CamPay API

Online Payments Made Easy

Signup on our demo site: https://demo.campay.net

Login and register an **application**

Error codes reference

Error code	Description
ER101	Invalid phone number. Ensure the number starts with the country code. e.g 237xxxxxxxxx
ER102	Unsupported Carrier phone number. Currently, only MTN and Orange phone numbers are accepted for mobile money
ER201	Invalid amount. Decimal numbers are NOT allowed. The Amount can be sent as integer or string
ER301	Insufficient balance. Trying to withdraw an amount which is above your current balance for the specific carrier

Authentication

There are two methods of authenticating requests.

1. Using a **permanent access token** that does not expire.
2. Using a **temporary access token** that expires and you can renew it.

Method 1

Permanent access token:

You can find your permanent access token under the APP KEYS section of your app.
Copy it and use it in the Authorisation header of your request. e.g

```json
{
    Authorization: Token 69e2df238ea8d66f24018574c5de51e2b77d9abb,
    Content-Type: application/json
}
```

Method 2

Temporary access token:

POST **Get access token**

https://demo.campay.net/api/token/

/token/

After registering your application from your account, we generate API access username and password for that application which will be used to get access tokens before you can perform operations on our API.

Response parameters

- **token** : To be used in subsequent requests in the **Authorization** header.
- **expires_in** : Shows when the token will expire. In **seconds**

Successful response status code:

200

HEADERS

Content-Type   application/json

Body raw (json)

```json
json
{
    "username": "b-8OfojjDf35sqwli92G2t_EU4s7Oxxbp0wEWvX_ITTUUsIkSLiQWo7c_jG0ok8E59EM8A5OXVQ-Y1
    "password": "hFOs7Ibg0yyN0fsDq8CFvI2QRZHmGgUMObyetKli0N07uZ8eq9d3Gr2GfjsQjvP9m5YtmQk7asBef3
}
```

POST **Request Payment**

https://demo.campay.net/api/collect/

/collect/

This endpoint is used to request payment from users.

When this endpoint is called, the user gets a prompt on their mobile phone to authorize the payment by entering their mobile money PIN.

The token gotten from the `/token` endpoint is used here with the Authorization header beginning with "Token".

When you initiate a transaction, the default status is PENDING. When processed, the status can be SUCCESSFUL or FAILED.

This endpoint supports **Idempotency** on **external_reference field.** If you make the first request with a particular external_reference and then make the second request with the same external_reference as the first, you will get the results of the first request. Change the external_reference or leave it blank to initiate a new transaction

Request Body

Format: Json

Parameters:

- "**amount**": "A valid **integer**" e.g "5",
- "**currency**": "XAF"
- "**from**": "A valid phone number with country code" e.g "2376xxxxxxxx",
- "**description**": "Payment description",
- "**external_reference**": "OPTIONAL. You can use this field to specify the reference of the transaction generated by your system. We will return this reference to you on the /transaction status endpoint"

-
  "A valid and unique **UUID4**". Example herehttps://www.uuidgenerator.nete.g "2ceefe04-1a79-4914-9dd0-c61748c2aecd". Each request should have a unique UUID. A request with a duplicate UUID will be **rejected**

Response Body

Format: Json

Parameters:

- "**reference**": "A valid **UUID4**. This reference is used to check the status of the transaction. Use the `/transaction/(reference)/` endpoint to check the status.

Successful response status code:

200

HEADERS

Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4MDMsIn5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w
Content-Type	application/json

Body raw (json)

```json
json

{
    "amount": "5",
    "currency": "XAF",
    "from": "2376XXXXXXXX",
    "description": "Test",
    "external_reference": "",
    "external_user": ""
}
```

POST Payment Links

https://demo.campay.net/api/get_payment_link/

/get_payment_link/

Receive payments from your clients using generated links.

Request Body

Format: Json

Parameters:

- "**amount**": "A valid **integer**" e.g "5",
- "**currency**": "XAF"
- "**from**": "OPTIONAL. A valid phone number with country code" e.g "2376xxxxxxxx",
- "**description**": "Payment description",
- "**first_name**": "OPTIONAL". String
- "**last_name**": "OPTIONAL". String
- "**email**": "OPTIONAL". String

- **email** : OPTIONAL : string
- **external_reference**: "OPTIONAL. You can use this field to specify the reference of the transaction generated by your system. We will return this reference to you on the /transaction status endpoint"
- **redirect_url**: "https://example.com",
- **failure_redirect_url**:"https://example.com",
- **payment_options**: "MOMO". The payment options that you want to be displayed on the payment widget.
- **payer_can_pay_more**: "yes" or "no". OPTIONAL. This field allows you to specify if the payer can pay more than the defined amount for the payment link. If an amount is set and this field value is set to "yes", it will be considered as the minimum amount requred for that payment but the payer can pay more.

Response Body

Format: Json

Parameters:

- "**link**": Redirect your customer to this returned link to complete the payment.

Successful response status code:

200

HEADERS

Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4MDMsIm5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w
Content-Type	application/json

Body raw

```
{
    "amount": "5",
    "currency": "XAF",
    "from": "2376XXXXXXXX",
    "description": "Test",
    "first_name": "John",
    "last_name": "Doe",
    "email": "example@mail.com",
    "external_reference": "",
    "redirect_url": "https://example.com",
    "failure_redirect_url": "https://example.com",
    "payment_options":"MOMO",
    "payer_can_pay_more":"no"
}
```

GET   Transaction Status

https://demo.campay.net/api/transaction/(reference)/

/transaction/(reference)/

Use this endpoint to check for the status of an initiated transaction. When you perform an operation, for example, request payment, a reference UUID is returned which will serve as the reference for your requested transaction. Use the reference to check the transaction status

HEADERS

Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4MDMslm5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w
Content-Type	application/json

POST   Withdraw funds

https://demo.campay.net/api/withdraw/

/withdraw/

Withdraw funds from an app to a mobile money account. Ensure phone number has country code.

