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Full NPSTC Meeting

Friday, March 31, 2017
Call In: (510) 227-1018 | Conference ID: 192 7086
Webinar Access Information : https://join.me/NPSTCsupport1
Submit Questions Online via support@npstc.org
Technical Tips

• Webinar Access Information: https://Join.Me/NPSTCsupport1
• Online participants submit questions to support@npstc.org.
• Do not use the Join.Me chat bubble, messages will be displayed to all.
• Please mute your phone to minimize background noise. You may also press *6 to mute your line.
• Please do not put your line on hold, if you have the “music on hold” feature.
Welcome and Opening

• Doug Aiken, NPSTC Vice Chair
  – Call to Order
  – Pledge of Allegiance
Pledge of Allegiance

NPSTC is a federation of organizations whose mission is to improve public safety communications and interoperability through collaborative leadership.
Role Call

Governing Board Organizations

- American Association of State Highway Transportation Officials (AASHTO)
- American Radio Relay League (ARRL)
- Association of Fish & Wildlife Agencies (AFWA)
- Association of Public-Safety Communications Officials-International (APCO)
- Forestry Conservation Communications Association (FCCA)
- International Association of Chiefs of Police (IACP)
- International Association of Emergency Managers (IAEM)
- International Association of Fire Chiefs (IAFC)
- International Municipal Signal Association (IMSA)
- National Association of State Chief Information Officers (NASCIO)
- National Association of State Emergency Medical Services Officials (NASEMSO)
- National Association of State Foresters (NASF)
- National Association of State Technology Directors (NASTD)
- National Council of Statewide Interoperability Coordinators (NCSWIC)
- National Emergency Number Association (NENA)
- National Sheriff’s Association (NSA)
Welcome to the Associate, Affiliate and Liaison member representatives.

- Associate Organizations
  - Canadian Interoperability Technology Interest Group (CITIG)
  - Utilities Telecom Council (UTC)

- Affiliate Organizations
  - Alliance for Telecommunications Industry Solutions (ATIS)
  - Open Mobile Alliance (OMA)
  - Project 25 Technology Interest Group (PTIG)
  - Telecommunications Industry Association (TIA)
  - TETRA Critical Communications Association (TCCA)
Welcome to the Associate, Affiliate and Liaison member representatives.

• Liaison Organizations
  - Federal Communications Commission (FCC)
  - Federal Emergency Management Agency (FEMA)
  - Federal Partnership for Interoperability Communications (FPIC)
  - National Telecommunications and Information Administration (NTIA)
  - Public Safety Communication Europe (PSCE)
  - SAFECOM Program
  - U.S. Department of Homeland Security, Office for Interoperability and Compatibility (OIC)
  - U.S. Department of Homeland Security, Office of Emergency Communications (OEC)
  - U.S. Department of Justice (US DOJ)
  - U.S. Department of the Interior (US DOI)
  - University of Melbourne Center for Disaster Management and Public Safety (CDMPS)
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3rd Generation Partnership Project (3GPP) Standards

Andy Thiessen, Technology and Broadband Committee Vice Chair
via teleconference
3rd Generation Partnership Project (3GPP) Standards

• Release 14
  – Coming to a rapid close.
  – Focused on common use of mission critical components (PTT, data, and video).

• Release 15
  – Phase 1 of the 3GPP initiative to create 5G standards
  – Some LMR LTE interoperability work is proposed
    • How are MC-PTT systems interconnected with LMR systems
    • SA6 meeting in China on April 3rd to finalize study items
  – LTE Direct Mode work will not occur in Release 15.
  – This release was designed to have a small set of features in order to speed the deployment timeline.
• Release 16
  - Phase 2 of the 3GPP initiative to create 5G standards
  - Additional study of Direct Mode architecture options
    • 3GPP is looking at Vehicle to “everything” (V2x)
    • FirstNet will examine if V2x may work for public safety direct mode by studying gaps between V2x proposals and what first responders need.
• SA6 Working Group Migration
  – SA6 Working Group was established by 3GPP to work on mission critical services and was initially dedicated to public safety.
  – SA6 will either transition to include non mission critical work or it will be phased out (unlikely).
  – Expansion of SA6 work would allow more visibility to commercial operators and may result in them commercializing some public safety services. The U.S. supports this change.
  • There is some resistance to this approach.
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Internet of Things (IoT) Working Group

