

Michigan Public Safety Communications Interoperability Board

Meeting Agenda

June 12, 2018, 2:00 PM – 4:00 PM

MSP HQ, Centennial Room, 7150 Harris Drive, Dimondale, MI 48821

Dial In # 888-278-0296

Access Code: 8855666#

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- I. Call to Order
 - II. Roll Call
 - III. Approval of Meeting Minutes
 - A. March 13, 2018
 - IV. Approval of Meeting Agenda
 - V. Public Comment
 - VI. Communications
 - VII. Workgroup Reports
 - A. Communications Unit Workgroup
 - 1. Workgroup Update
 - 2. Statewide Communications Interoperability Plan (SCIP) 2017 revision
 - B. Public Safety Broadband Workgroup
 - 1. Workgroup Update
 - 2. Regional/National Activities/News
 - C. Auxcomm Workgroup
 - 1. Workgroup Update
 - D. Emergency Alert System (EAS) & Integrated Public Alert and Warning System (IPAWS) Workgroup
 - 1. Workgroup Update
 - E. Fire Paging Workgroup
 - 1. Workgroup Update
 - VIII. Old Business
 - A. None
 - IX. New Business
 - A. MPSCS State Performance Audit
 - B. National Governor's Association (NGA) partnering with DHS OEC on Interoperability Governance and streamlined efforts in the states
 - C. NGA and DHS OEC planning efforts for new administrations in State's (Governors, Agency Directors, Policy makers, etc.) – keeping interoperability at the forefront

2018 Meeting Dates: February 20, March 13, June 12, September 11, and December 11

- X. Technology Update - Director, MPSCS
 - A. MPSCS System
 - a. MPSCS Lifecycle Remediation Project Status
 - 7.15 to 7.17 upgrade
 - Phase 4 Underway, second sub-phase currently underway
 - b. County discussions: St. Joseph, Ingham, Branch
 - c. System annual maintenance – common cost and services comparison (pushed to September FEMA meeting)

XI. Good of the Order

A. Comments by Board Members

XII. 2018 meeting dates

A. February 20 (Special Meeting), March 13, June 12, September 11, and December 11

XIII. **Adjournment – Next meeting date is Tuesday, September 11, 2018**
 MSP Headquarters, 7150 Harris Drive, Dimondale MI at 2:00 p.m.

Date	Future Agenda Topics
2018	Identification and Implementation of Best Practices (governance, policy, strategic vision, technology)

Michigan Public Safety Communications Interoperability Board

Meeting Minutes

March 13, 2018, 2:00 PM – 4:00 PM

MSP HQ, Centennial Room, 7150 Harris Drive, Dimondale, MI 48821

Dial In # 888-278-0296

Access Code: 8855666#

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- I. Call to Order
A. Welcome New Board Member – Lawrence Schloegl
The meeting of the Michigan Public Safety Communications Interoperability Board was called to order by Co-Chair Kriste Este on Tuesday, March 13th at 2:00pm.
- II. Roll Call
- III. Approval of Meeting Minutes Motion to approve
A. December 12, 2017 meeting
*It was moved by Greg Janik and seconded by Kevin Sehlmeier to approve the December 12, 2017 meeting minutes. **Motion was carried.***
B. February 20, 2018 meeting
*It was moved by Ron Bush with one correction IV. AB SCIP spelled wrong. Second from Kevin Sehlmeier to approve the February 20, 2018 meeting minutes. **Motion was carried.***
- IV. Approval of Meeting Agenda
It was moved by Ken Morris and seconded by Capt. Chris Kelenske.
- V. Public Comment
There was no public comment
- VI. Communications
No communications
- VII. Reports Workgroup
A. Communications Unit Workgroup
i. Workgroup Update
 - *SCIP update to SWIC soon. Then format with OEC.*
 - *List of trainings provided on update.*
 - *Encryption and interoperability. The Board needs to provide guidance on this topic. Possible guidelines and policy needed.*
 - *Brad brought up credentialing – Chair for sub-committee will be Chris Christensen from DTMB. Captain Kelenske wants the credentialing to be part of the bigger credentialing picture for disasters/emergencies. Wants to drive it from the Emergency comms plan to the sub-committee. They have tried to get this pushed for all personnel not just comms.*- ii. Statewide Communications Interoperability Plan (SCIP) 2017 revision

