

# State Of Maine

Maine State Communications Network

**MSCommNet**

5 October 2006

# Agenda

- Introductions
- Brief Orientation
- Project – Accomplishments to Date
- Project – Next Steps
- Collaborative Opportunities
- Open Discussion

# Introduction of Panel

- Dick Thompson, CIO
- Greg McNeal, Director Enterprise Services
- Shawn Romanoski, Director of Radio Services
- Lavana Snyder, Project Manager MSCCommNet

# Statewide Radio Network Board

- The Statewide Radio Network Board is chartered to establish standards for statewide radio and network system operations.
- Statewide Radio Network Board established by Public Law, Chapter 634 [MRSA §1520, Sec. 3, sub-§1](#)

# Board Members

- **Richard B. Thompson**, Chair
- **David Bernhardt** , Director Dept. of Transportation
- **Michael Burns**, Asst. Director Dept. of Transportation
- **Michael P. Cantara**, Commissioner Dept. of Public Safety
- **Charles Jacobs**, Acting Director MEMA
- **Dave Packard**, AITD/DOC
- **Col. Craig A. Poulin**, ME State Police Dept. of Public Safety
- **Col. Thomas Santaguida**, Warden Inland Fisheries
- **Alan Stearns**, Senior Policy Advisor Governor's Office
- **Bill William**, Supervisor, Forest Protection Dept. of Conservation

# Statewide Radio Network Board Projects

- Consolidation
- CONOPS
- **MSCommNet**
  - Microwave
  - VHF Radio Equipment
  - Infrastructure (Towers/Shelters/Generators)

# Coordination of License holders

## Solutions/Recommendations

The State embraces the concept of “Con-Ops” with some important modifications/recommendations. The State has currently identified the following state-wide “talk-around” frequencies currently in use and licensed for this purpose:

- SWSP 154.710
- NWCC 155.475
- EMS/LASAR 155.160
- SPCC 154.935
- SF 154.310
- SWCC 154.695

# Blue Print for Coordination

- **Con-Ops is “coordination of effort.” It is a blue print, which outlines how we are to utilize the frequencies available to us today, in a given situation of a pre-defined magnitude. It also tells non-traditional agencies how they can communicate when coordinating with all first responders in our State.**
- **It does not take away anything from what you utilize for communications in the performance of your daily responsibilities. As a first responder community, we are agreeing to utilize current frequencies and protocols in a predefined manner, should an event occur which is far beyond our normal operating parameters. How would Con-Ops Work?**
- **Currently, there are 6 frequencies, which have been identified to support “on-site” communications during a con-ops situation. These frequencies are as follows;**
  - **SWSP 154.710**
  - **NWCC 155.475**
  - **EMS/LASAR 155.160**
  - **SPCC 154.935**
  - **SF 154.310**
  - **SWCC 154.695**
- **Agencies, who do not currently have these frequencies programmed into their radios, will now be allowed to do so. Should an event occur that meets or exceeds the following criteria;**
- **An event/incident involving response from four (4) or more agencies**
- **An event/incident involving a duration of at least six (6) or more hours**
- **An event/incident involving response from at least three (3) levels of gov’t**
- **An event/incident where normal use of common simplex (local talk-a-round) channels will not support the incident commanders needs**
- **If any three (3) of the previous criteria are met, the incident commander may request a “Con-Ops” level one (1) through six (6) be activated to support their operations. (e.g. a level three request would result in SWSP, NWCC, and EMS/Lasar being dedicated to that particular event for it’s duration)**

# Request Protocols / Procedures

## “When an Incident Commander recognizes they may be in a “Con-Ops” situation”

- Request Protocols / Procedures
- “When an Incident Commander recognizes they may be in a “Con-Ops” situation”
- **Step 1:** Call MEMA at 1-800-452-8735 to make the request. Be prepared to identify yourself and provide a description of your incident.
- **Step 2:** MEMA will request that Public Safety Dispatch put out a teletype requesting a general broadcast alert for the region where the incident is occurring. The teletype will indicate that a “Con-Ops” level 1 -? Is being put into affect.
- **Step 3:** All communications centers within the incident region shall immediately broadcast that a “Con-Ops” incident is in affect, and shall indicate at what level so that responders know what channels are now dedicated to the incident commander in charge of that incident.
- **Step 4:** As the incident escalates, or deescalates the incident commander shall again call MEMA to adjust the request.

