



Version	Date	Author
1.0	29 th September, 2017	Gideon Akomeng

Overview

This document describes into details the processes and requirements for integrating into the NALO Solutions Payment gateway.

Prerequisite

To successfully complete the integration the following details are required as described in table 1.0 below:

TABLE 1.0

REQUIREMENT	DESCRIPTION
1. merchant_id	This is a unique identification created by NALO for third parties doing the integration.
2. username	This is the account name for the client. Required with a password when accessing the online portal.
3. password	The password to the user account generated by NALO.
4. Endpoint	https://api.nalosolutions.com/payplus/api/
5. Content type:	Application/json
6. Gateway IP	The IP address(es) of the host from which the request will be originating. This is required for authentication
7. Method	POST



MAKING PAYMENT INITIATION REQUEST

To successfully initiate payment, all required parameters must be present and successfully validated in the request. The request is JSON formatted and must contain the following as described in the table 2.0 below:

TABLE 2.0

PARAMS	DESCRIPTION	FORMAT (length)
1. merchant_id	The merchant_id is generated by NALO and is required to make a successful request. Eg: NPS_000551	STRING (10)
2. secrete	The secrete is required to authenticate the client. This is generated at the client's side as a concatenation of the username, key and md5 hash of the password all hashed in md5 . Eg. md5("\$\$username".\$\$key.md5('\$\$password'))	STRING
3. key	Randomly generated 4 digits used in generating the secret.	STRING (4)
4. order_id	The unique identification for the payment order. This is also generated at the client side and will be returned in the charging response.	STRING
5. customerName	The name of the payment authorizer or the buyer. Eg. Gideon Nana Kwesi	STRING
6. amount	This is the invoice amount stated in units of Ghanaian cedis. Note: the amount should be used with the currency. Eg. 2.00	NUMERIC
7. item_desc	The description of the purchased item or service. Eg.: bulksms	
8. customerNumber	This is the billing mobile number (msisdn) in the format of 233xxxxxxxx. Note: msisdn should always be prefixed with (233)	NUMERIC(12)
9. callback	The callback URL of the client that will be called to pass payment response.	STRING
10. payby	This option tells which network operator the authorizer is subscribed to. Available options are: MTN, AIRTEL, TIGO, VODAFONE	STRING



Sample request data format:

```
{  
  "merchant_id": "NPS_000002",  
  "secrete": "9224a7c40510214c392f9fb93714d38f",  
  "key": "0626",  
  "order_id": "myoder_15150",  
  "customerName": "Gideon",  
  "amount": "5",  
  "item_desc": "BulkSMS purchase",  
  "customerNumber": "233241000000",  
  "payby": "MTN",  
  "callback": "https://mycallbackurl.com/callback/"  
}
```

RESPONSE TO REQUEST

The response to the request is also a JSON data format as shown in the example below:

```
{  
  "Timestamp": "2018-01-04 11:24:47",  
  "Status": "Accepted",  
  "InvoiceNo": "203343123",  
  "Order_id": "myoder_15150"  
}
```



ELEMENT	DESCRIPTION	FORMAT (length)
1. Timestamp	This indicates the time period when the request was processed by the gateway	TIMESTAMP
2. Status	This indicates whether the transaction was successfully processed or not. Status is either Accepted or Failed with description	STRING
3. InvoiceNo	This is a unique number generated by the gateway to match the request. It is only available for transactions with Accepted status.	STRING
4. Order_id	This is the unique ID generated from client's side to match the request.	STRING

CALLBACK REQUEST

Callback request is sent by the gateway once the transaction has been completed. This request /report is sent **ONLY** when payment has been confirmed by the authorizer or buyer *as at API v1.0*

The callback request is a JSON data which sent via the callback URL received as part of the INITIATION REQUEST. The data is sent via a POST method with the same parameters as the RESPONSE to the payment initiation request with status as PAID.

See example below:

```
{
"Timestamp":"2018-01-04 11:25:02",
>Status:"PAID",
"InvoiceNo":"203343123",
"Order_id":"myoder_15150"
}
```

CALLBACK RESPONSE

The response to the callback is static as shown below:

```
{"Response":"OK"}
```