PAYMENT GATEWAY

API'S TO CREATE INVOICE

Contact

Website:

https://paynetwallets.in

Document Version 1.4

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Contents

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Overview

Invoice is the statement of goods sent or services provided for which the sum is due. Depending upon the frequency it can be one time or reoccurring but for both scenarios invoices are to be generated by different business models i.e., e-commerce, travel, utilities, telecom etc. Paynet Wallets Payments helps you create invoices but also email and sent payment link, but much more such as

- Merchant can customize or design invoices as per their requirements or use our built-in template.
- Due date reminders.
- Keep a digital record which also helps you for audits.
- Automating emails for reoccurring invoices.

One can not only create invoices by login into their biz account but can send API request to do the same.
Below we will be discussing the same i.e., what parameters are required to beposted in request and what will be the response.

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1. Create Invoice API

This is a basic API which can be used to create single item invoice that will be dispatched to the customer's email id along with the link to make payment.

Merchant has to provide an invoice number which has to unique and recommended if have some nomenclature which helps them in identifying these invoices in future.

URL: https://pg.paynetwallets.in/v1/createinvoice

PARAMETERS TO BE POSTED

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Paynet Wallets would assign a unique 40-digit merchant key to each merchant registeredon the system by you. This key is exclusive to each respective merchant account. For multiple merchant accounts, there will necessarily be one unique api_key per merchant account that is registered on Paynet Wallets by you.	varchar(40)	Mandatory
name	Customer Name	varchar(50)	Mandatory
email	Customer Email where Invoice will be sent	varchar(50)	Mandatory
phone	Customer Mobile Number where SMS will be sent (additional charges may apply)	number(10)	Mandatory
invoice_no	Invoice number should be numeric. This will appear on pdf invoice attachment.	number(10)	Mandatory
item_description	One line item descriptions. This will appear on the pdf invoice line item	varchar(140)	Mandatory

amount	Total invoice amount, inclusive of any taxes.	decimal(10,2)	Mandatory
hash	You need to compute a hash of all your parameters and pass that hash to Paynet Wallets,for details about calculating hash refer below section. Note: the SALT will be provided by Paynet Wallets separately. NEVER PASS SALTIN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP Package	varchar(255)	Mandatory

Request:

The Create Invoice Parameter in Curl format will be as given below.

```
curl --location --request POST 'https://pg.paynetwallets.in/v1/createinvoice' \

--form 'api_key=f14e50fd-82f0-4ce0-bd4e-de924908d4ff' \
--form 'name=test name' \
--form 'email=test@west.com' \
--form 'phone=9900990099' \
--form 'item_description=Testing Invoice' \
--form 'amount=5' \
--form
'hash=F31DF13F9947C7EC180815F092C82639F52BA91AC32127E747B0B4FBCA5372616DB187DC55815D41
DB724D2D8924305755DD2274075BEB3D13E14F13EE731512' \
--form 'invoice_no=1000012'
```

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Response:

Success Response

```
{
   "data": {
      "code": "SUCCESS",
      "message": "Invoice created"
   }
}
```

Sample Error Response

1) In case here is hash mismatch

```
{
   "error": {
      "code": "GEN-INVALID-HASH",
      "message": "The hash key field is invalid"
   }
}
```

2) If the Invoice number provided is not unique for that merchant.

```
{
   "error": {
      "code": "GEN-INVOICE-EXISTS",
      "message": "Invoice already exists."
   }
}
```

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2. Edit Invoice API

This API is used to edit invoice details.

