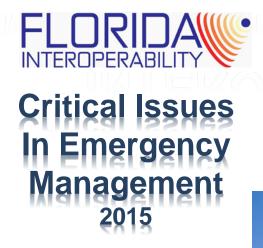
EMERGENCY MANAGEMENT COMMUNICATIONS





Chuck Hagan State Logistics Chief



FLORIDA

ONSE T











OPERATIONAL COMMUNICATIONS





- Mission Area: Response Support
- **Description**: To ensure the capability for timely, redundant communications in support of security, situational awareness, and emergency operations by any and all means available; among and between affected communities in the impact area and response and support forces at appropriate levels.









GOVERNANCE



- Statewide Interoperability Governance Board (SIGB), AKA the Florida Executive Interoperable Technologies Committee (FEITC) – Chuck Hagan, Co-Chair FDEM State Logistics Chief
 - Bill Rogers, Co-Chair Director DMS Division of Telecommunications
 - The responsibilities of the SIGB/FEITC are:
 - Oversight and management of interoperable technology issues.

• State Interoperable Communications Committee

- Greg Holcomb, Co-Chair Lake County E911 Coordinator and Division Manager
- Carlton Wells, Co-Chair DMS Communications Engineer Supervisor
- Facilitated a wide array of projects, all of which serve the primary goal to enhance interoperable communications.
- These include the development of Tactical Interoperable Communications Plans, construction of a statewide interoperability network, placement of mutual aid stations on all bands throughout the state, deployment of various transportable communications systems, placement of radio equipment in Mobile Communications/Command vehicles throughout the state, and acquisition of portable radios caches.
- Statewide Interoperability Coordinator (SWIC)
 - Phil Royce, SWIC FDEM Communications Branch Manager, Logistics Section
 - The responsibilities of the SWIC are:
 - Interfaces with federal, state and local agencies regarding interoperable communication issues.
 - Flow of information regarding interoperable communication issues between the federal government, DSOC, SIGB/FEITC and ICC SWG.
 - Responsible for updating and maintaining the Florida SCIP.
- All of the boards, committees and positions listed above work together to ensure that the state continues to move forward in improving interoperable communications throughout the state.











Interoperable Systems

• FIN

-Full Time InterOp System)

- SLERS
 - All RF Radio Bands
- MARC
- EDICS (InterOp System)
- EDWARDS (InterOp Data)
- National Mutual Aid Frequencies
- National EMS Frequencies
- LOCAL Trunked and Non-Trunked Communications Systems (800, UHF, VHF)

Stand Alone Systems

- EMnet (Alert and Notification System)
- NAWAS (Federal / State Alert and Notification System)
- EAS / IPAWS / CMAS / WEA (Alert and Notification System)
- MSAT (Satellite Radio Dispatch and Telephone
- VSAT (Satellite Data and VoIP)
- Military SINCGARS unless through an approved switch





Interoperable Communications Exercises and Training







- February 2010 RADAR at Camp Blanding
- 21 Regional IO Exercises
- February 2013 RADAR II at Camp Blanding
- TRAINING:
 - FIN
 - SLERS
 - EDICS/EDWARDS
 - MARC
 - COM-L
 - COM-T







FIN NETWORK



Regional Domestic Security Task Forces

- The Florida interoperability network (FIN) utilizes Motorola's Motobridge hardware and software. FIN is managed by Florida DMS.
 - Primary components are Operations and Maintenance Center (OMC) servers and System Initiation Protocol (SIP) servers at the system level; and Radio Gateway Units (RGUs), and Dispatcher Application software at the local level.
 - DMS' MyFloridaNet (MFN) service provides the connectivity and redundancy for the network. Other characteristics of FIN are:
- IP-Based Network
- Distributed architecture with no central switch and redundancy to insure 24/7 system services
- Support for all radio frequency bands and proprietary systems
- Secured, encrypted network
- Scalable components for future expansion, if desired
- Motorola's Network management & system maintenance