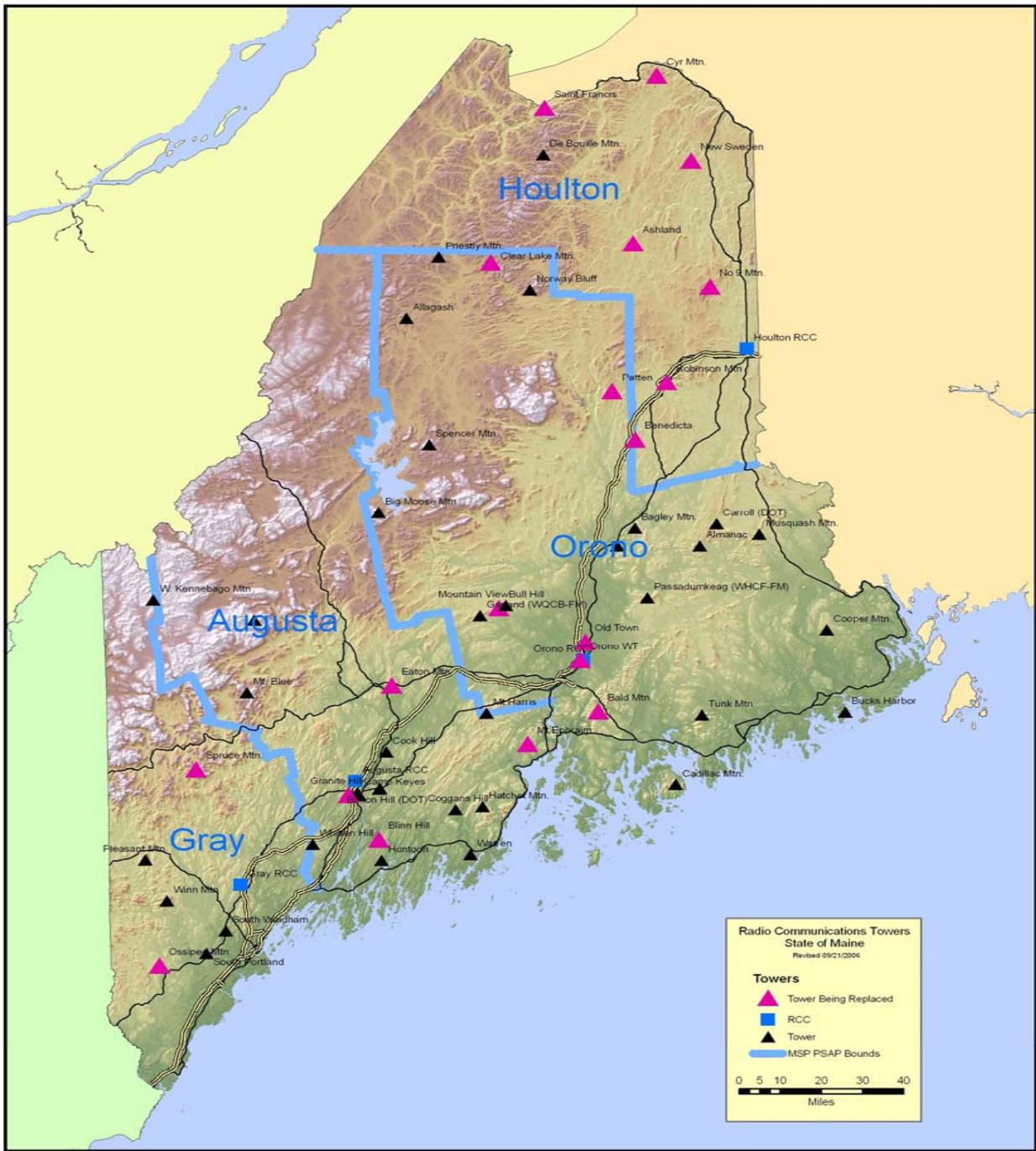


# Accomplishments to Date

- RFP for Engineering and Design
- 2006 Construction with DOT
- Collaborative efforts with Municipalities/Counties
- Agency Tower Consolidation
- MACRO Reports
  - Executive Summary
  - Remote Site Report
  - Coverage Report
  - Frequency Report
  - Microwave Design Report
  - System Design Report
  - Supplemental Site Report

