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Scanner Yammer

CellAntenna Corporation

CellAntenna International has its roots in radio frequency communication. The transmission of signals has tangible consequences. We deliver services and products that support the safety and security of military, law enforcement, corrections institutions, and ports of commerce. CellAntenna introduces a new product line as a front-end solution for radio platforms to increase the range and performance of tactical SDR-based RF systems. This technology allows for wide-band and software configurable capability and supports a vast array of applications including network scanning, signal jamming, IMSI catching and private networks.

Project Overview

The *MGTron GUI* is designed to send and receive commands and information back and forth from the *MGTron Signal Generator*. The graphical user interface (GUI) is a medium in which any user is able to utilize the accompanied signal generator. The purpose of the GUI is to enable ease of use of the *MGTron Signal Generator*.

Development Goals

The following section provides a description and estimate.

Elucidate the wifi scan results

- Implement a separate window that lists the following information for each result:
 - Device ID's
 - Device type
 - MAC address
 - SSID (WiFi name)
 - Bluetooth
 - Target ,specifically, from the results or blanket send
 - RSSI levels of devices on a scan so we can gauge possible distances or interferences from device.
 - Device mapping based on RSSI
 - Keep previous scan results

Resource availability

- Algorithm to actively hunt and block wifi in realtime.

Lack of power

- In our testing we feel like we needed more power transmitting to keep our distance from our target.
- Some of the time we had to be close to be covert.

Physical box

- The lights on the outside of the case are too bright, they light up the interior of our vehicle at night.
 - Recommend dimmer lights or a cover to conceal them.
- Would like the ability to have external antennas as well for the simplicity of being able to close the case without pinching the wires or having to unhook them when not using the omnidirectional antenna.

Time Details

Elucidate the wifi scan results	10 hrs
Bluetooth	12 hrs
Target specifically or blanket send	6 hrs
Distance algorithm	1 hr
Device mapping based on RSSI	??? hrs
Cache scan results	5 hrs
WiFi Algorithm	16 hrs

Total Hours 50 hrs

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