Note: **Withdrawals through the API must be allowed under your application settings**

This endpoint supports **Idempotency** on **external_reference field.** If you make the first request with a particular external_reference and then make the second request with the same external_reference as the first, you will get the results of the first request. Change the external_reference or leave it blank to initiate a new transaction

Request Body

Format: Json

Parameters:

- "**amount**": "A valid **integer**" e.g "5",
- "**to**": "A valid phone number with country code" e.g "237679587525",

- **"description"**: "Payment description",

- **"external_reference"**: "OPTIONAL. You can use this field to specify the reference of the transaction generated by your system. We will return this reference to you on the /transaction status endpoint"

- **"external_reference"**: "A valid **UUID4**". Example here https://www.uuidgenerator.net e.g "a2707130-2419-441e-95b8-1bddefc2cbfb". Each request should have a unique UUID. A request with a duplicate UUID will be **rejected**

Response Body

Format: Json

Parameters:

- **"reference"**: "A valid **UUID4**. This reference is used to check the status of the transaction. Use the `/transaction/(reference)/` endpoint to check the status.

Successful response status code:

200

HEADERS

Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4MDMslm5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w
Content-Type	application/json

Body raw (json)

```json
{
    "amount": "1",
    "to": "2376XXXXXXXX",
    "description": "Test",
    "external_reference": ""
}
```

GET   Webhook or Callback

https://example.com/yourcallback?status=SUCCESSFUL&reference=xyz&amount=100&currency=XAF&operator=

MTN&code=ABC1234567890&operator_reference=1234567890&signature=asdfasdfasdfasdfasdf&endpoint=coll

ect&external_reference=asdfasdfasdfadsasdf&external_user=xyz&extra_first_name=xyz&extra_last_name=xyz&extra_email=test@zyz.com&phone_number=237123456789

Define a callback url under your registered app.

Your callback url will be notified when a transaction is SUCCESSFUL or FAILED.
You can set if your callback url should expect a GET or POST request.

*If your callback url method is **GET,** expect a request with the following parameters. If your callback url is **POST**, expect a request with following JSON data:

- **status**: "SUCCESSFUL" or "FAILED",
- **reference**: "Reference of the transaction. A valid UUID4",
- **amount**: "Transaction amount",
- **currency**: "Transaction currency",
- **operator**: "MTN or ORANGE",
- **code**: "CamPay Reference",
- **operator_reference**: "Mobile Operator Reference"
- **signature**:"jwt token. You can validate this request that is coming from CamPay by using your app webhook key to validate the jwt token"
- **endpoint**: "collect" or "withdraw". This shows the kind of transaction that was performed. Deposits are "collect" while Withdrawals are "withdraw".
- **external_reference**: The reference on the platform that initiated the transaction.
- **external_user**: The user on the platform that initiated the transaction.
- **extra_first_name**: First name provided when the transaction was initiated.
- **extra_last_name**: Last name provided when the transaction was initiated.
- **extra_email**: Email provided when the transaction was initiated.
- **phone_number**: The phone number that initiated the transaction

PARAMS

status	SUCCESSFUL
reference	xyz
amount	100
currency	XAF
operator	MTN
code	ABC1234567890
operator_reference	1234567890
signature	asdfasdfasdfasdfasdf

endpoint	collect
external_reference	asdfasdfasdfadsasdf
external_user	xyz
extra_first_name	xyz
extra_last_name	xyz
extra_email	test@zyz.com
phone_number	237123456789

GET   Get Application Balance

https://demo.campay.net/api/balance/

/balance/

Returns

- total_balance
- mtn_balance
- orange_balance

HEADERS

Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4MDMsIm5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w
Content-Type	application/json

POST   Transaction History

https://demo.campay.net/api/history/

/history/

This endpoint is used to query your app's transaction history.

It requires the "start_date" and "end_date" to be provided in the POST data.

Note: The date should be in the format YYYY-MM-DD

HEADERS

Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4MDMsIm5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w
Content-Type	application/json

Body raw

```
{
    "start_date": "2021-01-01",
    "end_date": "2021-01-30"
}
```

POST   Utilities: Airtime Tansfer

https://demo.campay.net/api/utilities/airtime/transfer/

Transfer airtime to mobile numbers. On sandbox or demo environment, manimum and maximum amount is 100 XAF

HEADERS

Content-Type	application/json
Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4MDMsIm5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w

Body raw

```
{
    "amount":"5",
    "to":"237XXXXXXXX",
    "external_reference":""
```

```
    external_reference .
}
```

GET   Utilities: Transaction Status

https://demo.campay.net/api/utilities/transaction/(reference)/

Check the status of an initiated utility(Airtime) transaction

HEADERS

Content-Type	application/json
Authorization	Token eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsInVpZCI6Mn0.eyJpYXQiOjE2MDc0OTk4 MDMsIm5iZiI6MTYwNzQ5OTgwMywiZXhwIjoxNjA3NTAzNDAzfQ.wDVpvyC00u 5EX8KpddbNc8zbg43XFBrDYD7gJbeAc3w