



**ALASKA LAND MOBILE RADIO EXECUTIVE COUNCIL
(A Federal, State and Municipal Partnership)**



MEMORANDUM FOR ALMR Executive Council

December 11, 2013

FROM: DOD Executive Co-Chair

SUBJECT: December 19, 2013, ALMR Executive Council Meeting Agenda

TO: See Distribution

1. **Call to Order.** (5 min) Colonel Scott Moser, Department of Defense (DOD) Co-Chair will call the meeting to order at 2:30 p.m. The roll will be taken.
2. **Opening Statements and Other Announcements.** (5 min)
3. **Approval of Previous Meeting Minutes.** (5 min) Review of the draft Executive Council minutes from the September meeting. (Atch 1)

Motion: Approve September 19, 2013, Executive Council meeting minutes, as presented.

4. **Old Business.** (20 min)

a. System Upgrade Assistance II funding. (5 min, Mr. Tim Woodall) At the September meeting, Mr. Woodall advised the council that the DOD, State of Alaska (SOA) and the Municipality of Anchorage (MOA) had to agree to move forward together and to initiate their contracts at the same time. He stated he would take the task to put together a series of presentations for the council starting with ALMR 101 which would cover the lifecycle issues and follow it with another regarding the financial aspects and he would coordinate with the State and local governments.

b. AFEA replacement Co-Chair. (5 min, Mr. Del Smith) At the September meeting, Mr. Smith advised the council that the former AFEA representative, Assistant Special Agent in Charge (ASAC) Darrin Jones, had advised him he was going to ask the current SAC to sit in during the interim and hopefully the new ASAC would step in when he/she arrived around the end of the year.

Colonel Moser advised the council he would approach the senior DOD representative to the AFEA to discuss the vacancy.

c. Clear site equipment transfer. (5 min, Mr. Tim Woodall) At the September meeting, Mr. Woodall briefed the council Motorola™ was getting estimates to replace all the wiring and cables that AT&T had cut during the removal. He also advised the council Clear Air Station was seeking funds in order to utilize some of the equipment.

d. Transportable Communications System Memorandum of Agreement. (5 min, Mr. Tim Woodall) At the September meeting, Mr. Woodall briefed he was currently researching if government agencies could share the transportable resources and the base contracting office was taking it through their legal office because any shared use would require a modification to the current contract.

5. User Council Update. (5 min, Major Matt Leveque, Chair)

User Council annual elections results announcement.

6. Operations Management Office. (15 min, Mr. Del Smith)

- a. SOA audit findings and recommendation
- b. ALMR Motorola Information Assurance (IA) Outbrief (Atch 2)
- c. November System metrics (Atch 3)

7. New Business. (50 min)

- a. ALMR 101 Training Presentation (15 min, Mr. Joe Quickel)
- b. SUA Program and Lifecycle Sustainment Presentation (30 min, Motorola)
- c. Gold Elite replacement under System migration 7.15 (5 min, Mr. Del Smith)

8. Next Meeting. (5 min) The next meeting is scheduled for January 16, 1:30 p.m. at the Department of Public Safety Training/Conference Room, 5700 E Tudor Road.

9. Adjourn Meeting. (5 min)



SCOTT E. MOSER, Colonel, ALCOM/J6
Department of Defense Alaska Co-Chair
ALMR Executive Council

3 Attachments:

- 1. Draft September Meeting Minutes
- 2. IA Outbrief Slides
- 3. November System Metrics

Distribution:

ALCOM/J60, Colonel Scott Moser
SOA DPS, Deputy Commissioner Terry Vrabec
AML, Chief Jeff Tucker
MOA, Lt Ken Spadafora
SOA ETS, Mr. Jim Bates
User Council, Major Matt Léveque
OMO, Mr. Del Smith
ALCOM/J64, Mr. Timothy Woodall
MOA, Mr. Trygve Erickson
SOA ETS, Mr. Max McGrath
MOA, Mr. Jason Beach



ALASKA LAND MOBILE RADIO EXECUTIVE COUNCIL
(A Federal, State and Municipal Partnership)



MEMORANDUM FOR ALMR Executive Council

October XX, 2013

FROM: DOD Executive Co-Chair

SUBJECT: September 19, 2013, ALMR Executive Council Meeting Minutes

TO: See Distribution

Executive Council Members Present:

Colonel Scott Moser	Department of Defense (DOD) - Alaskan Command
Commissioner Joe Masters	State of Alaska (SOA) - Department of Public Safety
Chief Jeff Tucker	Alaska Municipal League (AML) - North Star Volunteer Fire Department
Lt Ken Spadafora	Municipality of Anchorage (MOA) - Anchorage Police Department

ALMR Support Team Members and Guests Present:

Major Matt Leveque	User Council Chairman - Alaska State Troopers
Mr. Pete Murphy	User Council Vice Chairman - Federal Bureau of Investigations
Mr. Jim Bates	Director, Enterprise Technology Services (via teleconference)
Mr. Del Smith	Operations Manager, ALMR
Mr. Jim Kohler	SOA Telecommunications Special Projects Administrator
Mr. Tim Woodall	DOD ALMR Project Manager
Ms. Sharon White	Enterprise Technology Services (via teleconference)
Ms. Sherry Shafer	Operations Management Office (via teleconference)

1. **Call to Order.** Colonel Scott Moser, Department of Defense (DOD) Co-Chair, called the meeting to order at 1:29 p.m.

2. **Opening Statements and Other Announcements.** Colonel Moser asked if there were any announcements. There were none.

3. **Approval of Previous Meeting Minutes.** Colonel Moser asked the Executive Council (EC) if they had reviewed the August meeting minutes and if they had any requested changes. Hearing no changes, Colonel Moser proposed the motion for their approval.

Motion: Approve August 15, 2013, Executive Council meeting minutes, as written.

The motion to accept the minutes was made by Colonel Moser and seconded by Commissioner Joe Masters. There were no objections. **The motion was carried and approved.**

4. **Old Business.**

a. System Upgrade Assistance (SUA) II. Mr. Woodall stated the upgrade to the 7.13 software platform was complete. He advised the information assurance scans to meet the Defense Information Assurance Certification Accreditation Program (DIACAP) were to be done by Motorola™ and the DOD contractor this week.

Mr. Woodall briefed the next step in the process was to secure the funding for the SUA II lifecycle updates.

Commissioner Masters stated the representatives needed to have some significant discussions in order to come to an agreement on how to proceed.

Mr. Woodall advised the DOD, State of Alaska (SOA) and the Municipality of Anchorage (MOA) had to agree to move forward together and to initiate their contracts at the same time. He stated Motorola™ advised him the SUA II package would provide a 27 percent cost savings over a single capital investment upgrade approach over the next 5 years.

Colonel Moser asked if he knew if all the equipment had to be upgraded.

Mr. Woodall briefed the consoles and Quantars would reach their end of life in the next 5 - 7 years and he also advised the council the XTS5000 and XTL5000 subscribers would no longer be supported after 2019.

Major Matt Leveque stated they were advised at the Motorola™ briefing even if ALMR proceeded to an advanced operating system, the subscribers would still work.

Mr. Del Smith advised he also attended the briefing and understood the operating system would default to the lowest common denominator (i.e. backwards compatibility).

Colonel Moser stated he didn't feel he was informed enough to make any decisions at this time.

Commissioner Masters requested that the council continue to keep this as a discussion item on the agenda.

Mr. Woodall stated he would take the task to put together a series of presentations for the council starting with ALMR 101 which would cover the lifecycle issues and follow it with another regarding the financial aspects. He advised he would coordinate with the State and local governments.

b. Clear Air Force Station (AFS) FY14 Membership Agreement. Colonel Moser advised the council members he was finally able to get the signed agreement this week. He stated the biggest concern from Clear AFS leadership was the financial aspect. Therefore, they had attached an addendum to their agreement stating they have no funds and if there was a charge to utilize the System, they would withdraw.

Mr. Smith asked if Clear leadership understood their obligation was to ask for the funds, whether they received any or not.

Colonel Moser stated they understood.