SLERS



System Description

- Florida's Statewide Law Enforcement Radio System (SLERS) is a single, unified radio network that meets the radio voice communications needs of state law enforcement and other participating agencies throughout the state. SLERS is a 800/700 MHz system consisting of 200 Microwave, RF multi-sites, and RF simulcast sites.
- The SLERS all-digital radio network covers over 60,000 square miles (including 25 miles offshore) with 98% mobile coverage and portable coverage in selected areas.
- Effective interagency, interoperable communications;
- Coordinated communications with local public safety entities;
- Replacement of older, agency-specific systems without duplication of effort.
- In 2006, FDEM was granted permission to establish a State Emergency Management Network on SLERS
 - This replaced the old Civil Defense VHF Low-Band network
- SLERS Radio rollout to counties now affords this interconnectivity across the state that is interoperable with other systems.
- SLERS Training is on line at <u>https://slerstraining.state.fl.us/Welcome/tabid/67/Default.aspx?returnurl=%2fdefault.aspx</u>





ERICS / ERWARRS



- The EDICS System is a tactical field based InterOperable voice communications system consisting of:
 - VHF-low band
 - VHF-high band
 - VHF-Aircraft
 - UHF low band
 - UHF high band
 - Multi-band Radios
 - SLERS
 - Cellular PBX Switches
 - SINCGARS Military (Only under special situations)
 - Satellite Radio Dispatch System
 - 800MHz Trunked Type I, II/IIA, EDACS, and LTR
 - HF Option for future expansion
 - VoIP FIN Bridge from the EDWARDS System Package
- EDWARDS is a tactical field based InterOperable VSAT Satellite Data and









SEPARTMENT P



- The National Warning System (NAWAS) is an automated 4-wire telephone system developed in the 1940's used to convey warnings to <u>United States</u>-based federal, state and local governments.
- 2. NAWAS is managed, operated and fully funded by the <u>Federal Emergency Management</u> <u>Agency</u> (FEMA) and remains the primary system to warn the public of nuclear attack.
- 3. The system is designed to provide protection for lightning strikes so they may be used during storms.
- 4. The interconnecting lines provide protection by avoiding local telephone switches. This ensures they are available even when the local system is down or overloaded.
- 5. Federal NAWAS has major terminals at each state *Emergency Operations Center*.
- State NAWAS includes secondary terminals include County Warning Points, Emergency Operations Centers, <u>National Weather Service</u> field offices and <u>Public-safety answering points</u> (PSAPs).
- 7. NAWAS is used to disseminate warning information for natural and technological disasters to approximately 2200 warning points throughout the continental United States, Alaska, Hawaii and the Virgin Islands.

