

Instructions for collecting traces (G-NET Pro App)

Steps:

1. Go to Settings -> Data Sequence: Uncheck Upload, Check Download
2. Enter download URL of file to download
3. Set download time to 1000 seconds and 5 seconds for pause interval
4. Go to Settings -> Log Parameters and set Time Interval to 1

After preceding steps, you can start collecting traces:

1. Menu -> More -> Start Data Sequence
2. Menu -> Start Log

After finishing:

3. Menu -> Stop Log
4. Menu -> More -> Stop Data Sequence

Instructions for parsing G-NET Logs

G-NET Track Pro creates a folder for every trace. A script can be used to trace individually or in bulk. Before running script, **config.ini** file needs to be modified accordingly.

The most important fields are **FolderInput**, **FolderOutput** under Input and Output section, respectively. For input folder specify the folder containing trace(s). For output folder, specify a path where to save parsed traces.

Next, in Location section **Tokens** field needs to be set with tokens obtained from opencellid.org. Be aware that database allows only 5000 requests per day and 100 requests for querying alternative databases (if record can't be found in primary database). You can use multiple tokens to alleviate this problem. Also, a script will keep a local database of requested locations to minimise sending requests.

For Anonymisation section you need to specify alternative names for network operators: e.g., A->B will change operator name A to B.

You can modify other fields as well, depending on your demands.

After finishing configuration run script:

python gnet_parse_raw_traces.py or python gnet_parse_raw_traces.py -cp path to config file if config file is not in same folder

Link: Code for parsing raw traces [Download](#)

You will need pandas, numpy, requests and pickle libraries. For any questions, feel free to contact us at [Darijo Raca](#)