

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_DISPLACEMENT` 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-files* 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:

<code>reportLocation</code>	causes ocli to publish its current location (providing gpsd has a fix). ocli sets <code>t:m</code> in the JSON to indicate the publish was manually requested.
<code>dump</code>	causes the program to publish its internal configuration to the topic <i>basetopic/dump</i> as a <code>_type: configuration</code> message.
<code>setConfiguration</code>	permits setting some of ocli 's internal values (<code>locatorInterval</code> and <code>locatorDisplacement</code>). Note that these do not persist a restart.

OPTIONS

<code>-v</code>	Show version.
<code>-s</code>	By default, ocli prints informational messages to <i>stdout</i> . This option silences those.

ENVIRONMENT

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

BASE_TOPIC	The MQTT base topic defaults to <code>owntracks/username/hostname</code> , where <i>username</i> is the name of the logged in user, and <i>hostname</i> the short host name.
MQTT_HOST	The MQTT host defaults to <code>localhost</code> .
MQTT_PORT	The MQTT port is 1883.
OCLI_CLIENTID	The MQTT clientId is set to <code>"ocli-username-hostname"</code> .
GPSD_HOST	The address/hostname of the host on which gpsd is listening defaults to <code>localhost</code> .
GPSD_PORT	The gpsd port number 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>