B. Public Safety Broadband Workgroup

i. Workgroup Update

- *Board action items: December meeting it was discussed how to deploy the assets. Distributed a revised recommendation policy. Approval of the revised deployable asset procedure. Local EOC's and the State EOC are live, the management of resources must be clear. Entities cannot go straight to the MPSCS for requests. 2 different emergencies activated EOCs and just the system needs support.*
Motion to accept recommendations with the caveat that we will define how we actually activate these resources.
- *Roscommon and Livingston County will be housed at an ATT facility. Looking for Board to support the two locations. This will be the Board's recommendation to ATT.*
- *Public safety has priority over network. When there's network congestion with public safety, commercial users will be kicked off. Then go by level 1-3 with public safety.*
- *Contract for individuals should be available in the next couple of weeks*
- *Work group is going to look at broadband providers. Look at Verizon, Sprint, FirstNet and put the differences into Lehman's terms. Develop list of questions for the companies to respond to.*
- *SLIGP2 – grant application submitted. Comm center transitions planning will be fusion centers and EOCs.*

ii. Regional/National Activities/News

iii. SCIP Items

C. Auxcomm Workgroup

i. Workgroup Update

1. Any interest from a board member to co-chair the work group? Please let co-chair know before the June 12 meeting.

ii. Auxcomm courses are going well.

D. Emergency Alert System (EAS) & Integrated Public Alert and Warning System (IPAWS) Workgroup

i. Workgroup Update

- *3 recommendations that need extra review legislatively. Very happy with outcome. Thanks to Ron who has taken on a lot of different initiatives.*

Ron: It may take a change in public act 390. Doesn't define how the notification happens. Audio quality issues which are meeting the basic requirements, but not useful. Change language to use an approved EMHSD approved notification system.

Cap: Brought in MSP legislative reps to review.

Need leads for public education, training, etc.

- *Incident in Hawaii – MSP has updated the policy especially surrounding testing and final approvals.*

ii. SCIP Items

VIII.

Old Business

a. Department of Homeland Security, Office of Emergency Communications

i. SAFECOM nationwide survey, Nationwide Communications Baseline Assessment <https://www.dhs.gov/safecom/sns>

- *Now closed.*

b. FirstNet informational, workgroup efforts and State Plan activities – Verizon presentation

IX. New Business

A. Department of Homeland Security, Office of Emergency Communications & FEMA Update

2018 Meeting Dates: February 20, March 13, June 12, September 11, and December 11

- a. Overview from DHS, OEC Jim Jarvis
 - *Currently working through NIMS for IT service manager position in comms Unit. No more a technical specialist. Following Coast Guard closely.*
 - *Update plan for governance guide. Looking for volunteers. Let Mr. Jarvis know.*
 - *National Governors Association Governance Workshops. All States are invited to participate.*
 - *Working on National Emergency Communications update. Will be a 2019 published document. Also looking for volunteers.*

X. Technology Update - Director, MPSCS

A. MPSCS System

- a. MPSCS Lifecycle Remediation Project Status
 - *Phase 4 Underway, second sub-phase of three currently underway*
 - *System upgrade from 7.15 to 7.17 around May.*
 - *Discussion amongst SWICs to discuss maintenance fees of statewide radio systems.*
- b. Fire paging – recommend workgroup
*Propose to Board to develop a workgroup on fire paging. Chief Janik and Al Melon to be co-chairs. Motion by Chief Hagler seconded by Ron Bush. **Motion was carried.***
- c. System annual maintenance – common cost and services comparison

