

M-Changa API Developer Integration Manual

Overview

M-Changa offers the following application programming interfaces (APIs) for incorporating M-Changa related functionality into your web sites and applications. The API uses HTTP verbs and a RESTful endpoint structure.

API CALL

The core principle behind the M-Changa Tagged Fundraisers Widget is providing an API that listens to API calls with queries to the M-Changa system to check for the transactions, contributor numbers, amount raised and other related fundraiser statistics. An API call made to M-Changa is may accompanied by a fundraiser key (the account number) which defines a fundraiser distinctively and this in-turn retrieves the requested variables in three formats JSON, XML or HTML.

Different Methods to Interact with M-Changa RESTful API

The different ways to make API calls depend on which format is used on the client side. At the end of the URL is the "format" parameter. This is a reserved parameter that will modify the output format of the requested data like so:

XML	JSON	HTML	
data/format/xml	data/format/json	data/format/html	
<xml></xml>	{		
<amount>21423</amount>	"amount": 21423, "target": 30000	amount target	
<target>30000</target>	}	21423 30000	

API calls are made to base URI: https://secure.changa.co.ke/api/tagged/

The different API calls to be made include:

1. Check Server Status

Operation: GET /status/format/json

Use this call to check on the status of the server.

Request:

URI: https://secure.changa.co.ke/api/tagged/status/format/json

Param: not required

Response

Property	Туре	Description
Status	string	Live while server is up

```
{
   "status": "live"
}
```

2. Detailed fundraiser list

Operation: GET /all_fundrasiers/format/json

Use this call to retrieve a detailed list of variables from all the tagged fundraisers

Request:

URI: https://secure.changa.co.ke/api/tagged/all_fundrasiers/format/json

Param: not required

Response

Property	Туре	Description
historical_amt	string	Amount collected in the lifetime of the fundraiser
current_balance	string	The current balance (could be the derived from [historical_amt - total cashouts])
date_created	datetime	Date the fundraiser was created
payments_count	int	Total Number of payments made into this fundraiser
status	int	Active (1) or Inactive (0) state of the fundraiser
fundraiser_name	string	The name of the fundraiser
fundraiser_originator	string	The name of the fundraiser originator (owner)
fundraiser_statement_link	string	weblink of the fundraiser online statement

```
"historical_amt":774,
    "current_balance":194,
    "date_created":"2013-06-05 05:14:47",
    "payments_count":48,
    "status":"1",
    "fundraiser_name":"Arts For Life",
    "fundraiser_originator":"jekton",
    "fundraiser_statement_link":"http://tinyurl.com/ovdublg"
}
```

3. Detailed fundraiser list (individual fundraiser)

Operation: GET /indiv_fundraisers/key/<int>/format/json

Use this call to retrieve a detailed list of variables from an individual tagged fundraiser

Request:

URI: https://secure.changa.co.ke/api/tagged/indiv_fundraisers/key/<*int>/format/json

Param: pass the fundraiser key <*int> which is the fundraiser account number on the M-Changa platform. Also accepts a string <*string> in the case the fundraiser uses a synonym

Response

Property	Туре	Description
historical_amt	string	Amount collected in the lifetime of the fundraiser
current_balance	string	The current balance (could be the derived from [historical_amt - total cashouts])
date_created	datetime	Date the fundraiser was created
payments_count	int	Total Number of payments made into this fundraiser
status	int	Active (1) or Inactive (0) state of the fundraiser
fundraiser_name	string	The name of the fundraiser
fundraiser_originator	string	The name of the fundraiser originator (owner)
fundraiser_statement_link	string	weblink of the fundraiser online statement

```
"historical_amt":774,
    "current_balance":194,
    "date_created":"2013-06-05 05:14:47",
    "payments_count":48,
    "status":"1",
    "fundraiser_name":"Arts For Life",
    "fundraiser_originator":"jekton",
    "fundraiser_statement_link":"http://tinyurl.com/ovdublg"
```

}

4. Payment Parameters (individual fundraiser)

Operation: GET /pay_params/key/<int>/format/json

Use this call to retrieve payment instruction of a tagged fundraiser

Request:

URI: https://secure.changa.co.ke/api/tagged/pay_params/key/<*int>/format/json

Param: pass the fundraiser key <*int> which is the fundraiser account number on the M-Changa platform. Also accepts a string <*string> in the case the fundraiser uses a synonym

Response

Property	Туре	Description
fundraiser_name	string	name of the fundraiser
fundraiser_acno	string	account number of the fundraiser
m-changa_paybill	string	M-changa PAYBILL number
instruction	string	sentence instruction

```
{
   "fundraiser_name":"Arts For Life",
   "fundraiser_acno":"MUTALE",
   "m-changa_paybill":"891300",
   "instruction":"To donate on Safaricom: Go to MPESA Paybill 891300 Account MUTALE"
}
```

5. List Of All Payments

Operation: GET /all_payments/format/json

Use this call to retrieve a detailed list of payments from all the tagged fundraisers

Request:

URI: https://secure.changa.co.ke/api/tagged/all_payments/format/json

Param: not required

Response

Property	Туре	Description
fundraiser_name	string	The name of the fundraiser
m-changa_acno	int	Fundraiser acno on the M-Changa platform
amount	float	Transaction Amount
contributor_mobno	string	Contributor MSISDN
contributor_name	string	Contributor Name
payment_date	datetime	Date the transaction was made

```
{
    "fundraiser_name":"Arts For Life",
    "m-changa_acno":"1489",
    "m-pesa_tr_id":"FP75H0069",
    "amount":"10",
    "contributor_mobno":"254720978838",
    "contributor_name":"JEFKINE KAFUNAH",
    "payment_date":"2014-09-06 12:44:00"
}
```

6. List Of All Payments (given Date Range)

Operation: GET /all_payments_in_range/start/<*datetime>/end/<*datetime>/format/json

Use this call to retrieve a detailed list of payments from all the tagged fundraisers for a given set of date range (start, end)

Request:

URT:

https://secure.changa.co.ke/api/tagged/all_payments_in_range/start/<*datetime>/end/<*date
time>/format/json

Param: pass the start and end <*datetime> params for the required date ranges

Response

Property	Туре	Description
fundraiser_name	string	The name of the fundraiser
m-changa_acno	int	Fundraiser acno on the M-Changa platform
amount	float	Transaction Amount
contributor_mobno	string	Contributor MSISDN
contributor_name	string	Contributor Name
payment_date	datetime	Date the transaction was made

```
"fundraiser_name":"Arts For Life",
    "m-changa_acno":"1489",
    "m-pesa_tr_id":"FP75H0069",
    "amount":"10",
    "contributor_mobno":"254720978838",
    "contributor_name":"JEFKINE KAFUNAH",
    "payment_date":"2014-09-06 12:44:00"
}
```