[This item is now closed.](#)

c. AFEA replacement Co-Chair. Mr. Smith advised the council that although Assistant Special Agent in Charge (ASAC) Darrin Jones had planned on being at the meeting, he had sent an email stating both his house and car had sold quickly so he had flown out to his new duty station to join his family.

Mr. Smith advised the council that ASAC Jones had been in touch with him prior to departing and stated he had approached someone to fill the seat but that individual had declined. ASAC Jones had advised him he was going to ask the current SAC to sit in during the interim and hopefully the new ASAC would step in. ASAC Jones had briefed that would probably not be until the end of the year.

Mr. Woodall stated the senior executives in the Alaska Federal Executive Association (AFEA) have to vote to approve the appointee so the Executive Council would have to wait while they work through their process.

Colonel Moser advised the council he would approach the senior DOD representative to the AFEA to discuss the vacancy.

d. Clear site equipment transfer. Mr. Woodall stated the DOD had possession of the equipment and it was currently in a storage facility in Eagle River. He advised the council when AT&T had removed the equipment from the site, rather than unhooking the cables properly, they had simply cut them, including the power cables.

Mr. Woodall briefed that Motorola™ was getting estimates to replace all the wiring and cables and that AT&T would be paying for the repairs. He stated once the equipment could be powered, it would be upgraded.

Mr. Woodall advised the council that Clear Air Station was seeking funds in order to utilize some of the equipment on the installation or at the SOA site at Kobe. He stated at such time Clear would need to negotiate directly with the State.

e. Transportable Communications System Memorandum of Agreement (MoA). Mr. Woodall stated he was still looking into the development of the MoA. He briefed he was currently researching if government agencies could share the transportable resources, otherwise he would draft a MoA for its use. Mr. Woodall advised the contracting office at Joint Base Elmendorf-Richardson (JBER) was taking it through their legal office regarding the enactment of a contract because any shared use would require a modification to the current contract.

Colonel Moser stated their office would continue to work through the process.

5. User Council Update.

Major Matt Leveque advised the council there were two nominations to the User Council. One was to fill the vacant primary Federal Non-DOD All Others position and the other was an additional alternate to the sector along with Mr. Alvin Flowers, Transportation Security Administration.

He provided the following motion for consideration:

Motion: Approve the nomination of the Alaska Federal Executive Association for the appointment of Mr. Chris Lampshire as the primary Federal Non-DOD US Forest Service representative and Mr. Paul Kain as an alternate representative within this sector of the ALMR User Council.

Colonel Moser asked if there were any objections to the proposed nominees. Hearing none, Colonel Moser proposed the motion as written and it was seconded by Commissioner Masters. There were no objections. **The motion was carried and approved.**

6. Operations Management Office.

a. 7.13 System Migration. Mr. Smith advised the SOA was still in the process of doing their equipment inventory. He stated Mr. Woodall had covered the other on-going actions sufficiently.

b. State of Alaska Legislative Audit. Mr. Smith briefed he had not heard anything from the Legislative auditor in quite some time.

Commissioner Masters advised the council he had been advised by the auditor in charge he was the only council member to respond to her email regarding the letter of findings from the Division of Legislative Audit. He stated he had received a copy today and it was his expectation both the DOD and Department of Administration (DOA) would respond. Commissioner Masters explained the reason DOA would be responding along with the DOD is ALMR resides under DOA, although the Department of Public Safety (DPS) was the council Co-Chair. He briefed the council would review and coordinate with DOA so each understood how the other was responding.

Commissioner Masters advised Major Leveque would coordinate the final response and once it was back into the auditor's hands, they prepare a final report to the legislature. He suggested the working group consist of Major Leveque, the Operations Manager, a representative from the DOD and Mr. Jim Bates, as the representative from Commissioner Hultberg's side.

Mr. Jim Kohler reiterated for the group that the response was due back 10 working days from the date of receipt.

Commissioner Masters requested he receive the draft early and suggested the suspense of close of business on September 25 for the initial review.

c. Motorola™ Lifecycle Sustainment Presentation. Mr. Smith advised he had attended the same briefing as Major Leveque on the SUA II.

Mr. Woodall briefed Motorola™ gave three separate briefings: one to the DOD, one to the SOA and one to the MOA. He stated he sat in on a portion of the briefing to SOA.

Colonel Moser asked who would be briefing the future plans for the entities and Mr. Woodall stated he would coordinate with the State and locals on this item.

d. August System Metrics. Mr. Smith briefed the wild land fires during the summer months had impacted the three-channel sites at Tok, Willow, Tolsona and Glennallen. He advised the council the User Council (UC) was looking at the sites most impacted and making them priorities for added capacity. He stated he was also doing an article in the October Insider newsletter regarding use of the Incident Command (IC) Zones at the request of Mr. Jordan Halden, Division of Forestry and UC-All Others representative.

e. FY14 Training. Mr. Smith advised the council that Mr. Joe Quickel, ALMR Training Coordinator had spent a week recently on the Kenai Peninsula talking to the

various agencies there and would be visiting the Valley in the next week. He stated Mr. Quickel performing outreach at the moment for new training classes and would continue to check with all ALMR agencies. Mr. Smith briefed the training had been well received by those agencies who had taken advantage of it.

7. New Business.

a. EC member departure. Commissioner Masters advised the council he was departing and he was proposing the Deputy Commissioner for Public Safety Terry Vrabec sit in during the interim until the new Commissioner was appointed.

Mr. Jim Bates stated he would check with the Department of Administration Commissioner regarding approval of the proposal.

b. FirstNet/Public Safety Broadband. Major Leveque briefed this week the State had signed the grant for the State and Local Implementation Grant Program (SLIGP). He advised the funds would be utilized in two specific areas to start. Those would be outreach and education of the stakeholder communities and data collection on the available resources already in place that might be leveraged in the future.

Commissioner Masters requested Major Leveque send the documents regarding the program to Colonel Moser after the meeting.

c. Mr. Jim Kohler departure. Mr. Kohler advised the council members this was his final meeting. He briefed his retirement effective date was October 31 which was concurrently the last date of his contract.

Mr. Kohler stated his experience in dealing with the Executive Council was highlighted by their commitment and was kept at a level that was appreciated and relevant.

8. Next Meeting. Colonel Moser briefed the next meeting is scheduled for October 17, 2013, 1:30 p.m. at the Department of Public Safety Training/Conference Room, 5700 E Tudor Road.

9. Adjourn Meeting. Colonel Moser asked if there were any other items for discussion. Hearing none, he proposed the following motion to adjourn.

Motion: Adjourn the September monthly Executive Council meeting.

The motion was seconded by Commissioner Masters. There were no objections. **The motion was carried and approved.**

The meeting adjourned at 2:17 p.m.

SCOTT E. MOSER, Colonel, ALCOM/J6

Department of Defense Alaska Co-Chair
ALMR Executive Council

Distribution:

ALCOM/J60, Colonel Scott Moser
SOA DPS, Commissioner Joseph Masters
SOA DPS, Deputy Commissioner Terry Vrabec
AML, Chief Jeff Tucker
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MOA, Mr. Trygve Erickson
SOA ETS, Mr. Max McGrath

DRAFT



ALMR Motorola IA Out-Brief

September 20, 2013

Major IA Differences 7.1.1 to 7.13

Simpler and More Efficient

- Fewer Master Site Devices
- Single Domain across all Zones
- Fewer Passwords (still a lot)
- Automatic daily back-ups

Technical IA Enhancements

- SSH, SNMPv3 and 802.1x Authentication
- Secure SWDL added to remove non-secure protocols
- PostgreSQL replaces Interbase Database
- Application Authentication & Application Level Role Based Access Controls (RBAC)
- Centrally managed OS level RBAC
- McAfee ePO replaces Symantec Anti-Malware

Activity Summary – Week 1

Week 1, Sep 9 – 13

- Zone 1 Master Site, Tudor Road
 - Apply latest security patches and AV definitions
 - Audit IA configuration
- Zone 2 Master Site, Ft Wainwright
 - Apply latest security patches and AV definitions
 - Audit IA configuration

Activity Summary – Week 2

Week 1, Sep 16 – 20

- Zone 1 Master Site, Tudor Road
 - Continue IA preparation
 - Conduct System Scans
- Zone 4 Master Site, Fire Station
 - Apply latest security patches and AV definitions
 - Audit IA configuration

