has been debited with **IDR 3.000,00**.

Please note that "**Company Name**" will be listed in your credit card/bank statement for this transaction.

Transaction Detail

Order No: A00000001
Transaction ID: T0009378700
Transaction Date: 26-1-2006 09:59:30 AM
Transaction Amount: IDR 3.000,00
Payment Type: Credit Card
Product Description: Photo Print

Customer Support

If you have any questions about our product and services, please contact PT I & J directly at :

Tel No: 021-9999 0000

Fax No: 021-9999 0001

Email: support@i&j.com

Please do not reply to this email as it was automatically generated.

If you found any fraudulent cases, please contact iPay88.com Sdn Bhd immediately at

Tel: 021 5890 1520 Ext 102 / 202

Fax: 021 58901519

Email: support@ipay88.co.id

***iPay88 OPSG is an Online Payment Switching Gateway provided by iPay88. For more information, please visit www.ipay88.com**





4.3.2 Merchant Payment Notification Email

The Merchant will also receive a payment notification email after successful payment.

In order to ensure you are able received all our mail; do make sure you proceed with the following steps:

- From your mailbox, please white-list iPay88 OPSG mail address by adding **sales@ipay88.co.id** into your friend list.
- Also, please make sure your mailbox has not blacklisted our address which is the following **sales@ipay88.co.id**
- Allow us to serve you better by white listing our email address and domain **iPay88.co.id**. Please verify or allow your technical personnel (at the webhosting or email server) to verify the status of your email.

Below is the email sample:

Subject: iPay88 - Payment details (Ref# A00000001) **Date:** Thu, 26 Jan 2006 09:59:30 GMT
From: iPay88 Support (sales@ipay88.co.id)
To: ABC Admin (admin@abc.com)

Dear I & J Admin,

RefNo : A00000001

One new payment has been collected for ABC Sdn Bhd.

Please check the payment report at [iPay88 Online Report](#)

Customer Detail

Name : Ali
Email : ali@hotmail.com
Contact : 0392005555

Transaction Detail

Payment ID : T0009378700
Payment Date Time : 26-1-2006 09:59:30 AM
Payment Amount : IDR 3.000,00
Payment Type : Credit Card
Product Description : Photo Print
Remark :

Sincerely,
Your iPay88 Team

Tel: 021 5890 1520 Ext 102 / 202
Fax: 021 58901519
Email: support@ipay88.co.id



5 iPay88 OPSG Integration FAQs

1. What method use to pass payment parameters value to iPay88 OPSG ?

By using the HTTP POST method.

2. What do I provide to iPay88 OPSG before the integration of a merchant account ?

Return a copy of completed Merchant Checklist to **support@ipay88.co.id** and provide both the Request URL and Response URLs' of merchant website.

3. What are the merchant Request URL and Response URL ?

Request URL is a checkout page at merchant website that passes in iPay88 OPSG parameters to request payment page.

Response URL is a page at merchant website that accepts payment status from iPay88 OPSG after transaction.

4. How do I perform a payment testing during the integration stage ?

You can use any valid credit card for testing purpose. Details required are the credit card number, expiry date, CVV number and the card holder's name.

5. What transaction amount do I use for test payment ?

Use the following amount for the respective currency code.

Currency Code	Amount	Description
IDR	300000	The amount must not contain any decimal points, thousands separators or currency symbols. For example, Rp 3.000,00 is expressed as 300000 .



6. What if I get an error message and is unable to reach iPay88 OPSG payment page ?

Below are the common error messages returned and its respective description:

ERROR MESSAGE	DESCRIPTION
Duplicate reference number	Do not re-use Reference Number that previously payment success for transaction.
Invalid merchant code	The merchant code does not exist or incorrect.
Invalid parameters	Some parameter posted to iPay88 OPSG is invalid or empty.
Overlimit per transaction	Payment amount exceeded the value per transaction that assigned to merchant account.
Payment not allowed	Payment method requested is not allowed for the merchant account.
Permission not allow	Referrer URL of transaction request is not same as registered with iPay88 OPSG.
Signature not match	Signature on request page which pass to iPay88 OPSG is incorrectly generated. Refer section 3.1 in iPay88 OPSG Technical Specification for more information about Signature for request page.
Status not approved	Merchant account was suspended or not active.

7. Why do I get 'The return page URL not exist' message display on web browser and is unable to see the iPay88 OPSG payment page ?

- a) Make sure the correct merchant code is used.
- b) Provide the Request URL to support@ipay88.co.id before the integration.
- c) Make sure response URL is specify through ResponseURL field in request page or had updated in iPay88.