Barry Fraser, Chair
Public Safety Internet of Things (IoT)

- This new Working Group was approved by Governing Board on January 24, 2017.
  - PS IoT has 80 members from public safety, industry and academia.

- The following work items are in the charter:
  - Examine current state of IoT.
  - Examine specific issues that impact public safety.
  - Identify issues and concerns for action by the NPSTC Governing Board.
Public Safety Internet of Things (IoT) continued

• Additionally, the Working Group may:
  – Create outreach materials to educate public safety on IoT.
  – Schedule presentations to discuss IoT usage by public safety agencies.
  – Examine the role of standardization of the IoT ecosystem.
Public Safety Internet of Things (IoT) 

continued

• Working Group Approach
  – Examine current state of IoT.
    • Presentation by NIST on the IoT Green Paper (general IoT focus).
    • Presentation by NIST on the Global City Team Challenge (local government focus).
    • Presentation by DHS S&T on First Responder of the Future (public safety focus).
  – Examine specific issues that impact public safety.
    • IoT and sensor support for various public safety responses.
    • IoT and sensor networks.
    • The role of edge and analytic processing.
  – Identify issues and concerns for action by the NPSTC Governing Board.
    • Advocate for best practices and technical requirements as appropriate.
Radio Programming Compatibility Requirements (Radio PCR)

Tom Sorley, Technology and Broadband Committee Chair
Radio PCR Working Group

• PAM Tool Update
  - Version 6 is being finalized (freeze date 1/27/2017)
  - Compliant with DHS NIFOG Version 1.6.1 (April 2016)
  - Clean up of spreadsheet functionality
  - New manufacturer added: Relm
  - Restructuring administrative control, standardizing passwords
Radio PCR Working Group continued

- **TIA Update**
  - Technical Bulletin will create a standardized data exchange format for basic radio programming.
  - TR-8 Private and Personal Radio Standards Committee is now evaluating the request and comments received from TIA members.

- **Outreach Update**
  - Working with DHS S&T to have PAM Tool checked for compliance with applicable federal standards (e.g. 508 compliance).
  - DHS OEC will post the PAM Tool to the SAFECOM website.
Unmanned Aircraft Systems (UAS)/Robotics Working Group

Dr. Michael Britt, Chair
UAS and Robotics Working Group

• Progress Report
  – First report from the Working Group has been completed
    • Unmanned Air Systems and Robotics – Guidelines for Creating a UAS Program.
    • Identifies specific components that must be evaluated by public safety agencies.

• ACTION NEEDED: Governing Board consideration for approval of this report.
UAS and Robotics Working Group

• Next report will focus on UAS and Aerial Communications.
  – How UAS can provide voice and data communications to support an incident.
  – Will examine both LMR and LTE implementations.

• Future Work
  – Continue to examine public safety use.
  – Schedule additional education presentations on UAS/R use by public safety and new technologies offered by industry.
  – Charles Werner will be discussing a new public safety coalition on UAS later in the meeting, which may impact this Working Group.
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Broadband Deployable Systems

• The Working Group has completed its mission to research and produce a comprehensive report on the use of Broadband Deployable Systems.
  – The Working Group started this effort in August of 2014
  – More than 150 participants have engaged with the Working Group.
  – The final report is 254 pages and includes significant technical detail and discussion.
  – Technical assistance was provided by Defense Research and Development Canada’s Centre for Security Science, PSCR, Simon Fraser University as well as robust industry interaction.
• The report includes five main components:

1. **Operational, technical, and background information.**
   - This information is contained throughout the report in the various chapters relating to specific BBDS components and issues.