IA Prep Summary – Actions Zone 1

Zone 1 Week 1

- Identified IP host devices at NM/Dispatch and RF sites Using NMAP and UNC tools to achieve this. Also worked with Zone 1 FST Mark Jenks to verify non-usage of some RTUs.
- Patched RNI Windows servers (OS and 3rd Party).
- Patched RNI Red Hat Enterprise Linux (RHEL) Servers
- Rolled Active Zone Controller from ZC02 to ZC01. (This action completed a remaining item from the ATP. Del Smith witnessed the roll-over).
- Downloaded OS and 3rd Party patches to RNI Windows workstations. Mark Jenks coordinated re-booting of several remote Dispatch Positions. The re-booted machines are the ones to be vulnerability scanned. Remaining dispatch positions will be re-booted at customer convenience.
- Patched OS and 3rd Party and re-booted Tudor Rd. KMF Server and KMF client machines.
- Performed preliminary Retina scan of RNI Windows and RHEL devices

IA Prep Summary – Actions Zone 1

Zone 1 Week 2

- Completed RHEL 6.x IA configuration and patching
- Ran NMAP on CEN
- Removed unused legacy RTUs from the network by disabling the Ethernet switch ports they were connected to.
- IA Configuration of SNT MOSCAD gateway, SDM devices, CCGW gateway, several GCP 8000 site controllers and VPMs, as needed
- Disabled ports on unused console devices at Sites 7, 8 & 12
- Configured Radius and SNMPv3 on several devices, as needed
- Completed ADM/CDM and DCD patching
- Investigated IA posture of Genesis Subsystem
- Applied updates/patches on-site of CEN 3 KMF Server, KMF Client, and PN Server at Elmendorf AFB. Other remote CEN devices must be patched and rebooted by FST.

IA Prep Summary – Actions Zone 2

Zone 2 Week 1

- Completed NMAP Scan
- Completed RHEL 6.x IA configuration and patching
- Completed Gold Elite Windows patching
- Completed Windows patching of Master Site Devices
- Completed IA scripts / Local Account Check on Master Site Windows devices
- Completed Windows 3rd Party patching
- Completed IA configuration of 14 VPNs
- Assisted with Zone 2 Site 3 Dispatch ELT files

IA Prep Summary – Actions Zone 4

Zone 4 Week 2

- Completed RHEL 6.x IA configuration & patching
- Completed Windows Patching
- Completed 3rd Party Patching
- Completed Gold Elite Patching (some need re-booting)
- Fixed Communication error with site switch

Zone 2 - Pending Configuration Issues

- KMF Clients still need to be patched. Unable to complete due to the network speeds or restricted remote access. Local FST should be able to complete.
- Several routers with Telnet “On”. Can be reconfigured remotely.

IA-related Items Identified during Upgrade

Zone 4 Dispatch Sites

- Autologin “Enabled” on Gold Elite consoles at customer request, Dispatch sites 1, 2 & 3. MOA has been operating in this mode for an extended period. This is not a new risk.
- Fairbanks PD Gold Elites (Qty 7) are running Windows XP due to FSA Cohabitation. XP can be hardened on ASTRO 7.13, but upgrade to Win 7 recommended. Also, not connected to domain.

Zone 4 Fire Station Alerting (FSA)

- MOA FSA not included in ASTRO 7.13 Upgrade scope. RTUs not hardened.

Note: Plans are to upgrade the Fairbanks PD Gold Elites & MOA FSA

Scans – Week 2

- Conducted scans of Zone 1 Master Site RNI equipment using Retina
- Scanned CEN devices (representative sample)
- Scanned Genesis Subsystem, DCD and ADM/CDM server

Scan Summary

■ Retina Vulnerability Scans

- RNI Windows Servers and Workstations
- RHEL Servers
- Network gateway/router and Ethernet switches (representative sample)
- RNI miscellaneous devices including NTP Server, RTU's, Terminal Server, Firewalls, GCP8000 and GTR8000 devices on approximately 64 of these devices
- KMF Server, KMF Client, and CEN network devices
- On-site scan of CEN 3 KMF Server, KMF Client, and PN Server at Elmendorf AFB

Scan Summary – Other Devices

Genesis Subsystem

- Not provided by Motorola. Motorola not responsible for hardening and patching
- Genesis subsystem consists of 2 Win2008 Servers and 2 Win XP workstations. None of these devices appear to have been hardened or patched.
- Ran Retina scan. Raw results provided to Taurean.

DCD

- Motorola provided W2003 server used by SSC for diagnostics.
- Not clear how much device is being used.
- Has been joined to the domain and security policies applied.
- Running McAfee anti-malware as a managed client device.
- Latest OS patches applied.
- Retina Scans: DCD only, RNI Win with DCD, RNI Win w/o DCD

High-Level Scan Review

General review of scan data with Wade Hill on 9/19, to:

- Identify “false positives” and other known anomalies with Retina scans of Motorola ASTRO systems
- Discuss patching capabilities, patch cycle and reports
- Discuss Genesis Subsystem and DCD
- Discuss Motorola methodology for incorporating IA into ASTRO architecture
- Discuss other items of IA interest

IA Information to be Provided

Will provide following to Al Moore and Wade:

- Retina .rtd files
- Retina vulnerability exports
- Accreditation system diagram
- Network device configurations
- Patch Inventory Reports and the Patch Inclusion Report
- Information on known recurring false positives

