

PBL AIR

Passive Basestation Location

Overview

PBL Air performs the same tower location functions as PBL Ground, by using airborne surveys.

This system requires the ICS-5xx family of systems, DCode Pro, and two additional supporting applications. One of these applications, the Collection app, takes a list of frequencies to be scanned as input and collects raw position estimation data. The second application, the Analysis app, processes that raw data and produces a .pbl file with the same format as the ground-based .pbl files generated by DCode Pro.

Usage

Frequency Lists

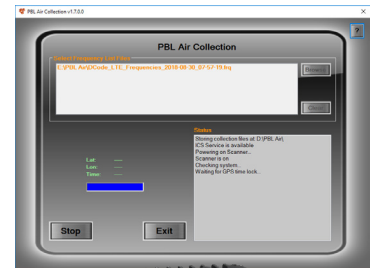
The first step of the PBL Air process is to survey the area with DCode Pro to construct frequency lists to be used by the Collection app. The lists are stored in files with the extension .frq.

Collection

After the frequency survey is complete, DCode Pro can be shutdown (without powering down the ICS system) and the Collection app started. When the airborne survey is complete, the Collection app can be shut down and the ICS unit powered off.

Analysis

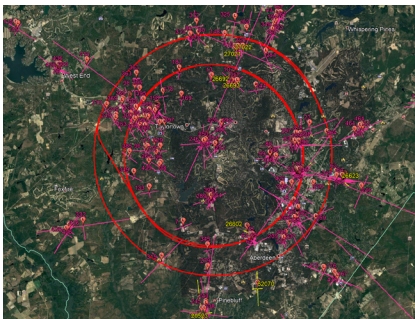
After the airborne survey is complete, the collected data is post-processed using the Analysis app. This step does not have to be performed while still airborne. This step produces a file with the same format/contents as a ground-based survey PBL file from DCode Pro.



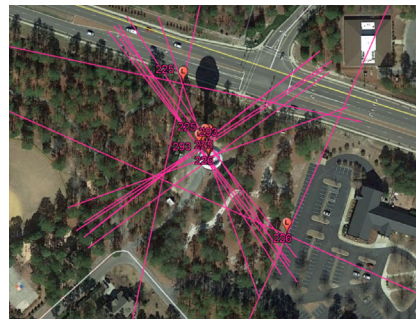
Features

- Simultaneous calculations for WCDMA, GSM & LTE Sectors
- 100% passive measurement
- Exported Data is compatible with most mapping software
- High altitude collection of data up to 10,000 feet
- Flights at 8,500 feet have produced results in which 90% of the towers were located to within 200 meters of their actual locations

Note that the PBL Air feature will only be available on systems with a valid option key.



PBL Air Results: Altitude 5,500 ft.



PBL Air Results: Altitude 9,500 ft.



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