GPS Client Manual

1. Installing Required Softwares

This manual is using **Ubuntu 12.04 LTS** Linux distribution and assuming build tools (GCC C compiler, make, etc.) has been previously installed.

1.1 GPSD

Issue this following command to install gpsd related packages:

```
$ sudo apt-get install gpsd libgps-dev python-gps
```

Configure gpsd to run on a specified GPS device such as through USB (/dev/USBX) or serial port (/dev/ttySX), for example to run GPSD on a USB GPS:

```
$ gpsd -b -S 2947 -N /dev/ttyUSB0
```

Alternatively, to run GPSD without having a real GPS device, use **gpsfake** program (shipped by python-gps package) with NMEA log (gps.log) file included in gpscomm tarball.

```
$ tar xzf gpscomm.tar.gz
$ cd gpscomm
$ gpsfake gps.log
```

Then GPSD should be started automatically and ready for streaming.

1.2. PostgreSQL

Issue these following commands to install PostgreSQL related packages:

```
$ sudo apt-get install postgresql postgresql-client libpq-dev
$ sudo /etc/init.d/postgresql start
```

Refer to **Database Deployment** document to deploy related database tables.

2. Build, Configure and Run

The supplied gpsclient tarball already contain gpsclient binary file in order to just running, goto section 2.3 Running to start gpsclient without building.

2.1 Build

Assuming build tools have been installed, issue these following command to build:

```
$ tar xzf gpscomm.tar.gz
$ cd gpscomm/gpsclient
$ make
```