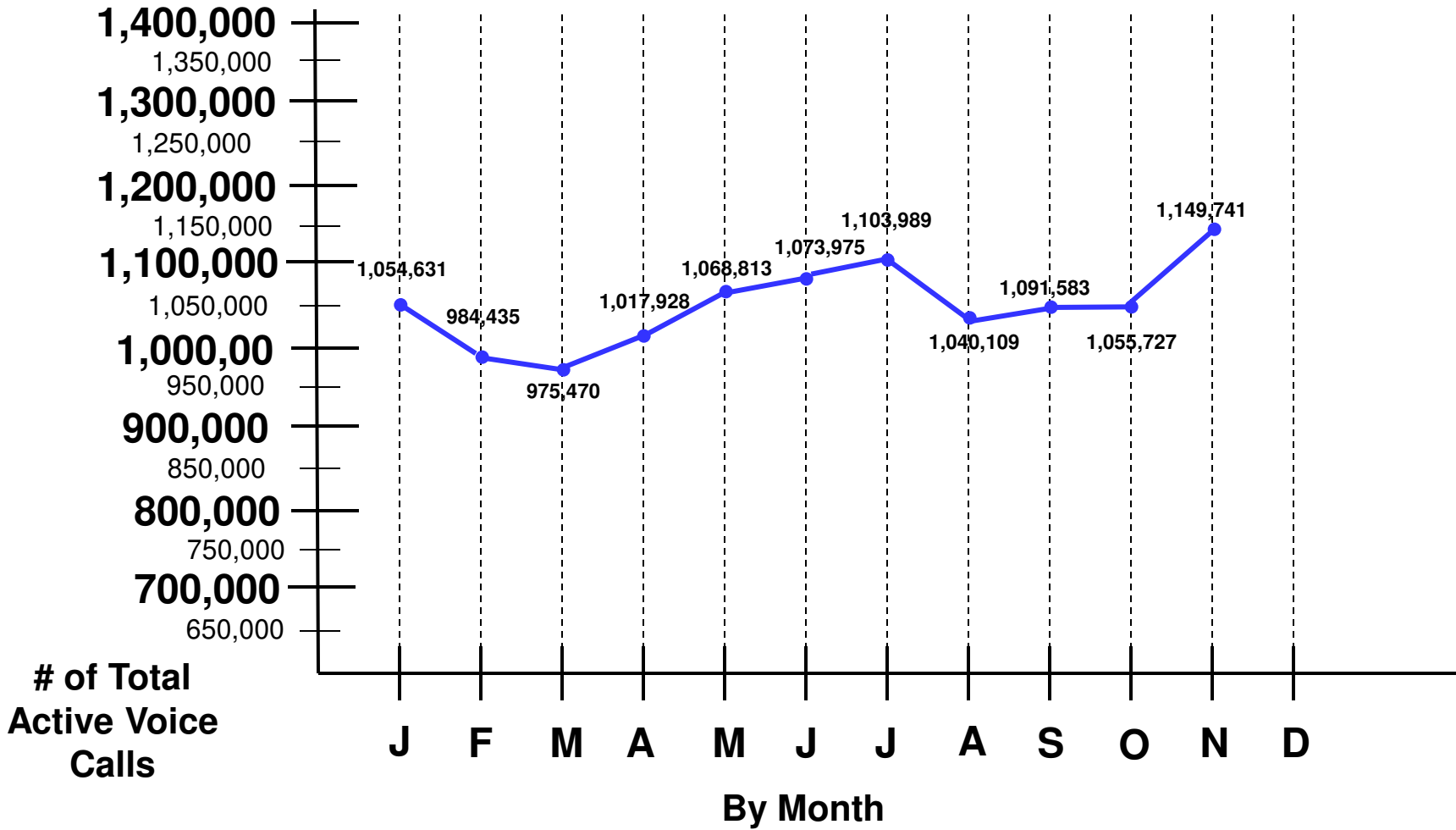


Recommendations

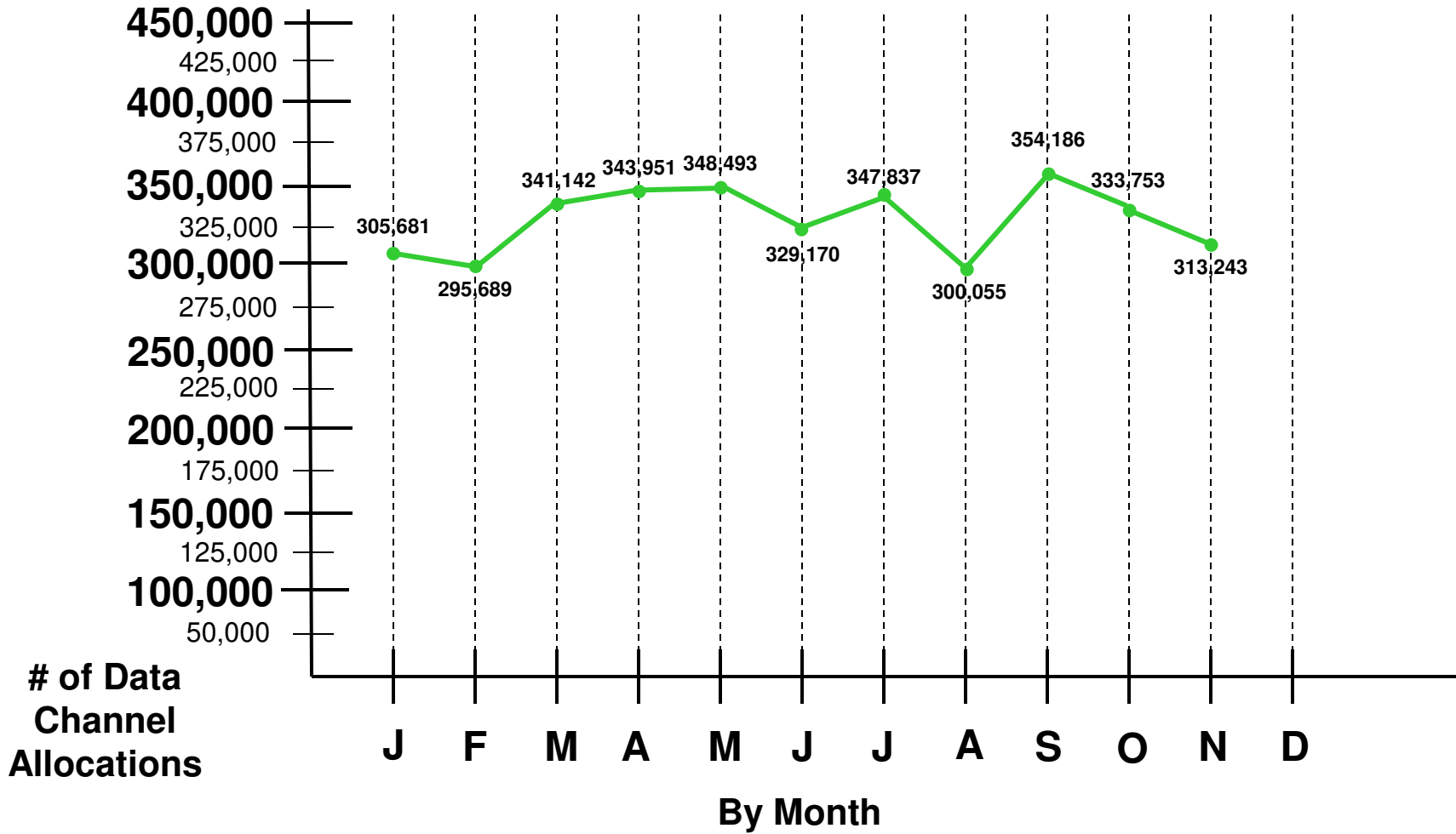
- Hands-on Training
- Consider new Audit Log Management Solution (beta?)

