Interoperability / Information Management

Chuck Hagan, Unified Logistics Chief - FDEM

Carla Boyce, Preparedness Section Administrator - FDEM
Florida Interoperable Communications

Chuck Hagan, Program Administrator
Critical Infrastructure and Logistics Section
Overall Systems

- FIN
- EDICS
- MIL-WAVE
- EDWARDS
- MARC
- SAT-TAC
- Mutual Aid Radio Build Out
Florida Interoperability Network (FIN)

- Day-to-day Interoperability
- IP Based Network
- Completely distributed architecture with no central switch and redundancy to insure system services
- Support for all radio frequency bands and proprietary systems
- Secured network with encryption throughout the network
- Scalable components for later expansion as necessary
Florida Interoperability Network (FIN)

- For network users, there are three primary functions available.
  - Ability to patch any two radio talk groups/channels? More can be added with additional pairing. The network can support 4096 radio ports (2048 patches) simultaneously across the network.
  - Ability for each dispatch center to conference with up to seven other dispatch centers.
  - Ability to access radios at sites on the network? Remote dispatch positions can assess radio resources across the network.
- The Dispatcher Application also provides:
  - All functions through pull-down menus and mouse usage
  - Call priorities (nine levels)
  - Views of all active patches and conferences
  - Network status (round trip delay per connection, CPU usage, packet loss rate)
  - Information about remote radio sites (site name, radio type)
  - Status information about remote radio sites (transmitting, receiving or idle)
  - Remote control head to operate selected remote radio sites (ability to turn on/off and change channels/talk groups)
  - Audio replay up to sixty seconds
  - Notifications/log display of all local actions
Emergency Deployable, Interoperable Communications System (EDICS)

- Developed by the State of Florida
- 9 Tactical Field Based Systems
- Transportable Mil-Std shock mount cases and systems
- Multi-Power sources
- ACU-1000 Dual Shelf Interconnect System
  - HF (2 to 30 MHz)
  - SINCGR (30 to 78 MHz)
  - VHF Low (30 to 50 MHz)
  - VHF Aircraft (118 to 136 MHz)
  - VHF High (136 to 174 MHz)
  - VHF Marine (156 to 165 MHz)
  - UHF Low (403 to 433 MHz)
  - UHF High (438 to 470 MHz)
  - 700 MHz.
  - Trunking Type I, II/IIA (800 MHz)
  - Nextel (800 MHz)
  - LTR (800 MHz)
  - Multinet (800 MHz)
  - Cellular (800 MHz)
  - STU-III
  - Satellite
  - VoIP
  - FIN Station
Secure Milwave™ Wireless GSM Communications Network

- COG COOP Package
- Scaleable system ruggedized to Military Standards.
- Its exclusive Data Protocol Management System (DPMS) is the interworking function application that supports NSA Type-1 secure communications including the Sectera Secure GSM cellular phone, Secure Terminal Equipment (STE) and secure Wireline Terminal.
Emergency Deployable, Wide Area Remote Data System (EDWARDS)

- Developed by the State of Florida
  - Now offered by TracStar Systems
- 9 Tactical Field Based Systems – Subset of EDICS
- Transportable Mil-Std shock mount cases and systems
- Multi-Power sources
- Satellite based Internet 4 MB feed (2 Mb up and 2 Mb down)
- Wide Area (5-mile minimum) 802.11S footprint PLUS one 30-mile long shot
- 6 Tactical hand-out kits per system to MESH multiple command vehicles or sites within the footprint or at either end of the long shot.
  - 4 VoIP Telephone circuits per package, 32 lines per system
  - 12-16 data users (8 wired)
- 4.9 MHz MESH Government Secure Networking between field sites
- Crisis Command Software has interoperable desktop, web, and mobile technology that allows the combination of different types of data—like floor plans, demographic information, hazardous material location, evacuation routes, and property information—into one format within and cross discipline
Mutual Aid Radio Communications (MARC)

- 10 Trailer mounted mobile repeaters
  - 5 more being purchased by the UASI’s
- VHF-Hi and 800 MHz, Mutual Aid frequencies
- 110’ mast
- 125 Handheld radio cache
TAC-SAT PAC

- Developed by the State of Florida
  - Now offered by TracStar Systems
- Tactical field based satellite data and voice “fly-away” packages
- FDEM owns 11 systems
- Additional 25 systems in the state
- Auto deploy / auto acquire system
- 4 VoIP phone lines
- 12 data users
Mutual Aid Radio Build Out

- Mutual Aid Radios have been installed in 85% of the command vehicles in the State
  - VHF Hi Band
  - UHF High Band
  - 800 MHz.
- FDEM also maintains 3 tactical packages
Questions