2. **Public Safety Technical Requirements**
   - Fifty four technical requirements have been identified which articulate necessary capabilities of BBDS technology.

3. **Deployment Considerations**
   - Assume that BBDS can be owned, dispatched, and operated by local/state/provincial/federal agencies and by NPSBN contractor;
   - Operator training issues for first responders, public safety technicians and FirstNet contractor teams.
The report includes five main components:

4. **Technical Challenges**
   - A series of technical challenges have been identified that may inhibit the capabilities that are expected from the utilization of BBDS by public safety agencies.

5. **Conclusions and Recommendations**
   - 18 conclusions have been identified which illustrate public safety’s expectations of BBDS technology; and
   - 16 action items articulate a “path forward” for the implementation and use of BBDS.
Broadband Deployable Systems

• Broadband Deployable Systems Final Report
  – Upon approval, this report will be transmitted to the FirstNet PSAC and will be publicly released by NSPTC.
  – Additional work in this area will be managed by the Broadband Emerging Technologies Working Group and/or the Technology and Broadband Committee.

• ACTION NEEDED: Governing Board consideration for approval of this report.

• ACTION NEEDED: Governing Board motion to close the Broadband Deployable Systems Working Group
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Broadband Emerging Technologies Working Group

• Working Group Update
  – February session was a panel presentation on LTE Small Cells and the impact to public safety.
    • Gary Monetti moderated the panel which involved four industry participants.
  – March session was a presentation by the Broadband Deployable Systems Working Group on the key findings in their report.
  – April session will tentatively include a presentation by the City of Houston and Harris County on broadband utilization at the Super Bowl.
Broadband Emerging Technologies Working Group

• Working Group Update
  – The Working Group will be reviewing two reports coming from the NPSTC EMS Working Group later in the year:
    • Rural Implications for EMS Usage of Public Safety Broadband.
    • Broadband EMS Applications Update.
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LMR LTE Integration and Interoperability Working Group

Chris Kindelspire, Chair
LMR LTE Integration and Interoperability Working Group

• Three focus areas are being completed:
  – Validate existing 2012 NPSTC Mission Critical Voice requirements
  – Examine additional features and capabilities needed for LMR/LTE interoperability
  – Monitor 3GPP Standards Process regarding LMR/LTE Interworking
Eight use cases have been completed which assess how public safety agencies will communicate during LMR and LTE joint operations.

- Use Case 1: Single Talkgroup PTT Voice Interworking
- Use Case 2: Multiple interconnected LMR/LTE talkgroups
- Use Case 3: Off Network Communications
- Use Case 4: Consultation/Full Duplex Voice
- Use Case 5: Incident Command Monitor/SCAN
- Use Case 6: Emergency and Unit/Talker ID
- Use Case 7: Cellular Push to Talk/Over the Top Push to Talk
- Use Case 8: Encryption
• An additional 12 items are under discussion by the Working Group.
  – These include Individual/Private Call, Radio Monitor, Radio Check
    • Of these features:
      a) Which ones are essential to LMR LTE integration?
         • Which ones are optional?
      b) Which features can be managed through other means?
         • Can a dispatcher walk to another terminal to inhibit a radio?
      c) Which features are needed on consoles but not on subscriber radios?
         • Some requirements may be satisfied through the console which can integrate a variety of technologies, vs. having the feature supported through the interface.
The Working Group has shifted from two conference calls a month to one conference call a month.