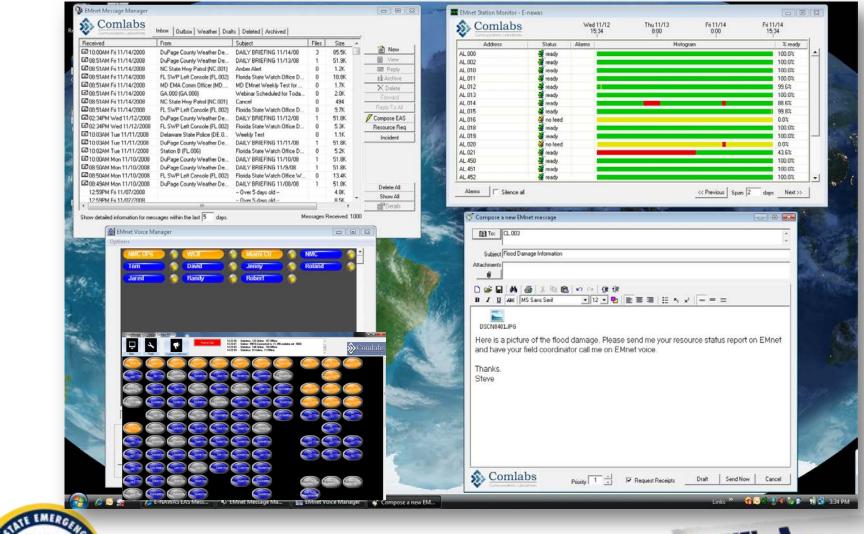




Florida Emergency Management Network

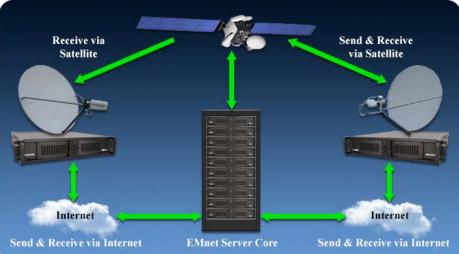
FLORI

SPONSE TEP





Florida Emergency Management Network



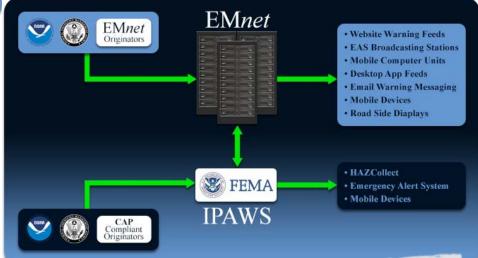


109 Florida EMnet Stations

- 67 Counties
- 28 LP-1 Stations (EAS)
- 3 NPP

PONSE T

- 7 NWS Offices (Weather)
- FLNG X 2
- FDLE X 2 (AMBER Alerts)
- FDEM X 2 (SWP)





EMNet Alert & Warning

- True "All-Hazards" Alert and Warning Data Stream
 - NOAA/NWS
 - EMnet States and Provinces
 - Federal Agencies
 - IPAWS, WEA and PLAN Compliant
- Supports Multiple Languages
- Outdoor Public Alerting (Sirens, Etc.)
 - Florida NOAA iDirect Sites
 - Baker Columbia Liberty Calhoun Gulf Franklin Wakulla Gilchrist – Taylor – Lafayette – Dixie – Hendry - Monroe
- RSS Atom Feeds (CAP Feeds)
- Advanced Notification Features
- EAS is a flexible, survivable, and secure distribution network developed back in the 1950's and modernized over the years.
- NOAA Hazcollect Interface



