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 it publishes an OwnTracks payload. **ocli** will subsequently publish a message every `OCLI_INTERVAL` seconds or when it detects it has moved `OCLI_DISPLACEMENT` meters.

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

Any number of path names can be passed as *parameter-file* arguments to **ocli** which interprets each in terms of an element which will be added to the OwnTracks JSON. The element name is the base name of the path. If a path points to an executable file the first line of standard output produced by that executable will be used as the key's value, otherwise the first line read from the file. In both cases, trailing newlines are removed from values.

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

will produce a payload which might look like

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

   "temp" : "27.2",
   "platform": "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.

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 60 seconds 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
Probably.

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