The next step is to organize the material into a report for the Governing Board.
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Video Technology Advisory Group (VTAG) Working Group

• Working Group Update:
  – Handbook to be published as addendum to Volume 1 – presently under review at DHS First Responders Group.
  – Next VTAG Meeting will be held on April 26, 2017.
Video Technology Advisory Group (VTAG) Working Group  

- DHS VQiPS update:
  - Finalizing charter/governance document.
  - Likely to result in an increase in enrollment in VTAG.
  - VTAG role as "principle staff" formalized in charter.
  - Priority the remainder of this year is video analytics/redaction and video transport.
  - Literature review with Washington State University, Dr. David Makin initiated to look at what research has been done on Body Worn Camera (BWC) datasets and circumstances around positive/negative encounters with the public.
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Topical Presentation

National Council on Public Safety UAS (NCPSU)
Charles Werner, Senior Advisor, Virginia Department of Emergency Management, via teleconference
FirstNet NPSBN Development

Kevin McGinnis, FirstNet Board Member
FirstNet Public Safety Advisory Committee (PSAC), Harlin McEwen, Committee Chair

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Federal Partners Update

Department of Homeland Security (DHS), Office of Emergency Communications (OEC) – Dusty Rhoads, Chief of the Public Safety and National Security Emergency Preparedness Communications Governance Branch

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Office of Emergency Communications Update

March 31, 2017

Robert (Dusty) Rhoads
Office of Emergency Communications
OEC’s unique mission enables holistic approach to all aspects of emergency communications across all levels of government.

**Domains and Systems**
- 911, NG911, LMR, AUXCOM, Broadband, Alerts and Warnings,

**Jurisdictions**
- Federal, State, Local, Territorial, Tribal and NGOs

**Users and Functions**
- PSAPs, Law Enforcement, Fire, EMS, Emergency Management, Critical Infrastructure
Consistent themes heard during workshops

- Managing technology sustainability
- Establishing strong governance structures to help with sustainability
- Elevating issues to the highest level
- Crafting the right message on the technological revolution

Sampling of best practices consistently reported include

- Early involvement of state legislature, mayors and other elected officials to build relationships
- Messaging public safety communications sustainment as a life-saving, public safety issue
Border Activities

Southern Border

- Southwest Border Communications Working Group (SWBCWG) Ad Hoc Focus Group
  - Recently established to identify gaps and opportunities to improve federal, state, local, and tribal interoperable public safety communications within approximately 60 miles of the southwest border
  - Focus Group is intended to support the Administration’s focus on border security
- SWBCWG Meeting: May 23-24, 2017, in Sacramento, CA

Northern Border

- CAUSE V Planning
- Canada – United Status Communications Interoperability Working Group (CANUS CIWG) Meeting: June 20-21, 2017, in Buffalo, NY
NCBA Goal and Objectives

Nationwide Communications Baseline Assessment (NCBA):

- **Goal:** Conduct a nationwide baseline assessment of the current ecosystem of communications capabilities needed and in use by emergency response providers

- **Objectives:**
  - Address “Title XVIII – Emergency Communications” requirements:
    - Sec. 1803 (a) Baseline Assessment “…no less than every 5 years…”
    - Sec. 1803 (b) Progress Reports “…biennially submit to Congress”
  - Develop an improved assessment framework that allows OEC to determine the available vs. needed communications capabilities
  - Establish a consistent, repeatable, and effective baseline assessment process to help standardize OECs national planning lifecycle
  - Obtain reportable data to inform OEC programs and services:
    - Identifies gaps where OEC can target resources via TA, SCIPs, SAFECOM Guidance, etc
    - Helps establish agendas, and sets or re-confirms priorities
    - Defines capabilities central to helping stakeholders improve response capacity
Title XVIII of the Homeland Security Act

“(a) “Baseline Assessment.— Not later than 1 year after the date of enactment of this section and not less than every 5 years thereafter, the Secretary, acting through the Director for Emergency Communications, shall:

(1) Conduct an assessment of Federal, State, local, and tribal governments that:

(a) Defines the range of capabilities needed by emergency response providers and relevant government officials to continue to communicate in the event of natural disasters, acts of terrorism, and other man-made disasters;

(b) Defines the range of interoperable emergency communications capabilities needed for specific events;

(c) Assesses the current available capabilities to meet such communications needs;

(d) Identifies the gap between such current capabilities and defined requirements; and...."
Overview

SAFECOM Nationwide Survey (SNS):

- Gathers the data needed to conduct the Nationwide Communications Baseline Assessment (NCBA)
- Questions focus on inquiring about the nation’s current emergency communications capabilities and identifying gaps
- Target Audience: federal, state & territories, tribal & local jurisdictions
- Focus: Fire and Response, Law Enforcement, Emergency Medical Services, and Public Safety Answering Points
- Aiming for a fall release
- Survey will be open for 30 days
Why is the SNS important to you?