URL: https://pg.paynetwallets.in/v1/createinvoice

PARAMETERS TO BE POSTED

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Paynet Wallets would assign a unique 40-digit merchant key to each merchant registeredon the system by you. This key is exclusive to each respective merchant account. For multiple merchant accounts, there will necessarily be one unique api_key per merchant account that is registered on Paynet Wallets by you.	varchar(40)	Mandatory
name	Customer Name	varchar(50)	Mandatory
email	Customer Email where Invoice will be sent	varchar(50)	Mandatory
phone	Customer Mobile Number where SMS will be sent (additional charges may apply)	number(10)	Mandatory
invoice_no	Invoice number should be numeric. This will appear on pdf invoice attachment.	number(10)	Mandatory
item_description	One line item descriptions. This will appear on the pdf invoice line item	varchar(140)	Mandatory
amount	Total invoice amount, inclusive of any taxes.	decimal(10,2)	Mandatory

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hash	You need to compute a hash of all your parameters and pass that hash to Paynet Wallets,for details about calculating hash refer below section. Note: the SALT will be provided by Paynet Wallets separately. NEVER PASS SALTIN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP Package	varchar(255)	Mandatory

Response:

Success Response

```
{
"error": {
"code": "SUCCESS",
 "message": "Invoice Detail Updated Successfully"
   }
 }
```

Sample Error Response

```
{
"error": {
      "code": "GEN-INVALID-HASH",
      "message": "The hash key field is invalid"
   }
}
 { "error": {
     "code": "GEN-INVALID-PARAMS",
     "message": "The api key field is required."
  }
}
```

3. Get Invoice Details API

This API is used to fetch invoice details by providing the unique invoice number in the request.

URL: https://pg.paynetwallets.in/v1/getinvoicedetails

Parameters to be Posted

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Paynet Wallets would assign a unique 40-digit merchant key to each merchant registeredon the system by you. This key is exclusive to each respective merchant account. For multiple merchant accounts, there will necessarily be one unique api_key per merchant account that is registered on Paynet Wallets by you.	varchar(40)	Mandatory
invoice_no	Invoice number	Integer	Mandatory
hash	You need to compute a hash of all your parameters and pass that hash to Paynet Wallets,for details about calculating hash refer below section. Note: the SALT will be provided by Paynet Wallets separately. NEVER PASS SALTIN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package	varchar(255)	Mandatory

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Response:

Success Response

```
{
  "data": {
    "id": 505660,
    "invoice_no": 947,
    "merchant_name": "SBM Wallet",
    "name": null,
    "phone": "8904124421",
    "email": "shivakrishnat095@gmail.com",
    "invoice_line_details": [
      {
        "description": "Registration - Gamepoint - Not Required~",
        "amount": "5.10"
      }
    ],
    "invoice_date": "25-Nov-2019",
    "invoice_due_date": "25-Dec-2019",
    "currency": "INR",
    "invoice_sub_total": "5",
    "GST": "0.10",
    "total_amount": "5.10",
    "balance_amount": "5.10",
    "status": "paid",
    "paid_transaction_id": "RPVISC4675911111",
    "paid_date_time": "2019-12-26 16:18:27"
  }
}
```

Sample Error Response

1) In case here is hash mismatch

```
{
  "error": {
    "code": "GEN-INVALID-HASH",
    "message": "The hash key field is invalid"
  }
}
```

2) If the Invoice number provided is not unique for that merchant.

```
{
  "error": {
    "code": "GEN-INVOICE-EXISTS",
    "message": "Invoice already exists."
  }
}
```

4. GET INVOICE DETAILS BY DATE RANGE API

Basic API to fetch Invoice details using date range, email or mobile.

URL: https://pg.paynetwallets.in/v1/getinvoicedetailsbydaterange

Parameters to be Posted

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Paynet Wallets would assign a unique 40-digit merchant key to each merchant registeredon the system by you. This key is exclusive to each respective merchant account. For multiple merchant accounts, there will necessarily be one unique api_key per merchant account that is registered on Paynet Wallets by you.	varchar(40)	Mandatory
date_from	Start date of transaction search range in yyyy-mm-dd	Varchar(10)	Mandatory
date_to	End date of transaction search range in yyyy-mm-dd	Varchar(10)	Mandatory
phone	Customer phone number	Varchar(15)	Optional
email	Customer email ID	Varchar(50)	Optional
hash	You need to compute a hash of all your parameters and pass that hash to Paynet Wallets, for details about calculating hash refer below section. Note: the SALT will be provided by Paynet Wallets separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package	varchar(255)	Mandatory

