

API document for prepaid/postpaid electricity

Version (Draft)3.2 Technical document

Introduction

This document defines the request and response message pairs used by an API client (e.g. A web app or a Point Of Sale Terminal) when purchasing electricity token post paid bill payments.

When a user is created, a consumer token key is generated and is returned after successful login with the normal username/password authentication. This key will be used to authenticate all the other requests to the API. All requests are JSON content POST. ~~IPs accessing the API shall be whitelisted.~~

Base URL

<https://app.pawacard.co.ke:8586/>

Current Version

[/v3](#)

<https://app.pawacard.co.ke:8586/v3>

General Statuses

Status	Description

0	Successful request
1	Failed request, pending
102	Insufficient balance
103	Bad reference number
104	Transaction not found
105	Meter has reached maximum vends allowed per day

Transaction Statuses

Status	Description
0	pending
5	pending
1	complete
2	failed

General methods and responses

Login

Endpoint: `/login`

`https://app.pawacard.co.ke:8586/v3/login`

REQ:

```
{ "username": "username", "password": "password"
}
```

Wrong password

RESP:

```
{  
  "status": 1,  
  "msg": "Wrong Username or Password"  
}
```

Correct password

```
{  
  "status": 0,  
  "msg": "success",  
  "balance": "39", "key": "ElKW2XWqxylnUDPG6bKAW5zKI3JyT23CpP1Nu  
68c724"  
}
```

Balance check

Endpoint: `/balance`

REQ:

```
{"username": "testvendor", "key":  
"ElKW2XWqxylnUDPG6bKAW5zKI3JyT23CpP1Nu68c724"}
```

RESP:

```
{  
  "status": 0,  
  "msg": "success",  
  "balance": "320"  
}
```

PREPAID ELECTRICITY

Get Meter Details

Endpoint: `/verify`

Get meter details - used to get the registered names for the meter from Kenya Power

REQ:

```
{"username": "testvendor", "meter": "01234567898", "key":  
  "ElKW2XWqxylnUDPG6bKAW5zKI3JyT23CpP1Nu68c724"}
```

failed request due to network connection issues

```
{  
  "status": 1,  
  "msg": "Request timed out. please fetch the response again",  
  "code": "elec100"}  

```

Successful request

REQ:

```
{"username": "testvendor", "meter": "01451174955", "key":  
"ElKW2XWqxylnUDPG6bKAW5zKI3JyT23CpP1Nu68c724"}
```

RESP:

```
{  
  "status": 0,  
  "msg": "success",  
  "customerName": "Bilbo Baggins"  
}
```

Meter number doesn't exist at Kenya Power

RESP:

```
{  
  "status": 1,  
  "msg": "The specified MSN0 12345678912 did not pass the Luhn  
validation. Please specify a valid MSN0. ALERT ID-010072 Cont  
act the Support services for assistance if required.",  
  "code": "elec100"  
}
```

Vend

Used to vend a token from Kenya Power for a given meter and amount.

Transaction code elec000 will be returned for a successful vend, elec001 for a failed vend e.g. for threshold changes and time based changes. elec003 will be returned if a transaction failed along the way before getting to (or at)

Kenya Power.

Endpoint: /vend

Example REQ:

```
{
  "username": "testvendor", "amount": "50", "meter": "12345678
912", "key": "ElKW2XWqxylnUDPG6bKAW5zKI3JyT23CpP1Nu68c724",
  "customerName": "Bilbo Baggins", "ref": "370474587102"
}
```

Successful response

RESP:

```
{
  "status": 0,
  "msg": "success",
  "transaction": {
    "status": 1,
    "vendor": "testvendor",
    "meterNo": "01234567894",
    "rescode": "elec000",
    "stdTokenTax": "0",
    "stdTokenAmt": "129722",
    "units": "197.9",
  }
}
```

```
"token": "66430474307561657038",
"stdTokenRctNum": "RADIX0VS010VS224392",
"date": "11-4-2014 20:24:7",
"totalAmount": "200",
"transactionId": 252,
"fixed": [
    {"REPCharge": "6486"},
    {"MonthlyFC": "12000"},
    {"ERCCharge": "593"},
    {"TotalTax": "1440"},
    {"FuelIndexCharge": "92770"},
    {"ForexCharge": "31055"},
    {"InflationAdjustment": "5934"}
],
"ref": "370474587102",
"customerName": "Bilbo Baggins"
}
```

