



*PAYMENT DATA EXCHANGE API
REFERENCE*



Npontu
Technologies



Payment Data Exchange API Reference Document

Introduction

This document outlines all required the specifications for the successful integration of 3rd party systems to the Npontu Technologies Limited Mobile Money Payment service. The parameters of the communication API is given and detailed with a description for the developers consumption.

Document Details

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PAYMENT COMMUNICATION REQUEST

This section details the parameters of the request body to be transmitted by the 3rd party system.

API: <http://pay.npontu.com/api/pay>

OWNER: Npontu

CONSUMER: Client

METHOD: POST

Parameters:

1. **number**

- a. **Definition:** the phone number of the client that is making payment to the merchant
- b. **Datatype:** varchar
- c. **Example:** 233249000000

2. **vendor**

- a. **Definition:** the network operator that the client is using and is registered on for mobile payment
- b. **Datatype:** varchar
- c. **Default Values:**
 - i. MTN
 - ii. Vodafone
 - iii. Airtel
 - iv. Tigo

3. **uid**

- a. **Definition:** the merchant username given by Npontu pay
- b. **Datatype:** varchar

4. **pass**

- a. **Definition:** the merchant password given by Npontu pay
- b. **Datatype:** varchar

5. **tp**

- a. **Definition:** merchant's system generated transaction id
- b. **Datatype:** Varchar
- c. **Example:** merch8238bd9id

6. **cbk**

- a. **Definition:** Merchants URL to which payment status will be sent to
- b. **Datatype:** HTTP URL
- c. **Format:** http://<domain>>//root_folder/script.ext
- d. **Method:** POST
- e. **Parameter:**
 - i. transaction_id : transaction id provided by the merchant (**tp**)
 - ii. responseMessage: Response description
 - iii. status: status of the transaction

1. Default values

- a. Success
- b. Failed

7. **amt**

- a. **Definition:** transaction amount
- b. **Datatype:** Double
- c. **Format:** 00.00
- d. **Example:** 12.90

8. **msg**

- a. **Definition:** short description of the transaction
- b. **Datatype:** varchar
- c. **Example:** "Npontu pay test transaction"

9. **vou**

- a. **Definition:** this is required only during transactions with vendor Vodafone. This a payment voucher number generated by the client from the vodafone mobile money USSD *110#

10. **trans_type**

- a. **Definition:** Specification for the type of transaction
- b. **Datatype:** varchar
- c. **Default value:**
 - i. credit
 - ii. debit
- d. **Note:** credit only works for Airtel network

PAYMENT COMMUNICATION RESPONSE

METHOD: POST

VALUES:

1. **transaction_id:**
 - a. **Definition:** transaction id provided by the merchant (tp)
 - b. **Datatype:** Varchar
 - c. **Example:** merch8238bd9id
2. **responseMessage**
 - a. **Definition:** Response description for the transaction
 - b. **Datatype:** varchar
 - c. **Example :** Transaction failed due to an invalid pin
3. **status**
 - a. **Definition:** status of the transaction
 - b. **Datatype:** Boolean
 - c. **Format:** Success or Failed

Defaule Values:

 - i. **Success**
 - ii. **Failed**

SAMPLE REQUEST CODE - PHP

```
/*
 * Variable Declaration
 */
$url = "http://pay.npontu.com/api/pay";
$date = date('Y-m-d');
$msg = "Payment for StarTimes Services Renewal";
$transaction_id = uniqid('merchID');
$uid = 'userid';
$password = 'userpass';
$callback = 'http://myDomainName/callback.php';
$amt= '12.00';

/*
 * Request Body Preparation
 */
$request=array(
    'number' =>$msisdn,
    'vendor' => 'mtn',
    'uid'=> $uid,
    'pass'=>$password,
    'tp'=>$transaction_id,
    'cbk'=>$callback,
    'amt'=>$amt,
    'msg'=>$msg,
    'trans_type'=>'debit'
);

/*
 * Posting Request Details
 */
$ch = curl_init($url);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, false);
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_TIMEOUT, 3);
curl_setopt($ch, CURLOPT_POSTFIELDS, $request);
$output = curl_exec($ch);

/*
 * Displaying output
 */
print_r($output);
```

SAMPLE CALLBACK CODE - PHP

```
/*  
  
    * DATA INTERCEPTION  
    */  
$transaction_id = $_POST['transaction_id'];  
$responseMessage = $_POST['responseMessage'];  
$status = $_POST['status'];  
/*  
    * Logical Processing  
    */  
if ($status=='Success'){  
    echo "client has paid successfully and i need to supply him the service";  
}elseif ($status=='Failed'){  
    echo "client's payment failed do not supply him the service.";  
    /*  
        * Reason for failure  
        */  
    echo $responseMessage;  
}
```