XI. Good of the Order

A. Comments by Board Members

- *No issues with towers during flooding.*
- *Shooting at CMU there was a microwave issue. Not related, just a coincidence. No issues reported with the response though.*
- *Jim Jarvis gets info from the National Cyber Security – no significant outages on the Telco side and can share that information and provide impacted areas if desired.*
- *Action Item: Bryce Tracy proposed Steve Meek for COML/COMT recommendation.*
 - *Motion to approve*
 - *Seconded by Greg Janik, Motion was approved by board.*
- *Ken Morris: Land mobile Radio and work with First Net – we should encourage them to develop apps that increase interoperability across bands. They have 4 radios in their vehicles and only one is ever used. Encourage it as a solution to consolidate in vehicle radios.*
- *Kevin Sehlmeier: Impressed with Interop conference and the interaction and engagement. Gave kudos to Brad and everyone involved.*
- *Capt. Chris Kelenske: GLHS conference in May.*
Modifying homeland security strategy – survey coming out to committee members. Fold in interoperability and EM strategy.

XII. 2018 meeting dates

- A. February 20 (Special Meeting), March 13, June 12, September 11, and December 11

XIII. Adjournment – Next meeting date is **Tuesday, June 12, 2018**

MSP Headquarters, 7150 Harris Drive, Dimondale MI at 2:00 p.m.

It was moved by Capt. Chris Kelenske and seconded by Greg Janik to adjourn the meeting.

Date	Future Agenda Topics
2018	Identification and Implementation of Best Practices (governance, policy, strategic vision, technology)



STATE OF MICHIGAN

MICHIGAN PUBLIC SAFETY COMMUNICATIONS INTEROPERABILITY BOARD

LANSING

STATUS OF CURRENT ACTIONS REPORT TO THE MPSCIB

2018-05-21 – AUXCOMM WORKING GROUP

Interop Board Action Items

New Items

Refreshing the list of strategic objectives and priorities for the Auxcomm Working Group.

Working with EMHSD State Planner to more thoroughly incorporate Auxcomm into the Michigan Emergency Management Plan (MEMP).

Radio-email has finally been configured and is now operational in the SEOC.

Working through items identified in the after action report from the SEOC Voice Messaging Exercise held on April 28, 2018.

What's on the Horizon

Developing a redundant data connectivity plan between all emergency operations center and to the State Emergency Operations Center.

Developing a standard statewide Auxcomm training plan.

FEMA Region V Auxcomm committee is working on a Black Sky Activation Plan. US DHS Office of Emergency Communications (OEC) has offered to put Region V in touch with similar efforts in other regions.

Training and Exercises

SEOC Voice Messaging Exercise – April 28, 2018 – Tested improvement plan items from a similar exercise on September 30, 2017.

MI-MORT Exercise – May 17, 2018 – Providing communications critique to MDHHS.

Field Day – June 23, 2018 – Auxcomm groups around the state will operate 24 hours from greenfield locations.

Auxcomm participation in FERMI drills & exercises – July 24, August 14, August 28



STATE OF MICHIGAN

MICHIGAN PUBLIC SAFETY COMMUNICATIONS INTEROPERABILITY BOARD

LANSING

STATUS OF CURRENT ACTIONS REPORT TO THE MPSCIB – JUNE 2018 – COMU WG

Interop Board Action Items

Future: SCIP Strategy Updates, work meeting with SWIC near future.

Future: After Action Reporting for Communications, to blend with CEU's or Renewal process for COML/COMT. Will present in September.

New Items

Collaboration with AUXCOMM and MSP-EMHSD regarding credentialing and asset practices. DTMB was at May COMU WG meeting and will be collaborating with possible solutions.

Collaborations with AUXCOMM regarding tracking of verified personnel, similar to the existing COML/COMT database in CASM.

Technical Assistance from OEC to develop an electronic application version of the MIFOG.

Working with MSP/EMHSD adding communications assets and resource typing information to MI-CIMS (WebEOC®)

Re-designed COMU Program brochure.

What's on the Horizon?

