NAME

ocli – OwnTracks command-line interface GPS publisher

SYNOPSIS

ocli [*parameter-file ...]*

DESCRIPTION

ocli is the OwnTracks command line interface publisher, a small utility which connects to **gpsd** (the inter-
face daemon for GPS receivers) and publishes position information in OwnTracks JSON format to an
MQTT broker in order for compatible software to process location data. **ocli** reads GPS data from an
installed **gpsd** daemon, and as soon as it has a fix publishes an OwnTracks payload. **ocli** will subsequently
publish a message every `OCLI_INTERVAL` seconds or when it detects it has moved `OCLI_DISPLACE-`
`MENT` meters.

ocli operates with a number of defaults which you can override using environment variables.

Parameter files

Any number of path names can be passed as *parameter-file* arguments to **ocli .** A single line is read from
each of the files and added to the OwnTracks JSON payload as elements with the key name of base name of
parameter-file. If the file is executable, the line is read from its standard output.

```
echo 27.2 > temperature
ocli temperature /usr/bin/uname
```

will produce a payload which might look like

```
{
  "_type": "location",
  "tst": 1577654651,
  "lat": 48.856826,

  "temperature" : "27.2",
  "uname": "FreeBSD"
}
```

Keys obtained from *parameter-file*s must not overwrite JSON element names define by **ocli**, so, for exam-
ple, a file called `lat` will be silently ignored as it would clobber the JSON `latitude` element.

Control

It is possible to control **ocli** using a subset of OwnTrack's `cmd` commands.

```
t=owntracks/jpm/tiggr/cmd
mosquitto_pub -t $t -m "$(jo _type=cmd action=reportLocation)"
```

The following commands are currently implemented:

reportLocation   causes **ocli** to publish its current location (providing **gpsd** has a fix). **ocli** sets `t:m` in the
                 JSON to indicate the publish was manually requested.

dump   causes the program to publish its internal configuration to the topic *basetopic*/`dump` as a
                 `_type: configuration` message.

setConfiguration permits setting some of **ocli**'s internal values (`locatorInterval` and `locatorDis-`
                 `placement`). Note that these do not persist a restart.

ENVIRONMENT

ocli is operates with a number of compiled-in defaults which can be overridden using environment vari-
ables:

BASE_TOPIC   The MQTT base topic defaults to `owntracks`/*username*/*hostname*, where *username* is
             the name of the logged in user, and *hostname* the short host name.

MQTT_HOST   The MQTT host defaults to `localhost`.

MQTT_PORT   The MQTT port is `1883`.

OCLI_CLIENTID
> The MQTT clientId is set to `"ocli-`*username*-*hostname*`"`.

GPSD_HOST   The address/hostname of the host on which **gpsd** is listening defaults to `localhost`.

GPSD_PORT   The **gpsd** port nummber defaults to `2947`.

OCLI_TID   The two-letter OwnTracks tracker ID defaults to not being used.

OCLI_INTERVAL
> The interval after which **ocli** will publish a location position defaults to 1 second and can be changed dynamically (see above).

OCLI_DISPLACEMENT
> The distance after which **ocli** will publish a location position defaults to 0 meters and can be changed dynamically (see above).

OCLI_CACERT   The path to a PEM-encoded CA certificate which **ocli** uses to enable TLS/SSL. It is likely that the default MQTT port will need to be changed at the same time.

BUGS
Very likely.

AUTHOR
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SEE ALSO
jo(1), **mosquitto_pub**(1), **https://github.com/owntracks/ocli**, **https://owntracks.org**, **gpsd**(8).