2013 System Performance

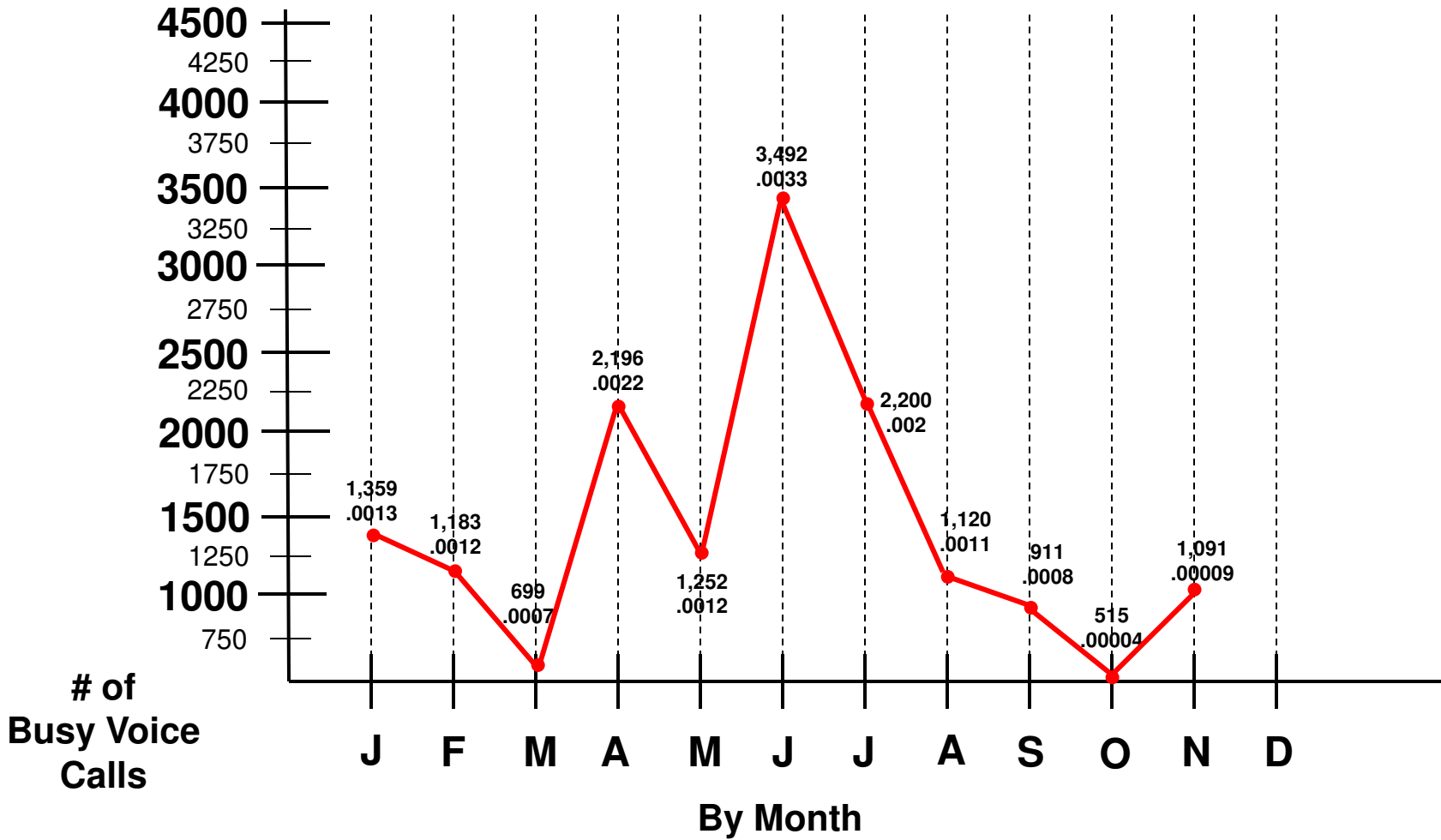
Active Voice Calls



2013 System Performance Data Channel Allocations



2013 System Performance Busy Voice Calls





A FEDERAL, STATE AND MUNICIPAL PARTNERSHIP

ALMR 101

An Executive Overview of the Alaska Land Mobile Radio (ALMR) Communications System Cooperative Partnership

December 19, 2013

Agenda

- **Drivers**
- **Governance**
- **Technology**
- **Contracts/Operations and Maintenance**
- **Interoperability**
- **Decision Milestones**

Primary Drivers

- **SOA Emergency Response Commission Report cited Alaska disasters/mutual aid responses
.....“Interoperability main issue...”**
- **Many different radio systems deployed throughout Alaska**
- **Need to replace aging equipment**
- **Federal and FCC Narrowband Frequency requirements**
- **9/11 Homeland Defense/Homeland Security & Defense Assistance to Civil Authority roles and missions**

Governance: Cooperative Approach

- **Federal, State and Local Government partnership to build, operate and maintain a single shared LMR infrastructure**
 - **Leveraged narrowband migration requirement**
- **Agencies contributed infrastructure to make up the system**
 - **DOD & State of Alaska (SOA) major infrastructure partners for ALMR, Municipality Of Anchorage for Anchorage Wide Area Radio Network (AWARN)**
 - **Federal agencies and Local government mainly subscriber-based**
- **Infrastructure meets each agencies day-to-day needs**
- **Infrastructure provides secure interoperable communications, and is standards compliant**
- **Capital investment is not to be recouped in the cooperative cost share**
- **Cooperative partnership will cost share O&M**

Governance: Executive Council (EC)

Members:

State of Alaska

Deputy Commissioner Terry Vrabec, DPS

Federal Agencies Non-DOD

Vacant

Department of Defense (DOD)

Colonel Scott Moser, ALCOM J6

Associate Members:

Alaska Municipal League (AML)

Chief Jeff Tucker, North Star VFD

Municipality of Anchorage (MOA)

Lt Ken Spadafora, APD



Governance: User Council (UC)

State of Alaska

- Department of Public Safety
Major Matt Leveque, AST (Chair)
- Department of Transportation
Mr. Ocie Adams, M&O ITS Manager
- Other State Agencies
Mr. Jordan Halden, DNR Forestry



Municipalities

- Northern Region
Deputy Chief Brad Johnson, Fairbanks PD
- South Central Region
Mr. Mark Beals, Bear Creek Fire Service Area
- Southeast Region
Lt Kris Sell, Juneau PD



Federal Agencies Non - DOD

- Federal Bureau of Investigation
Mr. Peter Murphy (Vice Chair)
- Bureau of Land Management
Ms. Bev Fronterhouse
- U.S. Forest Service
Mr. Chris Lampshire



Department of Defense

- Air Force
Mr. William Mitchell, JBER
- Air Force
Mr. David Jones, Eielson AFB
- Army
Mr. Rick Williams, USARAK



Governance: Key ALMR Agreements

- **Sep 1997:** Executive Council Charter (with revisions in 2000, 2003, and 2008)
- **Oct 1997:** MOU to release Request for Information to industry
- **Apr 2001:** MOU commitment to move forward
- **Jul 2003:** MOA (DOD and State of Alaska) for shared use of DOD spectrum resources
- **Nov 2007:** Cooperative Agreement signed
- **Jul 2008:** Service Level Agreement signed
- **Mar 2013:** Cost Share Agreement

Governance: Cooperative Agreement

- **The Cooperative Agreement was entered into by the following agencies:**
 - **State of Alaska (material ownership interest)**
 - **DOD – Alaska (material ownership interest)**
 - **Alaska Federal Executive Association (non-material ownership interest)**
- **The Cooperative Agreement (22 Articles) establishes;**
 - **Agencies authority to engage in the cooperative**
 - **General provisions for the cooperative partnership**
 - **Cooperative partnership termination**
 - **Limits to financial obligations for the signed parties**
 - **Organizational structures and users**
 - **User council**
 - **Budget process, cost recovery, user agreements and obligations of the parties**
 - **Hold harmless and indemnification of the parties**

Governance: Service Level Agreement

- **The Service Level Agreement was entered into by the following agencies:**
 - **State of Alaska (material ownership interest)**
 - **DOD – Alaska (material ownership interest)**
- **The Service Level Agreement establishes:**
 - **Set standards and levels of maintenance and quality of service requirements to be maintained by infrastructure owners**
 - **The baseline for development and execution of the Statement of Work for operations and maintenance contracts**

Governance: Cost Share Agreement

- **The Cost Share Agreement was entered into by the following agencies:**
 - **State of Alaska (material ownership interest)**
 - **DOD – Alaska (material ownership interest)**
 - **Federal Executive Association (non-material interest)**
- **The Cost Share Agreement establishes:**
- **The approach, method, and applicable responsibilities of the parties of the agreement**
 - **Approach: Infrastructure owners pay for cost of maintaining equipment, connectivity, spares, radio site towers, power, shelters, roads, grounds they own or occupy and providing maintenance /response repair IAW the Service Level Agreement**
 - **Method: Shared costs are divided into two categories: 1) Infrastructure owners, 2) Non-Infrastructure owners:**
 - **Infrastructure owners divide costs based on percentage of facilities owned; currently 88% State, 12% DOD**
 - **Non Infrastructure owners pay a system usage charge based upon a privately negotiated percentage of the State's share cost liability**