8. How do I ensure the integration is completed ?

- a) Make sure parameters are properly passed to iPay88 OPSG and success reach iPay88 OPSG payment page.
- b) Success receives payment status from iPay88 OPSG after perform test transaction.
- c) Make sure implemented security control on the merchant response page.
Example:
 - Compare the Signature from iPay88 OPSG with the generated merchant response page.



9. How can I change the merchant information such as Request URL, contact number, company name and bank account number ?

Send an email to support@ipay88.co.id to request for these changes.

10. What not to do after press “**Proceed Payment**” button at iPay88 OPSG payment page ?

- a) Do not disconnect your Internet connection.
- b) Do not close the web browser while transaction being process.
- c) Do not click “Back” button on web browser to avoid duplicate payment.

11. I am getting error description “Fail (Card issuing bank do not honor the transaction)” returned by iPay88 OPSG, what does it mean?

Please contact credit card issuer bank to check whether the card can be used for online purchases.

12. Is there any function from iPay88 OPSG where I can query payment status if my system did not get payment status return from iPay88 OPSG?

You can use the iPay88 OPSG Server Requery function to query the transaction status.

Please refer section **2.8** in iPay88 OPSG Technical Specification for more information about iPay88 server re-query.



APPENDIX A. MERCHANT CHECKLIST



Online Payment Switching Gateway

Merchant Checklist				
Merchant Name:		Name of iPay88 Account Manager:		
Date:		Contact Info:	Name: Contact No: Email address:	
Intended Live Date:		Status:	<input type="checkbox"/> Successful <input type="checkbox"/> Fail	
	Description	Remarks	Status	
			Yes	No
1.	Test Account Request	Please fill up this section if test account is requested. Purpose: Start Date: End Date: Assigned by:		
2.	Pre-requisite and Merchant Expectation on Integration	Before integration commencement please ensures the guidelines below are adhered. 1. Please register request URL on iPay88 before do integration/testing. Request URL : ----- 2. Registered request URL must be either IP or domain based. Note: LocalHost is not allowed. 3. Testing transaction must from registered URL . 4. Test transaction with amount IDR 10000.00 . 5. Test transaction with credit card ONLY . 6. Response URL can be set in request page with ResponseURL field or provided on below. Response URL : ----- 7. Backend post URL can be set in request page with BackendURL field. 8. Email notification is NOT guarantee as it ISP dependant.		
3.	Technical Competencies	Integration Competencies Required (at least one) <u>Programming Language</u> ASP.Net <input type="checkbox"/> PHP <input type="checkbox"/> ASP <input type="checkbox"/> Java <input type="checkbox"/> <u>Database</u> MySQL <input type="checkbox"/> MS SQL <input type="checkbox"/> <u>Others skill set</u> XML or Webservice <input type="checkbox"/>		



Online Payment Switching Gateway

4.	Integration Info	Please fill up this section Integration Start Date : Integration End Date : Target Live Date : Staging/Test URL : Production URL : Merchant Technical contact no : Merchant Technical email : iPay88 Integration contact :		
5.	Implemented iPay88 feature	Please specific implemented feature in merchant system Standard re-query <input type="checkbox"/> Webservice re-query <input type="checkbox"/> Backend post <input type="checkbox"/> Signature (via web services) <input type="checkbox"/>		
6.	Merchant ID Requirement	iPay88 <input type="checkbox"/> Own <input type="checkbox"/> If Own, list the intended Financial Provider, MID, Admin and UserID 1. 2. 3.		
7.	Customisation Requirement	If yes, please specify Landing Pages showing Merchant's Name <input type="checkbox"/> Statement showing Merchant's Name <input type="checkbox"/> Transaction Verification <input type="checkbox"/> Report Requirement <input type="checkbox"/> Data Requirement <input type="checkbox"/> Others, please specify <input type="checkbox"/> <please provide requirement document>	<input type="checkbox"/>	<input type="checkbox"/>



Online Payment Switching Gateway

Please tick on the section that completed.

- | | |
|---|--------------------------|
| Test Account Request | <input type="checkbox"/> |
| Prerequisites and Merchant Expectation on Integration | <input type="checkbox"/> |
| Technical Competency | <input type="checkbox"/> |
| Integration Info | <input type="checkbox"/> |
| Implemented iPay88 feature | <input type="checkbox"/> |
| Merchant ID Requirement | <input type="checkbox"/> |
| Customization Requirement | <input type="checkbox"/> |
| Integration Completed | <input type="checkbox"/> |
| Live Merchant Activation | <input type="checkbox"/> |
| Live Merchant Test Run | <input type="checkbox"/> |
| Payment Collected | <input type="checkbox"/> |

Signoff and Submitted by :

Remarks :

Signature:
Name:
Designation:
Date: