

Meeting Highlights

- Members received briefings on emerging 5G technologies, the Department of Homeland Security (DHS) Science and Technology (S&T) Directorate projects, National Governors Association (NGA) Workshops accomplishments, and how modern cybersecurity threats have affected nearly every major industry
- A keynote presentation was delivered by Jeanette Manfra, Assistant Secretary for the DHS Office of Cybersecurity and Communications (CS&C), which focused on reducing cyber risk through increased coordination among stakeholders and decision makers
- Members also received updates from the SAFECOM committees, task force, and working groups, as well as development efforts for the *2019 National Emergency Communications Plan (NECP)* and *2018 State, Local, Tribal, and Territorial (SLTT) Governance Guide*

Action Items

#	Description	Owner	Status
1	Continue to relay updates and information regarding the Communications Section Task Force back to agencies, organizations, and associations to increase user buy-in	SAFECOM Members	In Progress
2	Continue to develop recommendations for new SAFECOM Membership	Membership Working Group / Governance Committee	In Progress
3	Develop updated and streamlined SAFECOM Charter	Governance Committee	In Progress
4	Continue to develop <i>Request for Proposal (RFP) Best Practices for Land Mobile Radio (LMR) Subscriber Units Development Timeline</i>	Technology Policy Committee	In Progress
5	Develop marketing and outreach materials related to the <i>Lifecycle Planning Guide</i>	Funding & Sustainment Committee	In Progress
6	Continue to update <i>Public Safety Communications Evolution Brochure</i> language and finalize timeline and convergence graphics	Education & Outreach Committee	In Progress
7	Consider how SAFECOM can become involved in emerging and advanced technologies, such as Internet of Things (IoT), increased connectivity, smart cities, and 5G	SAFECOM Members	Not Started
8	Consider SAFECOM's role developing cybersecurity guidance and best practices, given the ever increasing threat resulting from increased connectivity among devices, apps, and systems	SAFECOM Members	Not Started

Welcome to Oregon: An Emergency Communications Perspective of the State



Fig. 1: Mike Duyck

Speaker: Mike Duyck, Fire Chief, Tualatin Valley Fire & Rescue

Objective: Welcome members to Oregon, providing details on the emergency communications efforts in the state.

Key Points: Chief Mike Duyck highlighted the value of Oregon's active Statewide Interoperability Executive Council (SIEC)¹. He noted successful aspects of their governance structure, including local government representatives serving in the chair and vice chair positions.

Highlighting broadband capabilities in the

state, Mike commented on the effectiveness of appointing the SIEC as the state's liaison to FirstNet. Priority and pre-emption services are already excelling under the broadband capability. He also highlighted major progress in mobile applications, such as

"Data Informs." Data collected saves lives and money every day, while providing great efficiencies.

- Chief Mike Duyck, Chief—Tualatin Valley Fire & Rescue; Oregon SIEC Chair

¹ Oregon's governing body established via statute.

PulsePoint—an app used to alert citizen responders and verified responders (e.g., off-duty firefighters) of cardiac arrest calls within .8 mile.

Communications Section Task Force Update

Speakers: Chris Lombard, Communications Section Task Force Chair; Don Bowers, Communications Section Task Force Vice Chair

Objective: Participate in a discussion pertaining to the work accomplished and planned by stakeholders on the Communications Section Task Force.

Key Points: The complexity of communications management and the execution of services required at an incident or event has expanded significantly since the establishment of the National Incident Management System (NIMS) Incident Command System (ICS). The Communications Section Task Force was formed by SAFECOM and the National Council of Statewide Interoperability Coordinators (NCSWIC) to address gaps within the NIMS/ICS. Currently, the Communications Unit is positioned under the Logistics Section within ICS. The Logistics Section is staffed by personnel with knowledge, skills, and abilities oriented to providing telephony and radio network connectivity while serving as the touchpoint for communications services and equipment. With the now added responsibilities for providing data connectivity at most all incidents, the essential personnel required for delivering communications now exceeds the span of control currently managed at the unit level. During this facilitated discussion, Task Force leadership presented the Task Force’s proposal to create a Communications Section within the NIMS/ICS to adequately manage the span of control for delivering land mobile radio (LMR) and information technology (IT) services. Because of increasing communications support-staff complexity, the proposed Communications Section will include the existing Communications Unit, elevated to the Branch level and add an Information Technology Service Branch with requisite positions. This Section will include the traditional communications unit functions for voice (e.g., COML, COMT, etc.), as well as functions for broadband (e.g., IT Service Unit Leader, IT Infrastructure Manager, Unified IT and Communications Help Desk) and video. The Task Force has received growing buy-in from partner agencies and emphasized the importance of SAFECOM members and their associations supporting the Task Force, and members relaying this information back to their organizations. The Task Force will continue to build support from key partners; engage them in building a nationwide governance framework; finalize the IT Section Unit Leader Courses (Alpha and Beta coming early Summer 2018); and engage the Federal Emergency Management Agency National Integration Center (NIC) and National Advisory Council (NAC).