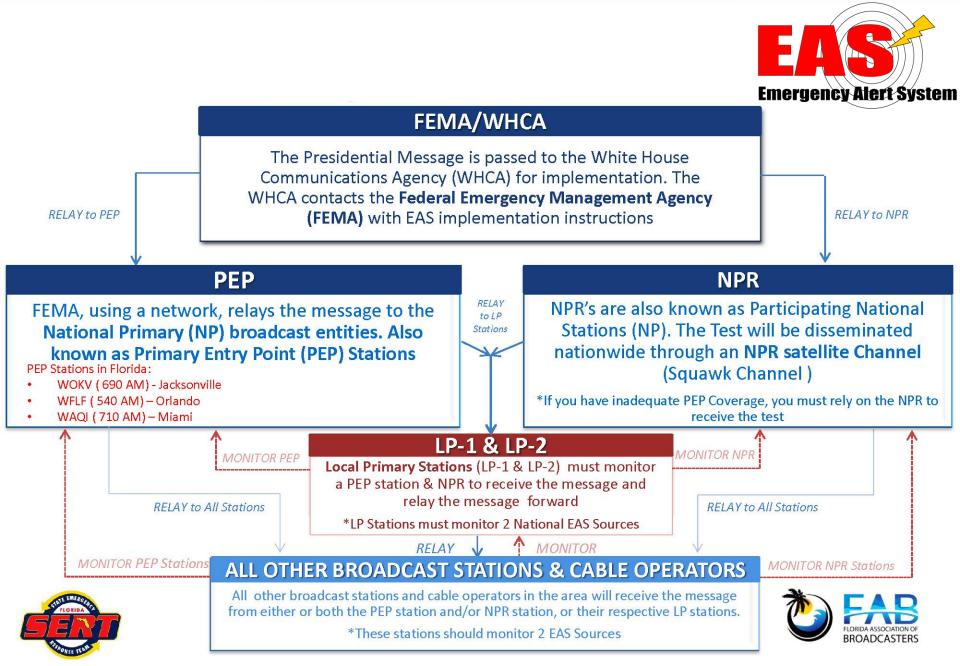








FEDERAL EAS PLAN

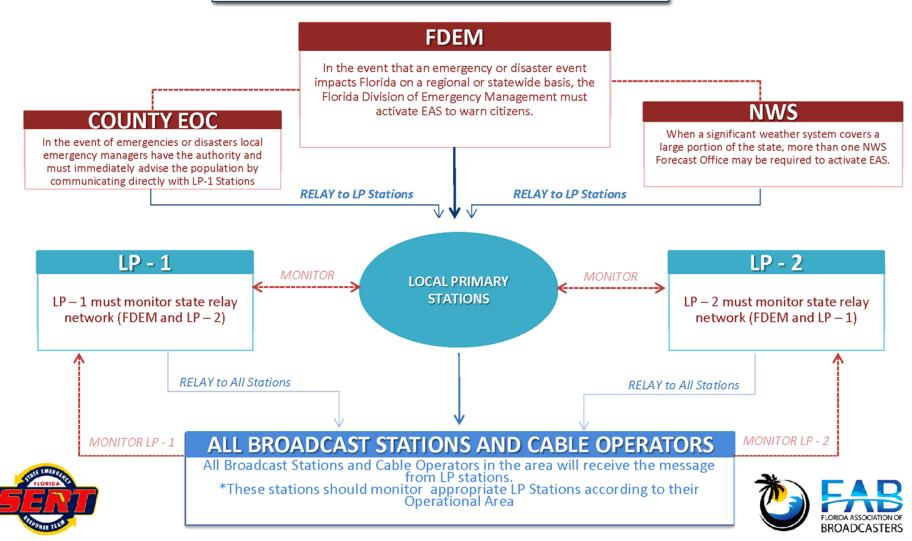


STATE EAS PLAN

EAS ACTIVATION

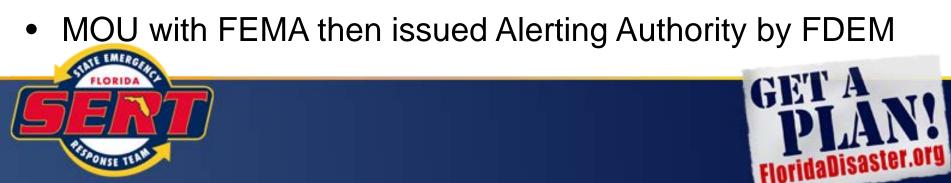
EAS activation is initiated by the Florida Division of Emergency Management (The Governor is authorized to activate EAS via FDEM), or the National Weather Service, or the County Emergency Management Coordinator





NEW ADDITIONS - EMNet

- 2-Years pre-paid service for all
 67 Florida counties
- Second Handset for County EOC
- EAS Origination Software for counties to issue Civil Emergency Messages
 - Users must be trained and certified on an individual basis to initiate an EAS Message
 - User Name and password based



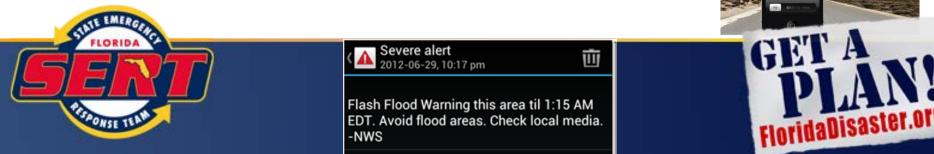
CMAS / WEA

- 5+ National Cell phone carriers have agreed to carry CMAS / WEP so far.
 - Sprint
 - Verizon
 - AT&T
 - T-Mobile
 - U.S. Cellular



Emergency Alert System

- In Florida, all CMAS / WEA targeted alerts will be sent through EMnet.
 - State and County
- EMnet connects through the IPAWS Aggregator









FloridaNet Project FirstNet Status Update

DEM October 2015



FirstNet Project Status Update

 The First Responder Network (FirstNet) Authority was created on February 22, 2012, under the Middle Class Tax Relief and Job Creation Act.