Technology: Implementation Pillars

ALMR FIRST RESPONDER INTEROPERABILITY Day-to-Day, Mutual Aid, Joint Task Force

**Fixed
Infrastructure
Coverage**

Note: 98% of system

**In Bldg
Coverage
For Critical
Infrastructure**

**Gateway
For
Disparate
Radio
Systems**

**Transportable
Systems**

Increase capacity

Extend range of the network

Provide temporary replacement

Provide coverage outside of
fixed infrastructure

Continuity of operations

**Standards Based Communications for First Responders
SECURE, ON DEMAND & IN REAL TIME**

Technology: Current System Summary

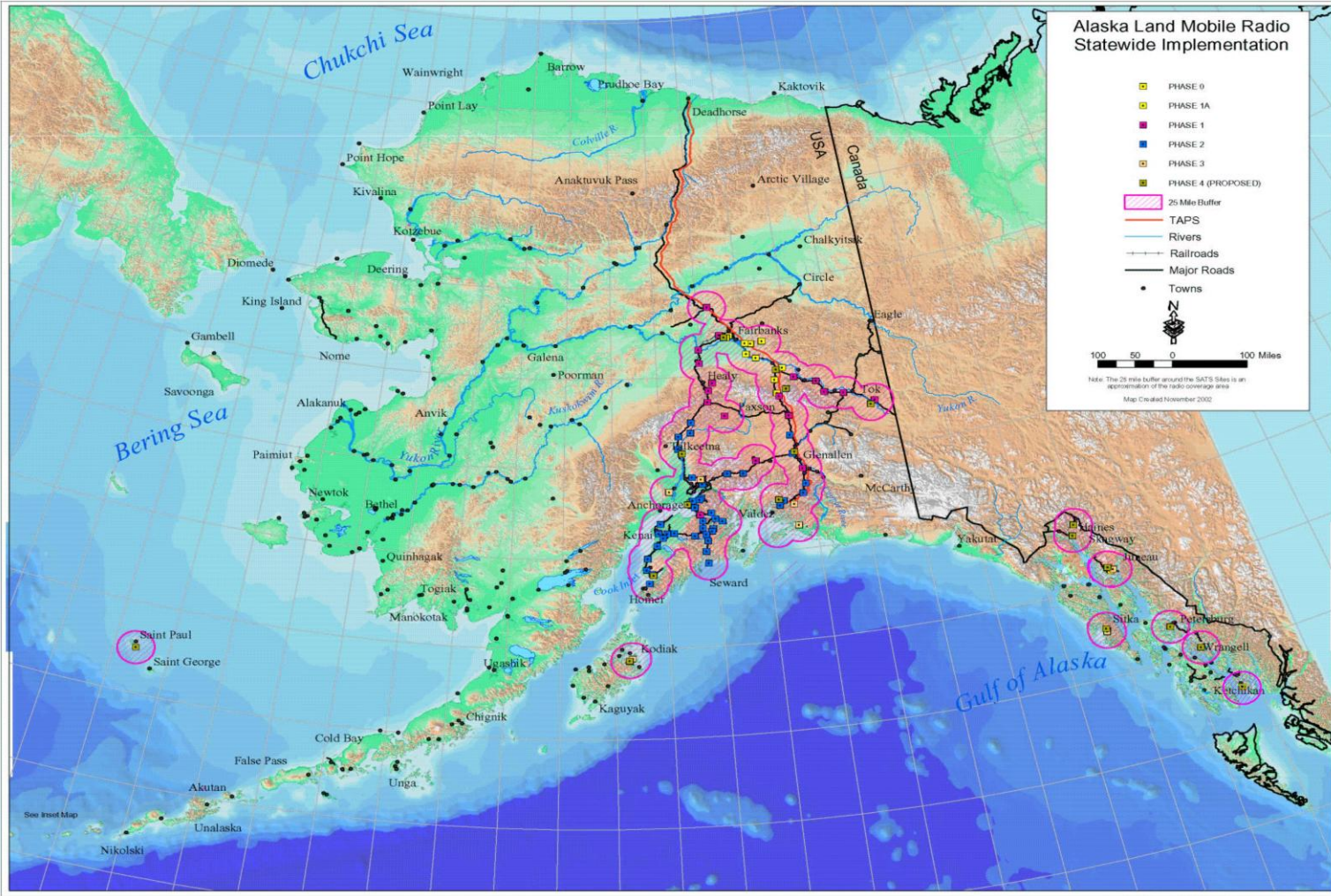
- **National standards-based, digital, trunked, VoIP, VHF, wide area network**
- **84 completed ALMR sites and two Master Controllers (Zone 1 - North and Zone 2 - South)**
- **12 Completed AWARD sites, P25, digital, trunked, 700MHz system with one Master Controller (Zone 4)**
- **120 User Agencies (as of November 2013)**
- **Over 22,000 active mobile and portable radios (as of November 2013)**

Technology: Components

- **Coverage**
- **Spectrum**
- **Radio equipment**
- **SATS** “
- **Gateways**
- **Transportables**
- **Dispatch consoles**
- **Portable and mobile radios**

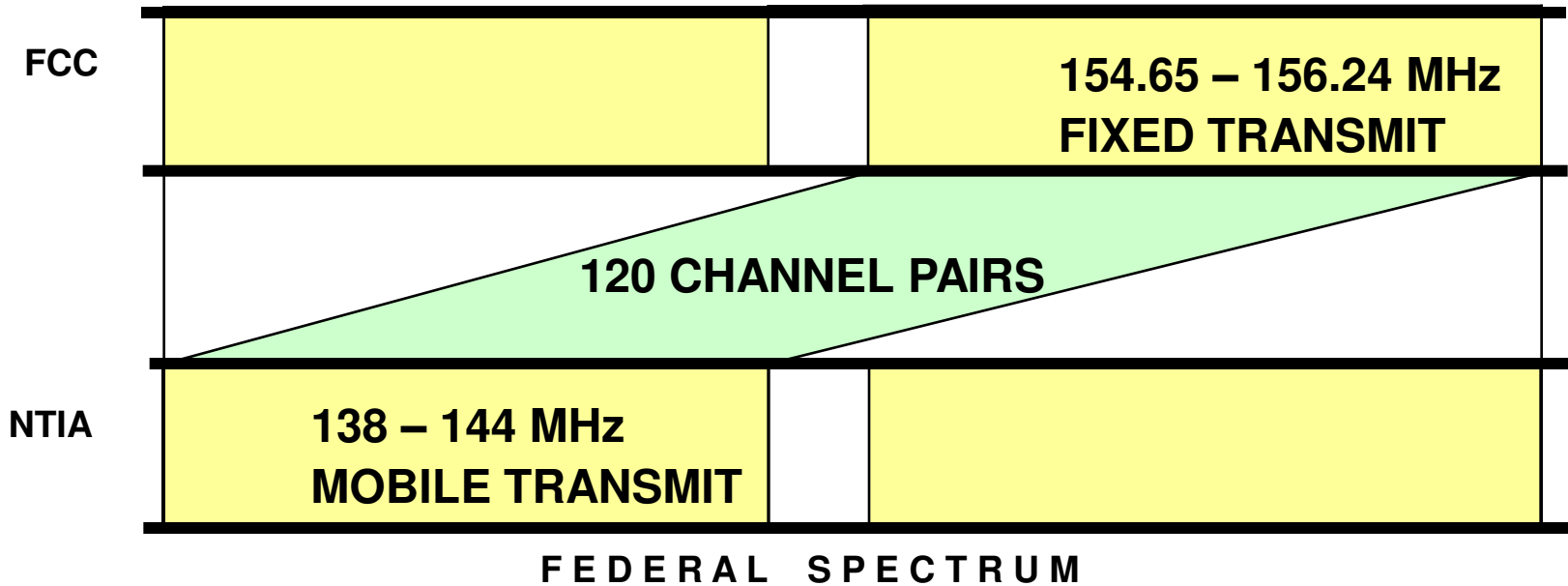
First Statewide, multi-agency, multi-jurisdictional public safety Trunking system in the United States” FCC MOO DA03-2612, 7 Aug 2003

Coverage



Shared Spectrum

STATE AND LOCAL SPECTRUM



The ability to share spectrum between the Federal and Non-Federal government agencies required a waiver from the FCC and a signed agreement between the Department of Defense and the State of Alaska.

Radio Equipment

- Radios
- Combiners
- Zone controllers
- System monitoring equipment
- Encryption equipment
- Power supplies

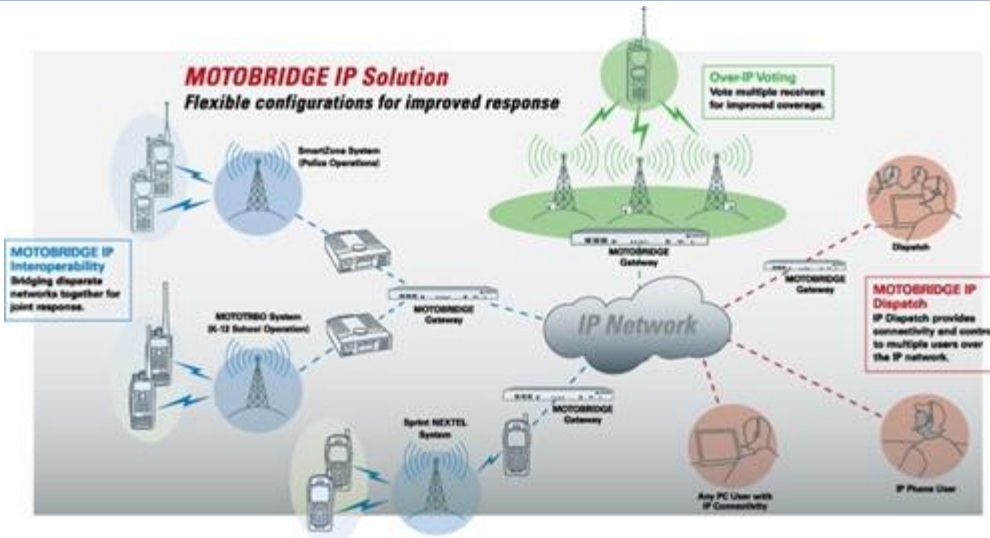


- **State of Alaska Telecommunications System Administered by the State's Enterprise Technology Services (ETS) Division**
- **SATS infrastructure includes shelters, towers, antennas, and power, all maintained by the State of Alaska**
- **Connects ALMR sites, mostly via microwave**
 - **160 microwave SATS Sites**
 - **80 of the 160 are also ALMR Sites**