SAFECOM Committee Updates

Governance Committee: Don Bowers, Chair

The Committee’s primary activity in the recent months has been the membership application process. The Membership Working Group (MWG) solicited applications through March 1, 2018, and 28 at-large member applications are being considered. The MWG has completed standard interviews for each applicant. The MWG, along with the Governance Committee and the SAFECOM Executive Committee (EC), agreed to move two applicants forward through the application process who are current SAFECOM members: Chris Lombard, primary representative for the InterAgency Board for Emergency Preparedness & Response, and Paul Patrick, alternate representative for the National Association of State Emergency Medical Service (EMS) Officials. The MWG continues to vet the remaining applicants. The next priority for the Committee is to develop an updated and streamlined SAFECOM Governance Charter and supplemental bylaws document.

SAFECOM is pleased to welcome the following new representatives:

- **Sean Britton**, National Association of Emergency Medical Technicians (NAEMT)
- **Dan Henry**, National Emergency Number Association (NENA)
- **Patrick Rollins**, National League of Cities (NLC)
- **Dana Wahlberg**, National Association of State 9-1-1 Administrators (NASNA)
- **Karen White**, National Association of Telecommunications Officers and Advisors (NATOA)
- **Chris Lombard**, SAFECOM At-Large, Seattle Fire Department
- **Paul Patrick**, SAFECOM At-Large, Utah Department of Health

Technology Policy Committee: Ted Lawson, DHS Office of Emergency Communications (OEC); Mark Buchholz, SAFECOM-NCSWIC Next Generation 911 (NG 911) Working Group Chair

The Technology Policy Committee continues to develop the RFP Best Practices for LMR Subscriber Units Toolkit, which will contain four different products upon completion. The RFP “Do’s and Don’ts” and the RFP Best Practices for LMR Subscriber Units Roles and Responsibilities documents are complete. The toolkit will also include an RFP Best Practices for LMR Subscriber Units Development Timeline, which is currently under development, and an RFP Reference Guide to assist with RFP development. The Committee also completed the Inter RF Subsystem Interface (ISSI) Fact Sheet, which was developed in coordination with the Federal Partnership for Interoperable Communications (FPIC). The Identity, Credentialing, and Access Management (ICAM) Working Group has established a sub-working group to address ICAM policy and implementation questions related to the Trustmark Framework via a position paper and brochure.

The NG 911 Working Group met in Portland the day before, Wednesday, May 16, 2018, to discuss the revised version of the *Cyber Risks to Next Generation 911* document, also known as the “Cybersecurity Primer.” Additionally, the Working Group reviewed and gathered feedback on the restructured Task Force on Optimal Public Safety Answering Point (PSAP) Architecture (TFOPA) Scorecard. In the afternoon, the Working Group hosted an open session, which included presentations from Ms. Diane Pelletier, Chairperson, NG 911 Coalition of the Willing, Director New Brunswick 911 Bureau; Ms. Laurie Flaherty, Coordinator, National 911 Program, U.S. Department of Transportation; and Mr. Mark Buchholz, Director, Willamette Valley, Oregon, 911 Communications.

Funding and Sustainment Committee: Mel Maier, Chair

The updated *Emergency Communications Lifecycle Planning Guide* has been completed. The Committee will now focus on marketing and outreach materials related to the *Lifecycle Planning Guide*, including development of resources such as a factsheet, *Mission Critical* article, blog post, elevator speech, and social media content. These marketing materials are expected to be completed during the summer. The Committee also started scoping a *Value Analysis Guide* product similar to the *LMR Trio*, focused on public safety stakeholders such as public safety communication personnel and specialists, high-level public safety decision-makers and financial officers, and external public safety decision-makers. The Committee expects to work on the *Value Analysis Guide* into the fall. Once the *Value Analysis Guide* is completed, the Committee plans to undertake an update of the *Funding Mechanisms for Public Safety Communications* document.

Education and Outreach Committee: Chris Lombard, Chair

The Education and Outreach Committee continues to work on revising the *Public Safety Communications Evolution Brochure*, including developing new timeline and convergence graphics. The Committee is in the process of finalizing the timeline graphic, continues to work with subject matter experts to update language, and has recently completed the convergence graphic. The Committee has begun scoping a succession planning tool to help public safety agencies better identify and prepare for personnel changes in public safety communications. The Committee is still determining specific audience(s) and what type of resources will be developed as a part of the tool. Pending budgetary status, the Committee also plans to draft a script for the SAFECOM Interoperability Video later this year.

Facilitated Discussion: The Future of Emergency Communications

SAFECOM leadership highlighted themes from throughout the day:

- The value of sharing lessons learned and best practices following major incidents
- The need for legislative support and funding
- The continued relevance of governance driving the adoption, integration, and execution of new and emerging technologies
- How guidance documents balance discussions related to the continued use of LMR technologies alongside new and emerging technology
- Challenges related to increased connectivity of systems and a lack of guidance on how to achieve interoperability in an increasingly complex emergency communications environment
- Opportunities for SAFECOM to develop guidance on the integration of new and emerging technologies, and how foundational elements of the interoperability continuum inform those materials

Emerging Technologies: 5G and Internet of Things – Potential Public Safety Impacts

Speaker: Robert Dew, DHS OEC

Objective: Engage in discussions on emerging and advanced technologies (e.g., IoT, increased connectivity, smart cities, 5G, etc.) and SAFECOM's role influencing the path forward.

Key Points: Rob provided a high-level overview of 5G and IoT technologies, including potential benefits of IoT for public safety, key 5G issues, current priority services initiatives, and 5G standardization timelines. IoT goes beyond simply connecting objects to the Internet—it allows physical objects to intelligently self-identify and communicate with other devices, creating a new model of information sharing. Public safety communications has already been adapting to IoT, and the use of smart technologies (e.g., smartphones, tablets, laptops, navigational systems) has already demonstrated both benefits and risks. For instance, connected sensors (e.g., biometric, flood, heat, smoke), digital signage, and wearable technology are already enhancing planning and response activities. However, each device risks intrusion, increasing the vulnerability of the connected system.

Rob reviewed a case study in 5G smart city design considerations, using Portland as an example. He also discussed the potential impacts of emerging technologies on public safety communications (e.g., spectrum sharing); priority service considerations; security challenges; differences in provisioning, administration, and network operations; and device and IoT impact. Continued awareness and assessment of IoT will be important to remedy performance and security challenges in advance of implementation. Considering public safety's unique requirements, continued IoT research and development will fuel a market of beneficial, secure "things" to assist responders in their mission. Public safety should also remain aware of the security, scale, and congestion challenges faced by service providers and network administrators, while actively educating first responders on how to control and command connected, cross-platform devices. The life-and-death costs of remedying security vulnerabilities and connectivity issues, while operating in an IoT environment, are too high for public safety to be an observer in the growth of IoT. Resolving the issues will require collaboration with government, industry, and academia. Potential opportunities for SAFECOM involvement may include encouraging available, resilient, prioritized, and secure 5G public safety communications; participating in evolving trends in standards, testing, trials, and vendor development; developing public safety use cases and operational requirements for 5G; and developing guidance on issues and concerns to be addressed through governance, technology advancements, service agreements, standard operating procedures (SOP), and/or training and exercises.

DHS Science & Technology Update

Speaker: Sridhar Kowdley, DHS Office for Interoperability and Compatibility (OIC)

Objective: Gain insight on S&T's recent projects, accomplishments, and upcoming events.

Key Points: Sridhar emphasized the need to balance traditional priorities (i.e., promote standards) while elevating cutting edge initiatives (e.g., big data analytics). DHS S&T First Responders Group administers the Next Generation First Responder (NGFR) Apex Program, which supports projects related to Integration Demonstrations, the NGFR Integration Handbook, and Jamming Exercises. NGFR holds numerous integration demonstrations to test and showcase the interoperability of technologies, such as NGFR Harris County Operational Experimentation, December 3-7, 2018, in Houston, Texas, which aims to integrate first responder technologies to enhance the mission-response capabilities of Houston-area responders and the U.S. Coast Guard. NGFR has also partnered with state and local first responder communities to provide advanced automated analytics and intelligence through the Assistant for Understanding Data through Reasoning, Extraction and sYnthesis, or AUDREY.

