

Invention Title

Wireless signal strength and characteristic mapping using drones

Invention Summary

With wireless becoming pervasive (including Cable Wi-Fi everywhere initiative), drones could be used to measure wireless (including, but not limited to Wi-Fi or LTE) signal strength and characteristics in 3-dimensions, within or outside a building.

Invention Description

The drone will need to have a signal strength meter and a method to store the exact location information in 3 dimensions. This information could be stored locally on a drone, or passed in real time to a ground station.

This method will enable operators to identify blind and dead spots around buildings and in cities. Such operation can help operators identify locations to put access points or other transceiver equipment. This service could one day potentially enable Wi-Fi handoff and allow people to make Wi-Fi / LTE roaming calls as well.

Invention Commercial Value/Customers

This is a cheaper way to ensure ubiquitous wireless availability in a locality.

Invention Differences

Drones have not been used for this purpose. Currently it is done manually and using vehicles on roads.