Stakeholder Benefits:

- Provides data to help decision makers at all levels of government make emergency communications policy and funding decisions
- The results could specifically be used to:
  - Complement the THIRA processes
  - Inform State/Local grant programs and guidance
  - Inform funding strategies
  - Support SWIC roles and responsibilities
- Aids organizations and jurisdictions in evaluating their own capabilities
- Prompts key emergency communications planning questions – who do you need to coordinate with, have you included cybersecurity in your planning, etc.
Your role in the SNS?

- Respond to the survey and encourage response to the survey
- Assist with outreach at all levels of government: include SNS information in your meetings, newsletters, calls, etc.
- If you have any questions, e-mail OECNECP@hq.dhs.gov
NPSTC Organization Update

TETRA and Critical Communications Associations (TCCA)
Phil Kidner, Affiliate Representative

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Thank you participants for creating:

20 years of progress

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Spectrum Management Committee

Don Root, Chair
Charlie Sasser, Vice Chair
Committee Issue Update
700 MHz Public Safety Air-to-Ground (ATG)

• FCC Public Notice March 15; Comments due May 1, 2017.
• Eight Channels previously designated for U.S.
• Current U.S./Canada Agreement does not cover ATG
• FCC-U.S./ISED-Canada in discussions
• Options:
  – Same ATG channels in U.S. and Canada – Each country restricted in ATG use
  – Different ATG channels in U.S. and Canada – Choice of channels and maximum height in Canada determines impact to U.S.
  – Mix- some channels the same for interoperability; others distinct
• Spectrum Committee studying options to draft substantive recommendations.
Committee Issue Update
800 MHz Cellular Service Reform

• Benefit to 800 MHz Cellular Carriers:
  - FCC Decision March 23.
  - Rule changes enable broadband
  - Permits Power Flux Density (PFD) to use same power across band, whether broadband or narrowband
  - Conforms 800 MHz cellular technical rules to those in other CMRS bands
  - Keeps existing interference resolution rules/procedures

• Impact to Public Safety:
  - May increase interference
  - FCC calls for a Public Forum among PS, PS equipment manufacturers and commercial carriers to address band coexistence
  - FCC raises possibility of public safety receiver requirements
Committee Issue Update
NHTSA Vehicle-to-Vehicle (V2V) Proposal

• NHTSA NPRM-Docket 2016-0126  ---- 392 pages
• Comments due April 12, 2017.
• NPRM proposes to mandate for V2V communications for new light vehicles for crash avoidance.
• Also proposes to standardize the message and format of V2V transmissions.
• Would phase in over four years following final rule.
• Committee plans to draft supporting comments for the Governing Board review and approval.
• NPRM includes discussion on 5.9 GHz DSRC.
Committee Issue Update
700 MHz Deployable Trunked Channels

• NPSTC and the NRPC jointly issued a report October 2015 entitled “700 MHz Nationwide Deployable Trunked Solutions.”

• Since that time, NRPC has implemented its administration of system IDs, etc.
Committee Issue Update
700 MHz Deployable Trunked Channels continued

• We now need to take steps toward an updated report:
  – Educate agencies on how to obtain a deployable trunked system ID.
  – Determine whether P25 Phase II mode can be used in addition to the P25 Phase I mode.
  – Address some concerns in the U.S. / Mexico border area regarding potential conflicts on deployable trunked system control channels.
  – Promote adoption of 700 MHz deployable trunked channels in Canada.
  – Determine whether to develop a sample programming template to use in updating the PAM tool, working with the Technology and Broadband Committee.