Charlie Sasser, Kevin McGinnis, and Chris Lombard have been working to reintroduce the Information Sharing Assessment Tool (ISAT) for SAFECOM's consideration. DHS S&T's First Responders Group originally developed the tool for use by public safety officials and first responders from across diverse communities nationwide to identify current information sharing capabilities and gaps, today and into the future, in 20 minutes or less. Driven by public safety stakeholder requirements, the ISAT aims to facilitate discussions across agencies and disciplines on information sharing; identify community capabilities and challenges; and empower communities to develop an action plan to address their information sharing gaps and publicize their progress toward improvement. Nationwide adoption of the ISAT will empower public safety leadership to quickly conduct strategic and action planning with a focus on information sharing as a baseline to assess their community's most pressing issues and to measure improvement. SAFECOM, OEC, and S&T will continue to work together to identify communities to demonstrate the pilot.

Keynote Speaker: Reducing our Cyber Risk through Engagement



Fig. 2: Jeanette Manfra

Speaker: Jeanette Manfra, Assistant Secretary for CS&C

Objective: Hear from Keynote and long-time supporter of SAFECOM on DHS's current efforts to reduce cyber risk through coordination with stakeholders across the public safety community.

Key Points: DHS strives to expand collaboration to all relevant government and industry partners on a number of cyber efforts, which strengthens the nation's collective defense model and ensures more effective prevention, detection, and mitigation. Americans rely on critical services and functions (i.e., electric, financial, communications)—many of which are run by the private sector. In order to lead the world in cyber threat prevention, the public safety community must formalize partnerships with those building and managing critical services and functions to ensure the development, buy-in, and adoption of protective mechanisms. Foundational concepts, such as the Interoperability Continuum, remain relevant

as a lens through which we explore new issues, like cybersecurity and data management. SAFECOM is positioned to complement this thinking as it considers how to more effectively guide our country toward secure, interoperable solutions by working across information technology, energy, financial, and transportation sectors. SAFECOM must consider developing guidance on the vast amounts of data being exchanged and how responders use and manage information as well as related risks and unique threats resulting from increased connectivity among devices, apps, and systems.

State of the Industry – Modern Threats in Targeted Verticals

Speaker: Steve Povolny, Head of Advanced Threat Research (ATR) at McAfee LLC

Objective: Hear from cybersecurity expert on safeguarding public safety networks and how the evolving threat landscape should increasingly shape our approach to privacy and security using lessons learned from recent real-world scenarios.

Key Points: Steve provided members with greater awareness of security threats in the cyber space, with a focus on vulnerabilities. Today, nearly every major industry has been targeted. As technology advances, the number of cyber threats increase as attacks become more complex. For instance, he described how medical equipment can be altered to mimic heart rates for both physical attacks and as a distraction mechanism in an attempt to carry out a larger disturbance. He also explained how any equipment connected to a network can be used to infiltrate other systems thought to be secure, including communications equipment, devices, and applications used during response. Steve conveyed the seriousness of the situation the world faces today. As greater technology is created and implemented, there needs to be an understanding of the downside to this technology since security measures have not been able to keep pace with the technology boom. Steve suggested the need for greater regulation and oversight of breaches and exposures. He stated more companies and agencies should be implementing check-box compliance. He identified the need for companies and agencies to enforce complex passwords, and simplify cybersecurity training by going back to the fundamentals of end-user training with more in-depth hands-on training.



Fig. 3: Steve Povolny

National Governors Association Workshop Update

Speakers: Tim Blute, NGA; Mark Grubb, DHS OEC

Objective: Receive updates on efforts to conduct 2018 NGA Policy Academy Workshops.

Key Points: Tim provided background information on NGA's partnership with OEC, the intent of the workshops, and potential impacts of these activities for the emergency communications community. Mark provided the group with details emerging out of the other workshops in Albuquerque, New Mexico, and New Orleans, Louisiana, to include:

- **Changing Needs and Public Perceptions** - Large-scale incidents are becoming more frequent and complex, and the public's use of technology and expectations of public safety are changing
- **Sustaining LMR** - LMR will remain a critical tool for emergency communications now and in the future, even as new broadband technologies come online for emergency communications
- **New Partners/Expanding Governance** - Governance and planning that are representative of the full landscape (i.e., the full scope of the Emergency Communications Ecosystem) are increasingly important as public safety adopts new technologies

- **Interoperability Continuum Relevance** - There is a perception that the issues surrounding emergency communications are purely technology related. The community needs to be operable before it can be interoperable, which requires close coordination and strong relationships
- **The Value of the Statewide Interoperability Coordinator (SWIC)** - Each state needs a champion to shepherd operability and interoperability. The SWIC is often the champion that works across the state to reduce stovepipes among information technology, 911, LMR, and broadband

Mark spoke to some of the major challenges identified by stakeholders, such as the need to support technology integration through stronger governance, legislative support, and funding. Mark provided information on post-workshop support to states, including NGA's and OEC's intents to assist with action plan implementation and the development of letters to the Governors to inform them of outcomes from the workshops.

