Freedom Fone 2.S API Documentation

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Authentication

The API uses HTTP digest authentication. The use of digest protects the integrity of the credentials, but not the payload.

Default credentials are:

```
Username: api
Password: thefone
```

Credentials can (and should) be changed in the file
/opt/freedomfone/gui/app/config/config.php

```
$config['public_api']= array(
        'user'      => 'api',
        'password'  => 'thefone',
        );
```

Restrict access

By default the API and the GUI is accessible to all IP networks. To restrict access to a certain IP network or IP address, please follow the instructions below.

1. Open the file: /opt/freedomfone/gui/app/.htaccess

   To restrict access, uncomment (remove #) the bottom lines.

   The .htaccess file grants access (to API and GUI) to any user that matches the networks defined by the "Allow from" statements.

   Do not forget to add the network (or IP address) that you intend to access the Freedom Fone GUI from.

   ```
   <IfModule mod_rewrite.c>
   RewriteBase /freedomfone
   RewriteEngine on
   RewriteRule    ^$    webroot/    [L]
   RewriteRule    (.*) webroot/$1    [L]
   </IfModule>
   Order deny,allow
   Deny from all
   Allow from localhost
   Allow from 127.0.0.1
   Allow from 91.226         //Allow access from IP network
   Allow from 192.168.1.1  //Allow access from single IP address
   ```

2. You can add and delete "Allow from" statements as you please.
   To allow access to the API from the Freedom Fone server, keep "Allow from localhost" and "Allow from 127.0.01".

Bin

Accepted methods: **GET**

Method bin() :
API to read all SMS messages, or per user, if phone number is supplied.
Please note that in order to use the plus sign (+) of a phone number, you must use the URL-encoded equivalent character, which is %2B.

Attributes
- phone_number(int)

CURL general usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/bin/ -d "sender=123456"
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
```

```
http://127.0.0.1/freedomfone/api/bin/ -d "sender=%2B263222"
```

Example Response:

```
HTTP/1.1 200 OK
Date: Wed, 08 Jun 2011 12:04:21 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
X-Powered-By: PHP/5.2.4-2ubuntu5.12
Content-Type: text/html
```

```
[{"Bin":
{
      "id":"506",
      "body":"pina1",
      "sender":"+263222",
      "created":"1307459968",
      "mode":"Unclassified",
      "proto":"GSM"
}
}]
```

Poll

Accepted methods: **GET**

Method poll($id) :
API to read all poll structures and corresponding votes, or specific poll data of id is supplied.

Attributes
- id: id of poll
- status: 0 (pending), 1 (open), 2 (closed)

CURL general usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/polls/%id%/ -d "status=1"
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/polls/1/ -d "status=1"
```

Example Response:

```
HTTP/1.1 200 OK
Date: Wed, 08 Jun 2011 12:04:21 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
X-Powered-By: PHP/5.2.4-2ubuntu5.12
Content-Type: text/html
 {"Poll":
     {
            "id":"1",
            "question":"Testing poll",
            "code":"test",
            "created":"1307533756",
            "start_time":"2011-06-08 13:49:00",
            "end_time":"2011-10-08 13:49:00",
            "status":"1",
            "invalid_open":"1",
            "invalid_closed":"0",
            "invalid_early":"0"
     },
 "Vote"[{"
            id":"1",
            "poll_id":"1",
            "chtext":"yes",
            "chvotes":"3",
            "votes_closed":"0",
            "votes_early":"0"
     },
     {
            "id":"2",
            "poll_id":"1",
            "chtext":"no",
            "chvotes":"1",
            "votes_closed":"0",
            "votes_early":"0"
     }
     ]}
```

Leave-a-message

Accepted methods: **GET**

Method lm_menus($id) :
API to read the settings of all existing Leave-a-message services, or specific Leave-a-message service if id is supplied

Attributes
- id : id of Leave-a-message service

CURL general usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/lm_menus/%id%/
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/lm_menus/1/
```

Example Response:

```
HTTP/1.1 200 OK
Date: Wed, 08 Jun 2011 13:57:11 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
X-Powered-By: PHP/5.2.4-2ubuntu5.12
Content-Length: 363
Content-Type: text/html

