

Narrative

a) The complete program of research and experimentation proposed including description of equipment and theory of operation.

Northrop Grumman has invested in integrating leading wireless broadband communications networks for its customers. The wireless networks have to be tested to verify the system limitations and capabilities. The objective is to implement wireless research to enhance the ability to provide leading edge wireless capabilities to various customers.

The purpose of this program is to test a converged, high-speed, secure broadband wireless network. This experiment will use the technology of IP Wireless 3rd Generation (3G) UMTS hardware. Once in operation, this site will be used to demonstrate capabilities to federal, local, and state agencies as well as public safety/law enforcement personnel.

b) The specific objectives to be accomplished

- 1) Integrate various wireless solutions into one communications median
- 2) Demonstrate the concept of a wireless network that can simultaneously transmit voice/data/video
- 3) Build on the existing relationships already established with various federal, state, and local customers

c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion or utilization of the radio art or is along lines not already investigated.

This type of wireless network that provides information sharing for a situational awareness/ decision/making system has not been deployed with this type of capability on a large scale. This network will test the ability for expansion as well as integration of various wireless networks into one communications median.