SATS SITE AT HENEY RANGE

Gateways



- Facilitates ad hoc and permanent bridging of disparate radio channels to establish interoperability with agencies outside of the ALMR System
- Over 30 at dispatch centers throughout the State

Transportables

- Two complete systems stored at JBER and Eielson
- Main components:
 - Communications Shelter
 - Dispatch Shelter
 - Logistics Shelter
 - Tower/Power Skid
 - Satellite Skid (South system only)
 - Transporter
 - Prime Mover (Tug)
 - MESH Network Skid (South system only)
 - 100 portable radios and 50 laptops
- Other capabilities
 - Commercial Internet/Email (SIPR/NIPR Capable)
 - Video Surveillance
 - PSTN Telephone Service – 50 lines
 - Tandberg Tactical VTC

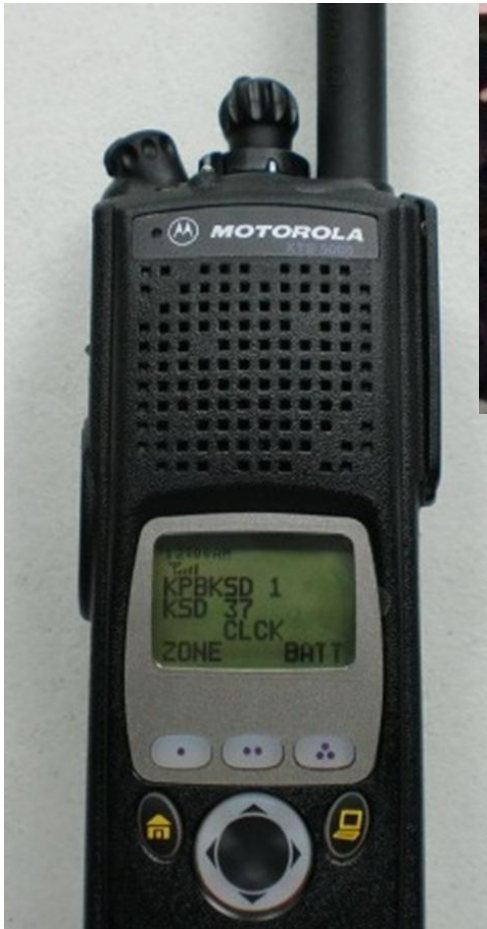


Dispatch Consoles

- Consoles
- Servers
- CAD systems
- Furniture and equipment

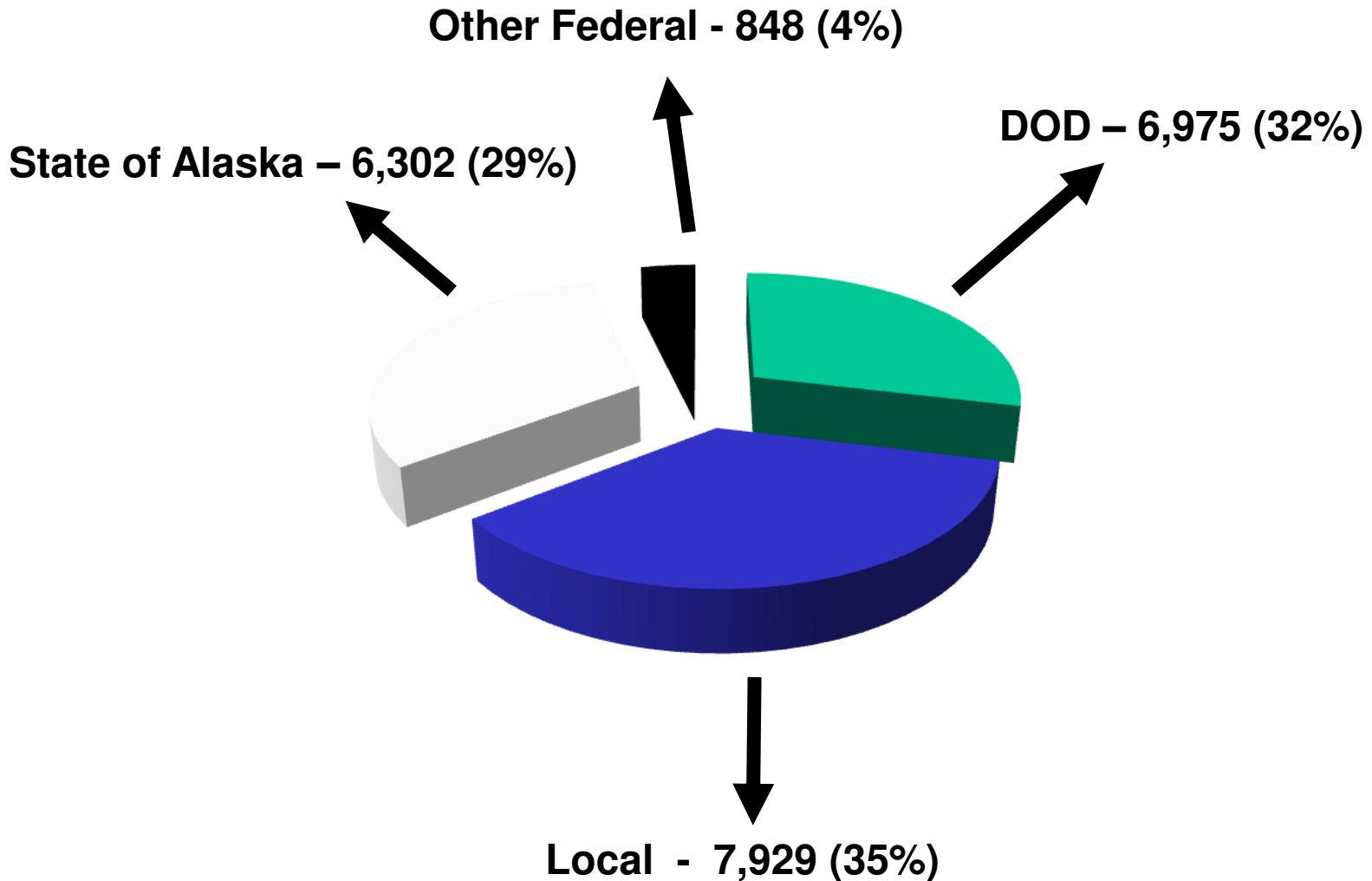


Portable and Mobile Radios



- 28 different portable and mobile radio models have been approved to operate on ALMR
- 8 different manufacturers

Active Radio Distribution



Contracts

- **Three primary contracts support the operations, maintenance and lifecycle requirements associated with the ALMR System**
 - **Infrastructure Operations and Maintenance Services (IOMS)**
 - **Separate, but equal, contracts executed by SOA and DOD provide system management, preventive maintenance, emergency response and System restoral**
 - **Operations Management Services (OMS)**
 - **Single contract executed by SOA, cost shared by user agencies, provides operational oversight, administrative management, User and Executive Council support, daily and emergency operations support**
 - **System Upgrade and Lifecycle Sustainment Services**
 - **Separate contracts executed by SOA, DOD and MOA to provide system upgrade and lifecycle sustainment of the system infrastructure**

System Management Office

- **Mr. Casey Borg, System Manager**
5900 E. Tudor Road
- **Responsibilities**
 - **System Management**
 - **Preventive Maintenance**
 - **System Repair**
 - **Talkgroup Setup and Management**
 - **Subscriber Authorization**
 - **Outage and Uptime Reporting**
 - **Asset Management**
 - **System Security**