[{"LmMenu":  {
"id":"1",
"lmWelcomeMessage":"Welcome to Freedom Fone Leave a Message Service",
"lmInformMessage":"Record your message after the beep. To Finish,hang up",
"lmInvalidMessage":null,
"lmLongMessage":null,
"lmSelectMessage":null,
"lmDeleteMessage":null,
"lmSaveMessage":null,
"lmGoodbyeMessage":null,
"instance_id":"100",
"lmForceTTS":"0",
"title":"Test Leave-a-message",
"lmOnHangup":"accept",
"created":"1286471300",
"modified":"1286471300",
"lmMaxreclen":"120"
"lmWelcome":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FlmWelcome.mp3",
"lmInform":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FlmInform.mp3",
"lmInvalid":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FlmInvalid.mp3",
"lmLong":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FlmLong.mp3",
"lmSelect":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FlmSelect.mp3",
"lmDelete":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FDelete.mp3",
"lmSave":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FlmSave.mp3",
"lmGoodbye":"freedomfone%2Fleave_message%2F100%2Faudio_menu%2FlmGoodbye.mp3"
        }
}]
```

Messages

Accepted methods: **GET**

Method messages($instance_id) :
API to read the messages of all existing Leave-a-message services, or messages specific Leave-a-message service if message_id is supplied

Attributes
- instance_id : instance of Leave-a-message service
- id: id of message
- user_id: id of message author
- category_id: id of message category
- tag_id: id of message tag
- rate: message rate {1-5}
- new: message status {0-1}
- quick_hangup: Message left by quick hangup, or complete hangup (boolean)

CURL general usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/messages/%instance_id%/ -d
"id=1&user_i=2&category_id=3&tag_id=3&rate=4&new=1&quick_hangup=true"
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/messages/100/ -d
"id=1&user_id=60&category_id=1&rate=1&new=1&quick_hangup=true"
```

Example Response:
```
HTTP/1.1 200 OK
Date: Wed, 08 Jun 2011 17:58:57 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
X-Powered-By: PHP/5.2.4-2ubuntu5.12
Content-Length: 776
Content-Type: text/html
```

```
[{"Message":
      {
      "id":"1",
      "sender":"55566678",
      "title":"No title",
      "rate":"1",
      "file":"freedomfone/leave_message/100/messages/efb25e98-0ce6-11e0-b030-
e123b6921c64.mp3",
      "category_id":1,
      "created":"1292924705",
      "modified":"1307552339",
```

```
        "url":"http%253A%2F%2F192.168.1.10%2Ffreedomfone%2Ffreedomfone
%2Fleave_message%2F100%2Fmessages%2F",
        "new":"0",
        "status":"1",        //known as New
        "length":"19",
        "instance_id":"100",
        "user_id":"60",
        "comment":"Great message",
        "quick_hangup":"true"
        },
        "Category":{
            "id":1,
            "name":"Songs",
            "longname":"African songs"
        },
        "User":{
            "id":"60",
            "name":"Fred",
            "surname":"Freddy-son",
            "email":"fred@freedomfone.org",
            "skype":"fred.freedomfone",
            "organization":"freedomfone",
            "created":"1307459968",
            "modified":"1307451165",
            "count_poll":"5",
            "count_ivr":"20",
            "count_lam":"15",
            "count_bin":"1",
            "count_callback":"2"
            "first_app":"poll",
            "first_epoch":"307420002",
            "last_app":"bin",
            "last_epoch":"1307460002",
            "acl_id":"1",
            "new":"0",
        },"
        "Tag":[{
            "id":"1",
            "name":"Food",
            "longname":"All about food",
            "MessagesTag":{
                "id":"1",
                "message_id":"1",
                "tag_id":"1"
            }
            }]
        }]
```

Categories

Accepted methods: **GET**

Method categories($id) :
API to read all message categories, or a specific category if id is supplied.

Attributes

- id : category id

CURL general usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/categories/%id%/
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/categories/2
```

Example Response:

```
HTTP/1.1 200 OK
Date: Wed, 08 Jun 2011 17:58:57 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
X-Powered-By: PHP/5.2.4-2ubuntu5.12
Content-Length: 67
Content-Type: text/html

[{
"Category":
    {
    "id":"2",
    "name":"food",
    "longname":"all about food"
    },
}]
```

Tags

Accepted methods: **GET**

Method tags($id) :
API to read all message tags, or a specific tag if id is supplied.

Attributes
- id : tag id

CURL general usage:
    curl --digest -u username:password -i -H "Accept: application/json" -X GET
    http://127.0.0.1/freedomfone/api/tags/%id%/

CURL example usage:
    curl --digest -u username:password -i -H "Accept: application/json" -X GET
    http://127.0.0.1/freedomfone/api/tags/2

Example Response:

    HTTP/1.1 200 OK
    Date: Wed, 08 Jun 2011 17:58:57 GMT
    Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
    X-Powered-By: PHP/5.2.4-2ubuntu5.12
    Content-Length: 61
    Content-Type: text/html

    [{
    "Tag":
        {
        "id":"2",
        "name":"Music",
        "longname":"song contest"
        }
    }]

Services

Accepted methods: **GET**

Method services($type) :
API to retrieve Freedom Fone services based on type of service.

Attributes
- type (string): type of service (lam, ivr)

CURL Usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/services/%type%
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/services/ivr/
```

Example Response:
```
HTTP/1.1 200 OK
Date: Wed, 15 Jun 2011 10:38:38 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
X-Powered-By: PHP/5.2.4-2ubuntu5.12
Content-Length: 516
Content-Type: text/html
```

```
[{"IvrMenu":
    {
    "id":"1",
    "instance_id":"100",
    "title":"Cholera",
    "message_long":"",
    "message_short":"",
    "message_exit":"",
    "message_invalid":"",
    "file_long":"1. Welcome. cholera_menu_welcome.wav",
    "file_short":"2. Instructions. cholera_menu_options_160610_final.wav",
    "file_exit":"3. Goodbye. cholera_goodbye.wav",
    "file_invalid":"4. Invalid. cholera_invalid_selection.wav",
    "created":"1292924823",
    "modified":"1292927669",
    "mode_long":"0",
    "mode_short":"0",
    "mode_exit":"0",
    "mode_invalid":"0",
    "switcher_type":"0",
    "ivr_type":"ivr"
    }
}]
```

CDR

Accepted methods: **GET**

Method cdr() :
API to read CDR based on start date, end date, type, caller, title, and application.