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Response:

<u>Sucessful response</u>

```
{
 "data": [
 {
 "id": 505660,
 "merchant_name": "SBM Wallet",
 "invoice no": 947,
 "invoice date": "25-Nov-2019",
 "due date": "25-Dec-2019",
 "currency": "INR",
 "invoice_line_details": [
 {
 "description": "Registration",
 "amount": "5.10"
 }
 ],
 "name": "Shivakrishna T",
 "phone": "8904124421",
 "email": "shivakrishnat095@gmail.com",
 "invoice_pay_link": "https://biz.Paynet Wallets.in/invoice/1a75de95-407d-4b57-b50a-
 b3e449a365b0","net total": "5.10",
 "balance_amount": "5.10",
 "status": "paid"
 },
 {
 "id": 505661,
 "merchant_name": "SBM Wallet",
 "invoice no": 948,
 "invoice date": "25-Nov-2019",
 "due date": "25-Dec-2019",
 "currency": "INR",
 "invoice_line_details": [
 {
 "description": "Registration - Gamepoint",
 "amount": "38.16"
 }
 ],
 "name": "Shivakrishna T",
 "phone": "8904124421",
 "email": "shivakrishnat095@gmail.com",
 "net total": "38.16",
 "balance_amount": "38.16",
 "status": "created"
 }
```

Sample Error Response

```
{
 "error": {
 "code": "GEN-INVALID-HASH",
 "message": "The hash key field is invalid"
 }
}
{
 "error": {
 "code": "GEN-INVOICE-NOT-FOUND",
 "message": "Invoice details not found"
 }
}
```

5. INVOICE DISPATCH API

Basic API to dispatch Invoice using unique invoice number.

URL: https://pg.paynetwallets.in/v1/dispatchinvoice

Parameters to be Posted

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Paynet Wallets would assign a unique 40-digit merchant key to each merchant registeredon the system by you. This key is exclusive to each respective merchant account. For multiple merchant accounts, there will necessarily be one unique api_key per merchant account that is registered on Paynet Wallets by you.	varchar(40)	Mandatory
invoice_no	Invoice number	Integer	Mandatory
Hash	You need to compute a hash of all your parameters and pass that hash to Paynet Wallets, for details about calculating hash refer below section. Note: the SALT will be provided by Paynet Wallets separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package	varchar(255)	Mandatory

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Response:

Success response

```
{
 "data": {
 "message": " Invoice dispatched successfully"
 "invoice_status": "dispatched"
 }
}
}
```

Sample Error Response

```
{
 "error": {
 "code": "GEN-INVALID-HASH",
 "message": "The hash key field is invalid"
 }
}
{
 "error": {
 "code": "GEN-INVOICE-ERROR",
 "message": "Invoice with cancelled status cannot be dispatched"
 }
}
```

6. CANCEL INVOICE API

Basic API to cancel invoice using unique invoice number.

URL: https://pg.paynetwallets.in/v1/cancelinvoice

Parameters to be Posted

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Paynet Wallets would assign a unique 40-digit merchant key to each merchant registeredon the system by you. This key is exclusive to each respective merchant account. For multiple merchant accounts, there will necessarily be one unique api_key per merchant account that is registered on Paynet Wallets by you.	varchar(40)	Mandatory
invoice_no	Invoice number	Integer	Mandatory
Hash	You need to compute a hash of all your parameters and pass that hash to Paynet Wallets, for details about calculating hash refer below section. Note: the SALT will be provided by Paynet Wallets separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package	varchar(255)	Mandatory

Response:

Success response

```
{
 "data": {
 "message": "Invoice cancelled successfully"
 "invoice_status": "cancelled"
 }
}}
```

Sample Error Response

```
{
 "error": {
 "code": "GEN-INVALID-HASH",
 "message": "The hash key field is invalid"
 }
}
{
 "error": {
 "code": "GEN-STATUS-INVALID",
 "message": "Invoice with cancelled status cannot be cancelled"
 }
}
```

7. Hash calculation guide

How to Calculate Hash on API request

To calculate hash, you will need the salt provided by Paynet Wallets.Hashing generation algorithm

Following are the steps to calculate hash.