• The Committee requests Governing Board approval for this activity.
Committee Issue Update

4.9 GHz

- NPRM previously on FCC 8th floor circulation.
- Pulled from circulation in January 2017.
- We hear that some degree of edits/modifications are being made.
- Awaiting FCC adoption/release.
- Expect NPRM to include some discussion on spectrum sharing.
Committee Issue Update

4.9 GHz continued

• Committee has held two educational sessions to learn how dynamic spectrum management through a spectrum access system (SAS) is designed and is being tested at 3.5 GHz.

• Spectrum environment a key factor in sharing mechanisms.

• Spectrum environment: 4.9 GHz ≠ 3.5 GHz.
NPSTC Filings in 2017

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Federal Partners Update  
Continued

Federal Communications Commission (FCC)  
David Furth, Deputy Bureau Chief  
Charles Cooper, Acting Field Director, Enforcement Bureau
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Interoperability Committee

John Lenihan, Chair
Jason Matthews, Vice Chair
Interoperability Committee

• Monitoring non P25 system implementations for public safety.
  – Digital Mobile Radio (DMR) and TETRA are replacing legacy analog systems.

• Monitoring encryption issues.
  – Vendors are creating compatible, industry encryption schemes, that work across manufacturer and radio platforms.
  – Harris is releasing an encryption that is compatible with Motorola’s proprietary Advance Digital Privacy (ADP) offering.

• Monitoring state laws on use of “hand-held” devices.
  – Many states are enhancing their laws to prevent mobile device use while driving.
  – Reviewing impact to public safety operations.
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EMS Working Group

- Completed report on “Public Safety Broadband Data: Implications for Rural EMS.”
  - Highlights unique issues facing rural EMS providers.
  - Addresses three components: Time, Resources, and Incidents.
  - Examines solutions to improve patient care.
  - Report is in final editing and will reach the Governing Board soon.

- Starting review of EMS Broadband Public Safety Applications list that was created in 2012.
  - Determine current status of applications.
  - Identify new applications that may be needed by EMS.
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Radio IO Best Practices Working Group

Mark Schroeder, Chair
Radio Interoperability Best Practices

• Best Practice Master Report and three Best Practice Statements were approved by the Governing Board on January 24, 2017.
  – These documents have been published and distributed broadly.
  – Best Practice 1,2,3 were also approved:
    • BP #1: Nationwide IO Channel Naming and Usage
    • BP #2: IO Systems Change Management Practices
    • BP #3: Training and Proficiency in the Management and Usage of IO Equipment and Systems.
• Best Practice # 4 on Governance and Interoperability Relationships has been completed and distributed to the Governing Board.
  - **ACTION NEEDED**: Governing Board consideration for approval of report.

• Work continues to finalize the next Best Practice document covering Infrastructure Management.
Cross Border Working Group

Steve Mallory, Chair

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Cross Border Working Group

• Finalizing input on the Cross Border 911 Data Sharing Report
  – Provides guidance to PSAPs along the U.S. Canadian border on how to access customer account and location data that resides with a commercial carrier in the other country.
  – Also provides guidance for the management of calls which did not trigger a 911 call.

• Reviewing the FCC Public Notice on 700 MHz Air to Ground channels.
  – Presentation received from Brian Marenco from the FCC.
  – Monitoring efforts in the Spectrum Management Committee.
Cross Border Working Group continued

- Participating with CITIG at the upcoming CANUS Communications Interoperability Working Group meeting in Buffalo, NY, with DHS OEC and Public Safety Canada.
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Adjourn

Save the Date

Teleconference Meeting | July 27, 2017
In Person Meeting | Wednesday, September 6, 2017
Level IV Executive Session

- NPSTC Chair
- NPSTC Vice Chairs
- Committee Chairs
- Committee Vice Chairs
- Voting Member Representatives and Alternates
- NPSTC Director
- NPSTC Deputy Directors
- Invited Guests