

Narrative

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

The United States Homeland Security Advanced Concept Technology Demonstration (HLS ACTD) has an objective to build a broadband wireless network in Thibodaux Louisiana. The purpose is to enhance protection for critical infrastructures. Improve the communications between the Department of Defense and the local region. Improve national awareness of incidents in South Louisiana. Improve national awareness of incidents in South Louisiana. Build a joint response incident management. Improve communications within the local community.

The purpose of this program is to provide a converged, high-speed, secure broadband wireless network. This experiment will use the technology of IP Wireless 4th Generation (4G) UMTS hardware. Once in operation, this site will be used to demonstrate this to federal, local, and state agencies as well as public safety/law enforcement personnel.

b) The specific objectives to be accomplished

- 1) Sharing information across governmental boundaries: local to state to DoD
- 2) Ability to Monitor and Control all resources being deployed (DoD 1st Responders when designated by the United States NORTHCOM
- 3) Sharing resources across organizational boundaries (DoD/DHS/DoJ)
- 4) Increased functionality using enhanced day-to-day business processes
- 5) Improve Public Safety as well as local Critical Infrastructure Picture and industrial security
- 6) Build on the existing DoD relationship already established in Louisiana
- 7) DoD attains a significant higher level of wireless HLS capability
- 8) Share Operational Picture (Fully Integrated in the NORTHCOM Command Structure)
 - Horizontal across all local Emergency Operation Centers and DoD responders
 - Vertically with State & Federal; Civil & Military agencies
- 9) Regional Interoperable Communications (all war fighters and first responders)
- 10) Performance evaluation for DoD Civil Support and Emergency Preparedness
- 11) Demonstrate the concept of a wireless network that can simultaneously transmit voice/data/video

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. This will be a new intervention of combining the federal, local and state including public safety personnel on one communications medium.