1. Create a | (pipe) delimited string called hash_data with first value as the salt.
2. Now sort the post fields based on their keys and create a | delimited string, for the fields with values.
3. Hash the hash_data string using SHA512 hashing algorithm and save the hash in secure_hash string
4. Convert the secure_hash string to upper case

Example PHP code to generate hash

```
/**
 * @param array $parameters
 * @param string $salt
 * @param string $hashing_method
 * @return null|string
 */
function generateHashKey($parameters, $salt, $hashing_method = 'sha512')
{
    $secure_hash = null;
    ksort($parameters);
    $hash_data = $salt;
    foreach ($parameters as $key => $value) {
        if (strlen($value) > 0) {
            $hash_data .= '|' . trim($value);
        }
    }
BijliPay
    if (strlen($hash_data) > 0) {
        $secure_hash = strtoupper(hash($hashing_method, $hash_data));
    }

    return $secure_hash;
}
```

How to check the response Hash

It is important to make sure the response received from Paynet Wallets is genuine, and to do so you will need to do a hash check on your serveron receiving the response.

Every response received has a field called hash. Sometimes it is null, which means it in not important to check hash for the response, but if there is a hash present, please perform hash check as described below and make sure integrity of the response received from Paynet Wallets APIs.

To check hash, you will need the salt provided by Paynet Wallets.

Hash checking algorithm

Example PHP code to check hash

```php
/**
 * @param string $salt
 * @param array $response_array
 * @return bool
 */
function responseHashCheck($salt, $response_array)
{

    /* If hash field is null no need to check hash for such response */
    if (is_null($response_array['hash'])) {
        return true;
    }

    $response_hash = $response_array['hash'];
    unset($response_array['hash']);

    /* Now we have response json without the hash */
    $calculated_hash = hashCalculate($salt, $response_array);

    return ($response_hash == $calculated_hash) ? true : false;
}

/**
 * @param string $salt
 * @param array $input
 * @return string
 */

function hashCalculate($salt, $input)
{
    /* Columns used for hash calculation, Donot add or remove values from $hash_columns
```

```
array */
```

```php
    $hash_columns = array_keys($input);
    /*Sort the array before hashing*/
    sort($hash_columns);

    /*Create a | (pipe) separated string of all the $input values which are available
in $hash_columns*/
    $hash_data = $salt;
    foreach ($hash_columns as $column) {
        if (isset($input[$column])) {
            if (strlen($input[$column]) > 0) {
                $hash_data .= '|' . trim($input[$column]);
            }
        }
    }
    $hash = strtoupper(hash("sha512", $hash_data));

    return $hash;
}
```

Example PHP code to check hash if response is JSON

```php
/**
 * @param $salt
 * @param $response_json
 * @return bool
 */
function responseHashCheck($salt, $response_array)
{

    /* If hash field is null no need to check hash for such response */
    if (is_null($response_array['hash'])) {
        return true;
    }

    $response_hash = $response_array['hash'];
    unset($response_array['hash']);
    $response_json = json_encode($response_array);

    /* Now we have response json without the hash */
    $calculated_hash = hashCalculate($salt, $response_json);

    return ($response_hash == $calculated_hash) ? true : false;
}

/**
 * @param $salt
 * @param $input_json
 * @return string
 */
function hashCalculate($salt, $input_json)
{

    /* Prepend salt with input json and calculate the hash using SHA512 */
    $hash_data = $salt . $input_json;
    $hash = strtoupper(hash('sha512', $hash_data));

    return $hash;
}
```

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