

NARRATIVE STATEMENT

We are building a WiMAX systems based on the IEEE 802.16 specifications. It is an OFDM system that can use several different M-ary PSK and M-ary QAM modulation schemes. It will also use a 10MHz bandwidth signal as specified in the 802.16 standards.

Furthermore, this WiMax system will have mesh networking capabilities. Therefore, it will be imperative to test this mesh functionality over the air for validation purposes and to demonstrate the systems capabilities to potential customers. The system will also need to be tested and demonstrated to work as a mobile application.

Currently, WiMax is a relatively new standard, which has huge amount of potential and growth; specifically for non-line-of-sight mesh applications. Experimenting and developing this technology will be extremely important for the advancement of next generational communication systems, both at the research and commercial level.

The majority of this experimentation will be within an office building. Periodically, we will move the test outdoors for demonstration purposes.

We are also providing the name and phone number contact, should any harmful interference be detected. We are providing this information as a “stop-buzzer” information. The contact for the experiment is Eric Silvers at (410) 290 – 3918. His email address is esilvers@filss.com