

Response to Question 7:
Experiment Description

- a) The purpose of this experimentation is to demonstrate a converged, high-speed, secure broadband wireless network. This experiment will combine the technology of Flarion's 4th Generation (4G) hardware with the Land Mobile Radio ("LMR") hardware manufactured by M/A-COM. (Northrop Grumman has separately applied for Commission authorization to operate the M/A-COM equipment.) Because both technologies utilize Internet Protocol ("IP"), LMR hardware is able to interoperate with 4G wireless technology. Once in operation, this site will serve as the Wireless Center for Excellence for Northrop Grumman Information Technology and will be demonstrated to public safety/law enforcement personnel at the local state/federal levels of government.
- b) Specific objectives sought to be accomplished include:
1. Demonstrate interoperability between 4th Generation IP hardware (Flarion Technologies) and legacy Land Mobile Radio equipment (M/A-COM);
 2. Demonstrate the concept of a "converged" wireless network that can simultaneously transmit voice/data/video;
 3. Demonstrate that this wireless technology is in fact secure at the AES-DES level.
- c) This has not been investigated by anyone in the wireless industry to date and is critical for the Department of Homeland Security (DHS). Mr. Steve Cooper, the Chief Information Officer of DHS, has repeatedly stated that he wants the government to deploy a "converged, high-speed wireless network." This experiment would prove Mr. Cooper's concept.