- *FirstNet* is an independent authority within the U.S. Department of Commerce's National Telecommunications and Information Administration.
- FloridaNet is a multi-year program designed to provide a framework for Florida First Responders to work with the First Responder Network Authority (*FirstNet*) in the design efforts for the nations first <u>Public Safety Broadband Network</u>.
- The goal of this program is to work with *FirstNet* to create a network design that can meet the requirements of the public safety mission in Florida.



FloridaNet Project Status Update

- State and Local Implementation Grant (SLIGP) awarded to Florida Department of Emergency Management in 2013
- Agencies benefitting from this program include: Law Enforcement

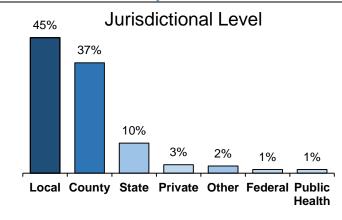
 Emergency Management
 Emergency Medical Services
 Tribal Public Safety Agencies
 Health Services
 Public Works
 Fire Services
- Florida Department of Highway Safety is sub recipient of SLIGP and provides the full time staffing for the FloridaNet project
- On April 27, 2015, *FirstNet* issued the First Responder Network Authority's Special Notice draft RFP which explains the proposed design and operation of the Nationwide Public Safety Broadband Network (NPSBN).
- The final RFP will be issued before the end of the calendar year, yet it could take another 12-to-18 months before an award is made.

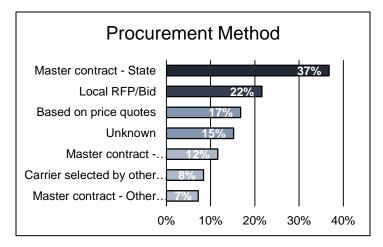


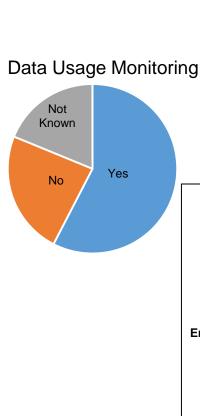


Contract Vehicle Survey Florida County Survey of Communications Systems

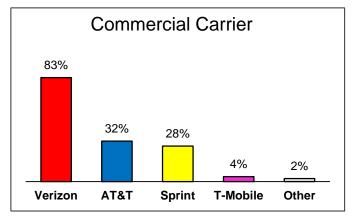
White Paper Results

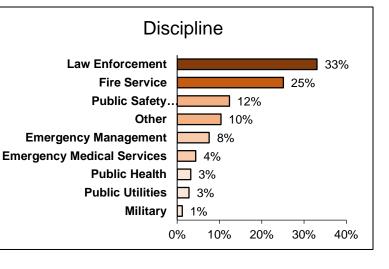












Data Collection Next Steps

 Continue to send Netmotion Wireless data to *FirstNet*



- Currently reaching out to agencies with data monitoring tools; asking them to provide data to *FirstNet*
- Minimum data requested: location, responder type, time, applications
- Submit as much data as we can to *FirstNet* by September 30, 2015
- FirstNet to produce nationwide Request for Proposal (RFP) by the end of 2015
- Develop vendor specifications for data collection
 - Deliverable timelines, data formats, etc.
- Vendor begins in-depth data collection effort January 2016



Questions

850-922-7426





Florida Executive Interoperable Technology Committee Co-Chairs

Bill Rogers Director, Division of Telecommunications DMS Bill.Rogers@dms.myflorida.com Chuck Hagan State Logistics Chief Florida DEM charles.hagan@em.myflorida.com

State Working Group – Interoperable Communications Committee Co-ChairsCarlton WellsGreg HolcombState of Florida, DMSLake CountyComm Engineer SupervisorDivision Manager/E911 Coordinatorcarlton.wells@dms.myflorida.comGHolcomb@lakecountyfl.gov

GHolcomb@lakecountyfl.gov 352-343-9491

Florida Statewide Interoperability Coordinator (SWIC)

Phil Royce , Communications Branch Director Logistics Section Florida DEM Phil.royce@em.myflorida.com



