# MERIDIAN BEACON MAP CHANGER

#  No IPHONE REQUIRED

# No SMARTPHONE REQUIRED

## Description

Meridian **map-changer** is a script relying on the meridian API, which, given a meridian location-id (read a meridian account) and a token for authentication let you change a beacon from a map to another.

## Use cases

* The original use case comes from the fact I had registered the beacons before uploading a new map to Meridian, so the beacons were not associated to the correct map. The registering phase led me borrowing a iPhone from a colleague (because I am a very happy owner of an Android phone)… and I wanted to avoid bothering him again…
* Another use case concerns PoC: it might be necessary to reassign some beacons to a new map and if you don’t have a iPhone you can’t do even that…
* Yet another case is that you are not close to the beacons: the beacon App requires an iPhone but also to be close the beacon to reassign it!

## Disclamers

* No, **map-changer** cannot “onboard” a new beacon, each new beacon has to be already associated to your location using the Beacon App that only exist on iPhone
* No, **map-changer** cannot change tags of map for now (maybe in the future)
* No, **map-changer** cannot move a beacon from a location to another, only between to maps of the same location
* No, **this is not a product** and it has no warranty of anything suiting for your need, for that reason it is released under the GPLv3
* **Yes, you can modify and adapt map-changer** at your will but need to be compliant with the GPLv3: <https://www.gnu.org/licenses/gpl-3.0.en.html>

## Requirements

* A linux/MacOS X computer with the curl program available **or** a windows PC with Cygwin with curl installed in.

References:

* Cygwin <http://www.cygwin.com/>
* Curl <https://curl.haxx.se/>

## Thanks

Thanks to Vincent Blavet during a discussion, for having let me realized that I had overlooked what was possible to do with the meridian API.

## Where to get map-changer?

Here embedded in this document:

(under Windows, better read the file using wordpad) 

## Let’s rock!

### Obtain your Location-id (your account number)

Connect your web browser to the Meridian Editor: <https://edit.meridianapps.com/login>

login with your credentials

select the location of the beacon(s) you want to change of map

the **location-id** is available in the URL that then shows on your browser:

[https://edit.meridianapps.com/apps/**<location-id>**/versions/1/dashboard/](https://edit.meridianapps.com/apps/%3Clocation-id%3E/versions/1/dashboard/)

Or click on the bottom left menu “location” see the screenshot below:



Keep this location-id for further references

### Obtain a API token

While still logged on the Meridian Editor (and thus while your browser has still a cookie to authente to the portal) modify the URL by the following one and hit the <enter> key for validation:

<https://edit.meridianapps.com/api/tokens>

You should see your browser displaying a small json snippet of the following form:

"results": [

 {

 "token": "xxxxxxxxxxxxx",

 "created": "2018-02-08T10:05:39.049300",

 "email": "your@email"

 }

 ]

 Grap **token** string, here the **xxxx** part an keep it for the next step (without the quotes)

## Using map-changer

In a terminal, run the command without argument to have a view of its syntax:



The command that operates the change is the latest syntax:

**map-changer set-map <location-id> <token> <beacon-mac> <new-map-id>**

## Notes:

You can get the **beacon’s mac** address **from the Meridian Edito**r (menu beacons then select “list” on the top right of the window), or you can run **map-changer** with the argument **list-beacons** followed by the location-id you already have obtained previously:



You can get the **map identifiers** of the location from the Meridian editor (menu MAPS, then select a map and read the URL) or run **map-changer** with the argument **list-maps**

