NAME
ocli – OwnTracks command-line interface GPS publisher

SYNOPSIS
ocli [-v] [*parameter-file ...]*

DESCRIPTION
ocli is the OwnTracks command line interface publisher, a small utility which connects to **gpsd** (the interface 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 example, 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 locatorDisplacement). Note that these do not persist a restart.

OPTIONS
-v   Show version.

-s   By default, **ocli** prints informational messages to *stdout*. This option silences those.

ENVIRONMENT

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

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.

MQTT_USER   The username to use to authenticate with the MQTT broker.

MQTT_PASS   The password to use to authenticate with the MQTT broker.

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), **pledge**(2), **unveil**(2), **gpsd**(8), **https://owntracks.org**