



**Public Safety
Spectrum Trust**

Chief Harlin R. McEwen

Chief of Police (Ret) City of Ithaca, NY
FBI Deputy Assistant Director (Ret) Washington, DC

**Chairman
Public Safety Spectrum Trust**



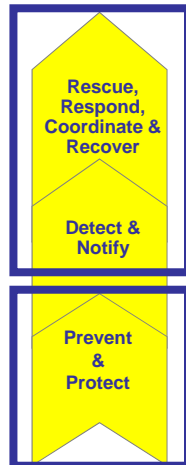
Chairman
Communications & Technology Committee
International Association of Chiefs of Police

**Federal Communications Commission
Public Safety and Homeland Security Bureau**

**National Broadband Plan
Workshop Panel 1
First Responders Using Broadband
Technologies to Advance Public Safety**

August 25, 2009

Expanding Mission of Public Safety



Data Centric Communications

As the public safety mission expands, high speed wireline and wireless data networks are becoming more essential to support bandwidth intensive data, video and multimedia that will include VoIP services to augment and backup traditional land mobile mission critical voice systems

Voice Centric Communications:

Today, traditional land mobile voice and basic data service to support critical information transfer is a fundamental requirement for the public safety mission

Public Safety Broadband

In the past 10 years, public safety information sharing has become increasingly important. Not only are agencies sharing information from fixed office computer terminals but they are increasingly moving to wireless delivery of data for users in the field. For the most part, public safety agencies are currently limited to commercial wireline and wireless broadband services.

Public Safety Broadband

Public Safety should be able to deploy next generation high speed wireline and wireless data services that deliver not only secure text messages but documents, photographs, diagrams and streaming video.

Public safety cannot rely solely on commercial services because they often are not available when public safety needs them most. Current commercial services also lack the security features, priority access, and coverage needed by public safety.

The public safety goal is to have access to a seamless nationwide broadband system that includes last mile reliable wireless broadband service as envisioned in the currently proposed 700 MHz Nationwide Public Safety Wireless Broadband Network.

The wireless broadband network should include:

1. Broadband data services (such as text messaging, photos, diagrams, and streaming video) not currently available in existing narrowband public safety land mobile systems that will support next generation 9-1-1 and public safety services.
2. A hardened public safety network with infrastructure built to withstand local natural hazards (tornadoes, hurricanes, earthquakes, floods, etc) that would include strengthened towers and backup power with fuel supplies to withstand long term outages of public power sources.

The wireless broadband network should include (continued)

3. Nationwide roaming and interoperability for local, state, and federal public safety agencies (police, fire and EMS) and other emergency services such as transportation, health care, and utilities.
4. Access to the Public Switched Telephone Network (PSTN) similar to current commercial cellular services.
5. Push-to-talk, one to one and one to many radio capability that would provide a back-up to (but not replace) traditional public safety land mobile mission critical voice systems.
6. Access to satellite services to provide reliable nationwide communications where terrestrial services either do not exist or are temporarily out of service.

Public Safety Broadband

The Public Safety Spectrum Trust will be working with the Federal Communications Commission to make sure that the National Broadband Plan includes information relative to the urgent and unique needs of public safety.