2019 NECP and 2018 SLTT Governance Guide Update

Speakers: Eric Runnels, DHS OEC; Cary Martin, DHS OEC

Objective: Gain insights into development efforts for the *2019 NECP* and the *2018 SLTT Governance Guide*.

Key Points: The SAFECOM Nationwide Survey, which closed in March 2018, reached statistical validity and the data is being used to inform the National Communications Baseline Assessment. Eric provided some initial results gleaned from the data: 1) strategic planning processes changed significantly; 2) use of IP-based systems nearly tripled; 3) use of "aging" technology systems (i.e., +10 years) increased slightly; 4) plans to replace or upgrade aging systems within a "greater than 10 years" timeframe notably increased, however, those using alternative systems (i.e., LTE, LMR/LTE converged) reported reduced timeframes for system replacement; and 5) cybersecurity attacks are occurring, and response planning and preparation is limited. In addition, the SAFECOM-NCSWIC NECP Working Group was established in April and will meet regularly throughout the summer. OEC will work to include stakeholder-driven and -validated timelines and metrics associated with the goals into the plan, which OEC aims to publish in December 2019. OEC, in coordination with the 2018 SLTT Governance Guide Working Group, is using their emergency communications expertise across all levels of government to update the *2018 SLTT Governance Guide*. The goal of the update is to build collaborative governance structures across all aspects of emergency communications (e.g., 911, LMR, broadband, and alerts & warnings).

In Memory...

In February, our dear friend and colleague, Tom Sorley, unexpectedly passed away. Over a career spanning more than 30 years, Tom was a force for good for public safety communications. He began his career at the city of Orlando 911 Center and later as the radio manager, while the city was building its 800 MHz LMR system. Tom became the radio manager for Orange County, Florida, in 2000, where he regionalized the county's LMR network. A few years later, he moved to Houston, Texas, most recently serving as the city's deputy Chief Information Officer and Deputy Director for Information Technology for Public Safety, leading the deployment of Houston's \$130 million Project 25 system. He was also instrumental to the city's communications efforts in the wake of Hurricane Harvey in 2017.



Fig 4: Tom Sorley

Tom also served as FirstNet's Public Safety Advisory Committee Vice Chairman and Chairman, succeeding previous SAFECOM member, Harlin McEwen, in 2017. Tom was long-time Chairman of the National Public Safety Telecommunications Council Technology and Broadband Committee, and served on SAFECOM, representing the US Conference of Mayors.

All who knew Tom remember him for his brilliant mind and endless humor. He was able to explain the most technical of concepts to people in a way that was easily understood. His contributions to public safety were boundless. He will be greatly missed.

Future Meetings

Meeting	Type/Location	Date
ICAM Sub-Working Group	Atlanta, Georgia	May 29-30, 2018
Communications Section Task Force ITSL Alpha Course	Fairfax, Virginia	June 4-8, 2018
SAFECOM EC	Conference Call	June 14, 2018
Communications Section Task Force ITSL Beta Course	Houston, Texas	July 9-13, 2018
SAFECOM Governance Committee (Tentative)	Washington, DC	July 10, 2018
SAFECOM EC	Conference Call	August 9, 2018
State, Local, Tribal, and Territorial Governance Guide Working Group	Shawnee, Oklahoma	September 11, 2018
Education & Outreach Committee	Denver, Colorado	September 13, 2018
SAFECOM/NCSWIC Meetings	Norman, Oklahoma	December 3-7, 2018