# Assumptions

- VHF Technology
- Narrowband/Digital
- Digital Microwave
- Follow all TIA/EIA Applicable Standards
- DOT Site Permitting and Land Acquisition



# Next Steps

- Evaluate Cost and Benefits of different implementation approaches.
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- Government Partnerships (State & Fed)
- Private Partnerships
- OIT Strategy for Implementation
  - Systems Integration
  - DOT- more expansive role
  - Combination- DOT and Systems Integration
- RFP and SOW
- Outreach to Municipalities/Counties

# Collaboration Opportunities

- What does collaboration mean to Municipalities/Counties? Why should they be interested?
- How do Municipalities/Counties participate?
- How much will it cost?
- When will it happen?

# Benefits of Collaboration

- Sharing of infrastructure saves dollars for all participants
- Ensures standardized technology and equipment
- Interoperability goals attainable
- More efficient use of VHF spectrum

# How to Participate

- State creating a Process for Participation
  - Process will be Finalized first quarter of 2007

# Municipal/County

## Process for Participation on State Infrastructure (draft)

For each co-locating opportunity the Municipal/County will complete the following process. Please see the State web site for any updates and Q&As. The State will not share secure information provided by participant that is protected by Maine's FOAA law.

- **Request for information from co-locating entity**
  - State determines to proceed
- **Formal letter of interest for co-Location**
  - Written/email to State Director of Radio Services
- **Director of Radio Services takes next steps**
  - Letter to Acknowledge formal request (w/timeframe expectations) and requests Information Package (survey)
  - Receive Completed Technical Survey
  - Evaluation of technical survey and feasibility
  - Establish initial cost estimates
  - Recommendation from management advisory group
    - Working sessions with Co-Locating Entity
    - Technical Advisory Group Recommendation
- **CIO/designee proceed/no proceed letter**
- **Proceed**
  - Meet w/Co-Locating Entity
    - Determine work plan/resources/estimates
    - MOA with Co-Locating Entity
    - Create working team to implement
    - Establish billing cycle
    - Refer to MOA/Contract Management Group
- **Signed MOA**

# Information Package Contents

The State will not share secure information provided by participant that is protected by Maine's FOAA law.

- Goals for Collaborative Partners
- Process for Co-Locating
- Technical Survey
- Rate Structure
- Sample Contract/Memorandum of Agreement (MOA) between State of Maine and Collaborative Partner

# Technical Survey Contents (draft)

The State will not share secure information provided by participant that is protected by Maine's FOAA law.

- **Business Requirements of Co-locating entity**
- **Technical Specifications:**
  - **ERP** (Effective Radiated Power)
  - **Frequency**
  - **PL/CTCSS/Tone** (Private Line/ Continuous Tone Coded Squelch System)
  - **Cable**
    - Length
    - Type
  - **Type of Antenna**
    - Height/AGL
    - Data/Voice/SCADA
  - **Type of Radio**
  - **Type/Size of Dish**
- **Frequencies on Site (include hard copy of current license)**
- **Space/Equipment on Tower**
- **Space/Equipment in Shelter**
- **Accessibility Needed**

# Participation Rate Structure

## Assumptions:

- **State:**
  - Responsible for all infrastructure construction, maintenance and costs
  - Manages all modifications to site
  - Provide designated shelter area for non state entities (including 24/7 access)
- **Collaborative Partner:**
  - Ensuring interference free spectrum
  - Professional management of site environment
  - Must meet State technical standards

# Types of Service

## Basis for Determining Rates:

- **State provides site (tower, shelter and generator) space**
  - Square footage on tower
  - Square footage in shelter
  - Separate power entrances
- **State provides radio equipment and maintenance**
  - Same as State Agencies
  - Infrastructure
  - Operating Costs
  - Equipment/Refresh costs
- **State provides microwave services**
  - Bandwidth (through multiplexers)
- **Partnership for building infrastructure site**
  - Percent of Infrastructure costs/long term lease arrangement

# When will it happen?

- Implementation Approach Decision — Oct. 2006
- RFP for Implementation Approach — 1<sup>st</sup> Qtr. 2007
- Begin Implementation — Fall 2007
- 2006 Construction Season — Complete 2007

OPEN DISCUSSION

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Q & A