Operations Management Office

- **Mr. Del Smith, Operations Manager**
5900 E. Tudor Road
- **Responsibilities**
 - **Governance Management**
 - **Policies and Procedures**
 - **Member Coordination**
 - **Talkgroup Sharing Agreements**
 - **Budget Development**
 - **Records and Document Management**
 - **Preventive Maintenance Oversight**
 - **Security and Procedure Audits**

SAFECOM Interoperability Continuum

■ Interoperability Continuum Success Elements

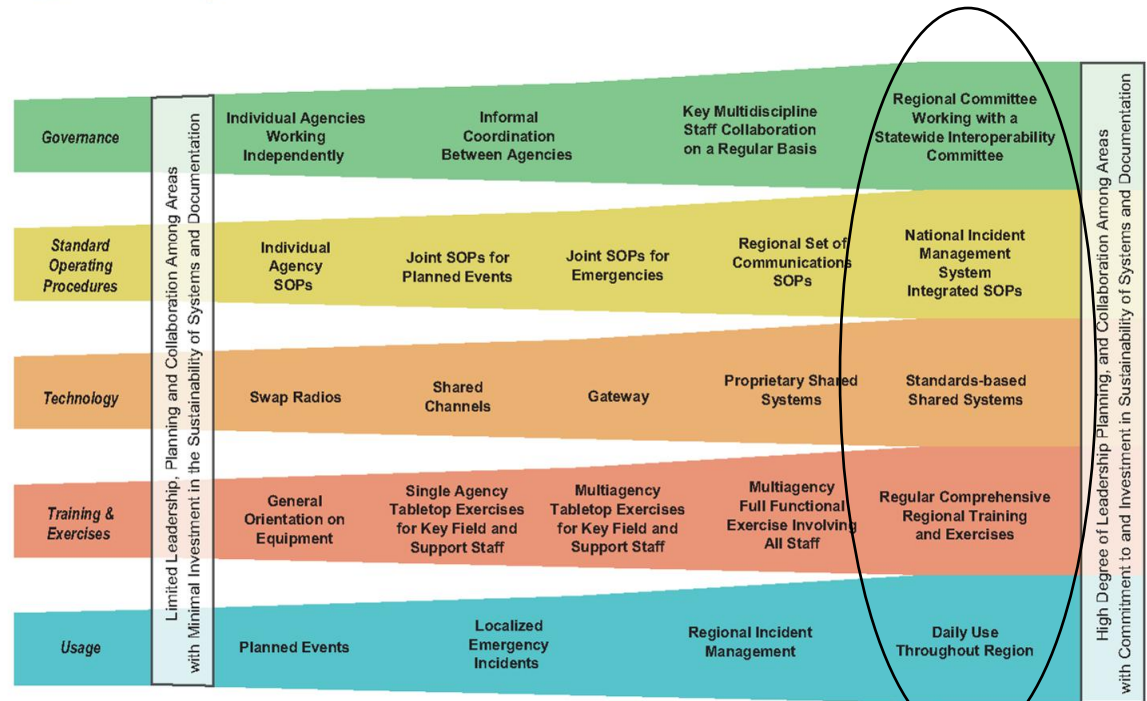
- Governance
SIEC/Regional Committee)
- Standard Operating Procedures
NIMS Integrated SOPs
- Technology
Standards Based Shared Systems
- Training & Exercises
Regional comprehensive training and exercises
- Usage
Daily use throughout system

High degree of Leadership, planning and collaboration among areas with commitment to and investment in sustainability and documentation



Homeland Security

Interoperability Continuum



Minimal Level

Interoperability Continuum

Optimal Level

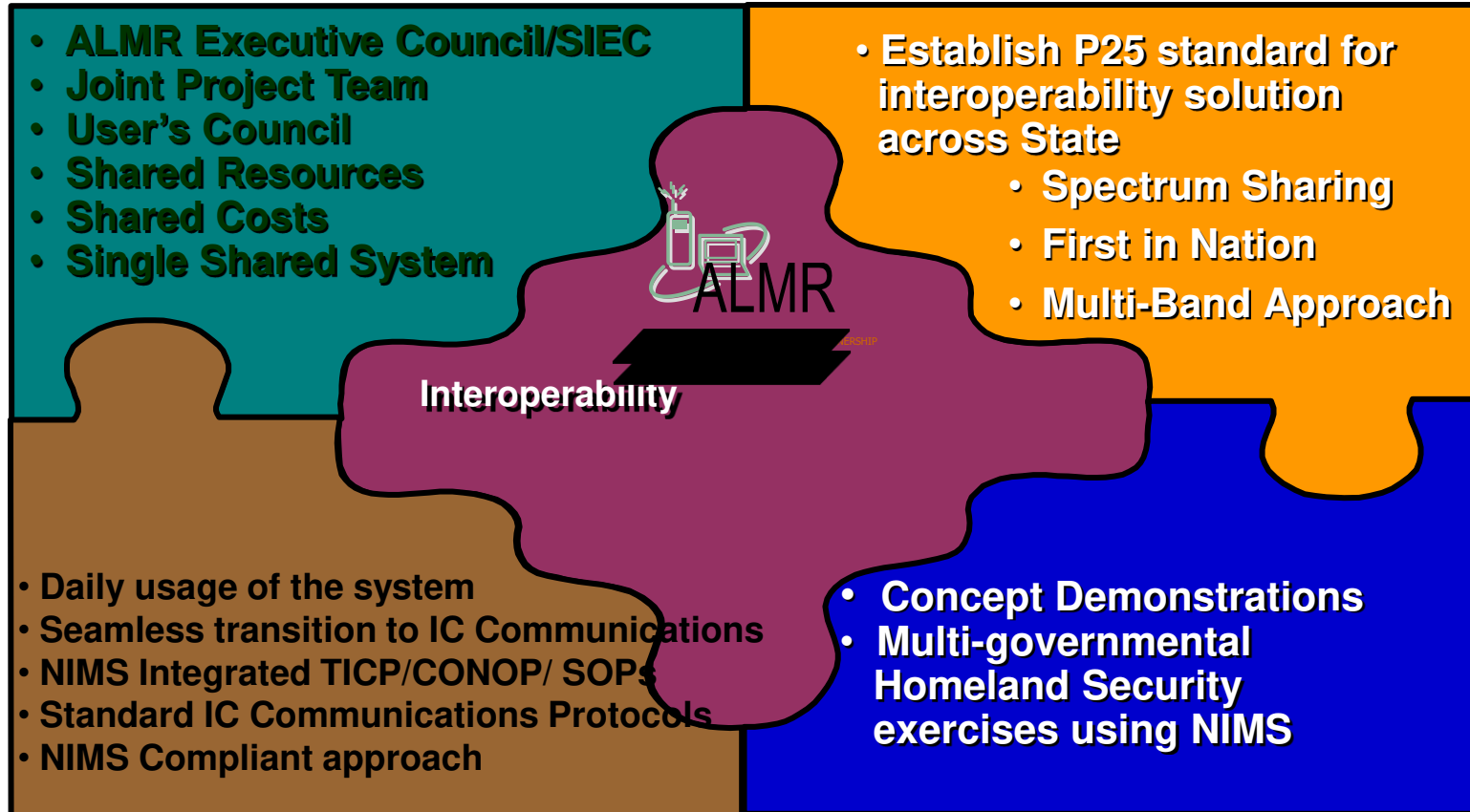
SAFECOM Interoperability Continuum

Where Does ALMR Stand

ALMR was assessed to be in the top 5% of the most mature first responder communications systems in the United States

Governance

Technology



Usage/SOP

Training/Exercise

Major Milestone Decisions/Actions

- **Lifecycle Management Services Contract renewal – Next 30 days**
- **Radio frequency spectrum sharing agreement renewal – CY14**
- **IOMS contract renewal – Next 90 days**
- **System end-of-life replacements – Next 2 - 5 years**

Questions/Discussion

“After each major [catastrophic] event in recent history, the most glaring indication of success or failure by responding agencies has been their ability to effectively communicate with each other.”

*International Association of Chiefs of Police:
“Leading from the Front pg 9”*