Participants

SAFECOM Members	
Darryl Ackley	National Association of State Chief Information Officers (NASCIO)
Bill Bamattre	Metropolitan Fire Chiefs Association (Metro Chiefs)
Don Bowers	SAFECOM At-Large; Governance Committee Chair
Sean Britton	National Association of Emergency Medical Technicians (NAEMT)
Mark Buchholz	SAFECOM At-Large (Willamette Valley 9-1-1)
Rick Comerford	International Association of Emergency Managers (IAEM)
Michael Davis	SAFECOM At-Large (Ulster County 9-1-1 Emergency Communications)
Mike Duyck	Metro Chiefs (Alternate)
Len Edling	SAFECOM At-Large (Merrionette Park Fire Department)
Paul Fitzgerald	National Sheriffs' Association (NSA); Governance Committee Vice Chair
Joe Galvin	National Council for Statewide Interoperability Coordinators (NCSWIC)
Michael Garcia	National Governors Association (NGA) (Alternate)
Dan Henry	National Emergency Number Association (NENA)
Tracey Hilburn	Association of Public-Safety Communications Officials International (APCO) (Alternate)
Michael Jacobson	SEARCH, National Consortium for Justice Information and Statistics
Jay Kopstein	SAFECOM At-Large (New York State Division of Homeland Security & Emergency Services)
Jonathan Lewin	Major Cities Chiefs Association (MCCA)
Chris Lombard	The InterAgency Board for Emergency Preparedness & Response; SAFECOM At-Large (Seattle Fire Department); SAFECOM Vice Chair; Education & Outreach Committee Chair
Mel Maier	Major County Sheriffs' of America (MCCA); Funding & Sustainment Committee Chair
Philip Mann	American Public Works Association (APWA)
Kevin McGinnis	National Association of State EMS Officials (NASEMSO)
Ferdinand Milanés	American Association of State Highway and Transportation Officials (AASHTO)
Lloyd Mitchell	Forestry Conservation Communications Association; Funding & Sustainment Committee Vice Chair
Michael Murphy	SAFECOM At-Large (Baker Police Department); SAFECOM Vice Chair; Education & Outreach Committee Vice Chair
Jon Olson	National EMS Management Association (NEMSMA)
Paul Patrick	SAFECOM At-Large (Utah Department of Health); NASEMSO (Alternate)
Gerald Reardon	SAFECOM At-Large (City of Cambridge Fire Department); SAFECOM Chair; SAFECOM Technology Policy Committee Chair
Patrick Rollins	National League of Cities (NLC)
Charlie Sasser	National Association of State Technology Directors (NASTD)

John Sweeney	National Criminal Justice Association (NCJA)
John Vallarelli	SAFECOM At-Large (Metropolitan Transportation Authority Police Department)
Steve Verbil	SAFECOM At-Large (Division of Statewide Emergency Telecommunications)
Dana Wahlberg	National Association of State 9-1-1 Administrators (NASNA)
Holly Wayt	APCO
Karen White	National Association of Telecommunications Officers and Advisors (NATOA) (Alternate)

Absent Members

Andrew Afflerbach	NATOA
Doug Aiken	National Public Safety Telecommunications Council (NPSTC)
Steve Cassano	National Association of Regional Councils (NARC)
Anthony Catalanotto	SAFECOM At-Large (Fire Department New York)
Josh Goldmark	SAFECOM At-Large (West Cities Police Communications)
Terry Hall	National Association of Counties (NACo)
Brian Howard	National Congress of American Indians (NCAI)
George Perera	SAFECOM At-Large (Miami-Dade Police Department)
Gary McCarraher	International Association of Fire Chiefs (IAFC)
Eddie Reyes	International Association of Chiefs of Police (IACP)
Brad Richy	National Emergency Management Association (NEMA)
Colin Rizzo	SAFECOM At-Large (Port of Houston Authority)
Shirrell Roberts	NGA
Penny Rubow	SAFECOM At-Large (Arkansas Wireless Information Network)
Paul Szoc	International Municipal Signal Association (IMSA)
Laura Waxman	U.S. Conference of Mayors

Federal Members and Speakers

Ralph Barnett, III	Department of Homeland Security (DHS) Office of Emergency Communications (OEC)
Rob Dew	DHS OEC
Laurie Flaherty	Department of Transportation (DOT)
Mark Grubb	DHS OEC
Ron Hewitt	DHS OEC, Director
Sridhar Kowdley	DHS, Science and Technology (S&T)
Ted Lawson	DHS OEC
Jeanette Manfra	DHS Office of Cybersecurity and Communications (CS&S), Assistant Secretary
Cary Martin	DHS OEC
Alan Massie	Federal Bureau of Investigation (FBI)
Brenda McMahan	DHS OEC
Steve Povolny	McAfee, Inc.
Adrienne Roughgarden	DHS OEC
Dick Tenney	DHS OEC
Deante Tolliver	DHS OEC
Kristi Wilde	FirstNet