Pending request

RESP:

```
{
  "status": 1,
  "msg": "",
  "transaction": {
    "status": 5,
```

```
        "msg": "transaction still pending",
        "transactionId": 3218,
        "ref": "370474587102"
    }
}'''

##### Transaction throttle
A meter is throttled to 1 transaction in 5 minutes from the previous one.

RESP:
'''json
{
    "status": 1,
    "msg": "This transaction has been done too soon from the last one. Please wait for a few minutes."
}
```

Get Transaction

This method is used to get transaction details or check the status

Endpoint: `/transaction`

parameters: @username, @key, @ref

method will return the same data as `/vend` endpoint.

POSTPAID

Verify Account

Endpoint `/postpaidverify`

Request:

```
{"username": "test", "key": "qLGgPsy6DGvT5hV", "accountNo": "0203754-01"}
```

Response:

```
{  
  "status": 0,  
  "msg": "",  
  "customerName": "Bilbo Baggins",  
  "customer_balance": "10"  
}
```

Failed Request e.g if we cannot get to Kenya Power

Request:

```
{"username": "test", "key": "qLGgPsy6DGvT5hV", "accountNo": "0203754-01"}
```

Failed Response:

```
{  
  "status": 1,  
  "msg": "Connection error"
```

```
}
```

Pay Bill

Endpoint `/postpaidbill`

Transaction statuses

Status	Code
Pending	0
Pending	5
Success	1
Failed	2

Request:

```
{"username": "test", "customerName": "Bilbo Baggins", "amount": "1000", "key": "qLGgPsy6DGvT5hVvWrmY0CY5h5NNjlPI0ZgpS4", "accountNo": "0203754-01", "ref": "370474587102"}
```

Successful Response:

```
{
  "status": 0,
  "msg": "success",
  "transaction": {
    "status": 1,
```

```
"rctNum": "151172056109030422",
"vendor": "test",
"accountNo": "0203755-01",
"amount": "1000",
"date": "27-4-2015 21:56:11",
"transactionId": 3,
"ref": "015117215614",
"customerName": "Bilbo Baggins"
}
}
```

Pending Response:

```
{
  "status": 1,
  "msg": "success",
  "transaction": {
    "status": 0,
    "vendor": "test",
    "accountNo": "0203754-01",
    "msg": "transaction still pending",
    "amount": "1000",
    "date": "27-4-2015 21:49:14",
    "transactionId": 2,
    "ref": "370474587102",
    "customerName": "Bilbo Baggins"
  }
}
```

```
}
```

Failed Response:

```
{
  "status": 1,
  "msg": "",
  "transaction": {
    "status": 2,
    "vendor": "test",
    "accountNo": "0203754-01",
    "msg": "Failed, please try again",
    "amount": "1000",
    "date": "27-4-2015 21:49:14",
    "transactionId": 2,
    "ref": "370474587102",
    "customerName": "Bilbo Baggins"
  }
}
```

Postpaid Transaction check

Endpoint: `/postpaidtransaction`

Request:

```
{"username": "testvendor", "ref": "370474587102", "key": "qLG
```

```
gPsy6DGvT5hVvWrmY0CY5h5"}
```

Response:

```
{
  "status": 0,
  "msg": "success",
  "transaction": {
    "status": 1,
    "rctNum": "151172056109030422",
    "vendor": "testvendor",
    "accountNo": "0203755-01",
    "amount": "1000",
    "date": "27-4-2015 21:56:11",
    "transactionId": 3,
    "ref": "370474587102",
    "customerName": "Bilbo Baggins"
  }
}
```

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