Attributes
- start time (int): epoch start time
- end time (int): epoch end time
- caller_number (int): phone number
- application (string): application type {bin, poll, lam, ivr, callback}
- service (int) : a four character long numeric string unique for a certain instance of a service {2100-2119} for LAM, and {4100-4119} for IVR. Can only be used if "application" is stated.
- user_id(int): user id
- limit(int): number of CDR to retrieve (default 100)
- page(int): which page to retrieve (default 1).

CURL general usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/cdr/ -d
"&caller_number=004612456&application=ivr&service=4100&user_id=1&limit=100&
page=1"
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/cdr/ -d
"application=lam&service=2100&start_time=1305294500&end_time=1305294600"
```

Example Response:
```
HTTP/1.1 200 OK
Date: Wed, 15 Jun 2011 10:26:02 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
Content-Length: 292
Content-Type: text/html

[{"Cdr":{
"id":"198",
"channel_state":"CS_ROUTING",
"epoch":"1305294525",
"call_id":"b8d55690-7d67-11e0-a31c-f7b98c96b6c8",
"caller_name":"OPENVZ10",
"caller_number":"1008",
"extension":"2100",  //known as service
"application":"lam",
"proto":"sip",
"length":"4",
"user_id":null,
"title":"Default LAM",
"quick_hangup":null
}}]
```

Callers

Accepted methods: **GET**

Method users($id) :
API to read all callers, or a specific caller if user_id is supplied.

Attributes
- id(int): user id

CURL general usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/users/%id%/
```

CURL example usage:
```
curl --digest -u username:password -i -H "Accept: application/json" -X GET
http://127.0.0.1/freedomfone/api/users/60
```

Example Response:

```
HTTP/1.1 200 OK
Date: Wed, 15 Jun 2011 10:56:55 GMT
Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
X-Powered-By: PHP/5.2.4-2ubuntu5.12
Set-Cookie: CAKEPHP=738b4e0f58993992d6473dafa6351f25; path=/freedomfone
P3P: CP="NOI ADM DEV PSAi COM NAV OUR OTRo STP IND DEM"
Content-Length: 585
Content-Type: text/html

[{"User":
    {
    "id":"60",
    "name":"Fred",
    "surname":"Fredson",
    "email":"",
    "skype":"",
    "organization":"",
    "created":"1307459968",
    "modified":"1307978212",
    "count_poll":null,
    "count_ivr":null,
    "count_lam":null,
    "first_app":"",
    "first_epoch":null,
    "last_app":"bin",
    "last_epoch":"1307460002",
    "acl_id":"1",
    "new":"0",
    "count_bin":"1",
    "count_callback":"2"},
    "PhoneNumber":[{
    "id":"19",
    "user_id":"60",
    "number":"263222"
}]
    "PhoneBook":[{
```

```
        "id":"1",
        "name":"default",
        "description":"default",
        "PhoneBooksUser":
                {"id":"4",
                "user_id":"60",
                "phone_book_id":"1"
                }
    }]
    }]
```

System

Accepted methods: **GET**

Method system() :
API to read system settings and software versions.

CURL general usage:
```
    curl --digest -u username:password -i -H "Accept: application/json" -X GET
    http://127.0.0.1/freedomfone/api/system/
```

Example Response:

```
    HTTP/1.1 200 OK
    Date: Wed, 15 Jun 2011 16:42:31 GMT
    Server: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.12 with Suhosin-Patch
    X-Powered-By: PHP/5.2.4-2ubuntu5.12
    Content-Length: 522
    Content-Type: text/html

    [{"System"
        {
        "dispatcher_version":"2.0",
        "fs_version":"FreeSWITCH Version 1.0.5-20100223-0400 (16729M)",
        "apache_version":"Apache%2F2.2.8+%28Ubuntu%29+PHP%2F5.2.4-
        2ubuntu5.12+with+Suhosin-Patch",
        "mysql_version":"5.0.51a-3ubuntu5.5",
        "freedomfone_version":"2.5",
        "svn_rev":"926:1391MS",
        "operative_system":{
                    "operative_system":"Linux",
                    "release":"Ubuntu 8.04.4 LTS",
                    "name":"hardy"
                    },
        "language":"English",
        "domain":"http%3A%2F%2Fdemo.freedomfone.org",
        "ip_address":"91.226.180.10",
        "timezone":"Africa%2FHarare",
        "prefix":"263",
        "country":"Zimbabwe"
        }
    }]
```