Encryption Interoperability – Many issues are starting to arise with the push from local Law Enforcement wanting Encryption for their radio talk-groups/channels. COMU WG wants to work with MPSCIB to develop a Standard Guideline similar to Mutual Aid Standard Operating Guideline. Recommendation to the Board in September.

Define Incident Tactical Dispatcher in the Recognition Guidelines.

COML/COMT Instructor requirements for Michigan .

Training and Exercises

Completed:

October 2017- AUXCOMM Class @ Muskegon (28 Participants)

January 2018 – AUXCOMM Class @ Oakland County (28 Participants)

COML Class – March 20-22 @ Ann Arbor

Future:

COMMEX – September 19-20 @ Holly (Planning Team in place, working on MSEL and TA from OEC)

COMT Class – 4th Quarter of 2018 or 1st Quarter of 2019

Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of
Cameron Thurston,
Grayling, Michigan
File No. EB-FIELDNER-17-00025806
NAL/Acct No. 201832010002
FRN: 0021906128

ORDER

Adopted: May 16, 2018

Released: May 16, 2018

By the Chief, Enforcement Bureau:

1. The Enforcement Bureau (Bureau) of the Federal Communications Commission has entered into a Consent Decree to resolve its investigation into whether Cameron Thurston (Thurston) violated Sections 301 and 333 of the Communications Act of 1934, as amended (Act),1 and Sections 90.20, 90.403, 90.405 and 90.425 of the Commission’s rules2 by operating on spectrum that the Commission has licensed for use by the Michigan Public Safety Communications Network (MPSCS). These sections of the Act and the Commission’s rules ensure that spectrum remains available for exclusive use by public safety entities by prohibiting unauthorized operations, prohibiting willful or malicious interference, establishing eligibility requirements to obtain a license for spectrum reserved for public safety uses, delineating the scope of permitted communications, and requiring authorized stations periodically to transmit call signs or similar station or system identification when using a public safety network. Unauthorized use of public safety radio networks, such as the MPSCS, poses a unique threat to public safety because it can “create[] a scenario in which a dispatcher might not be able to hear and respond to an emergency transmission” from authorized users, thereby endangering the safety of first responders and the public they are called to protect.3

2. Earlier this year, Mr. Thurston pleaded guilty to one felony count of Computers-Unauthorized Access4 and one felony count of Using a Computer to Commit a Crime5 in connection with his misuse of the MPSCS. However, because of Mr. Thurston’s age (19 years old), the nature of the offenses, and his willingness to provide the Michigan State Police with information about how he gained access to the MPSCS, the court refrained from entering a judgment of conviction against Mr. Thurston and instead assigned him the status of a “youthful trainee” under the Holmes Youthful Trainee Act.6 The court then imposed conditions under HYTA (Diversion Program), with which Mr. Thurston must remain in compliance in order to maintain his status as a “youthful trainee.” If Mr. Thurston complies with the terms of the Diversion Program for a two-year period, the court will close the criminal proceeding

1 47 U.S.C. §§ 301 & 333.

2 47 CFR §§ 90.20, 90.403, 90.405, 90.425.

3 Jay Peralta, Corona, New York, Notice of Apparent Liability for Forfeiture, 32 FCC Rcd 3246, 3252, para. 12 (2017); forfeiture ordered, 32 FCC Rcd 7993 (2017).

4 Mich. Comp. Laws § 752.7972A.

5 Mich. Comp. Laws § 752.7973D.

6 Mich. Comp. Laws § 762.11 (HYTA).

without entering a judgment of conviction. If, however, Mr. Thurston violates the terms of the Diversion Program, the court will enter a judgment of conviction against Mr. Thurston for the two felonies for which he entered a guilty plea.

3. To settle this matter, Thurston (a) admits that, over a two-year period, he illegally operated on, and caused interference to, the MPSCS;⁷ (b) agrees not to operate on, or to cause interference to, the MPSCS in the future; (c) surrenders his amateur radio license for cancellation, with an agreement not to apply for a new amateur radio license for two years; and (d) will pay a \$3,000 civil penalty. However, Thurston will pay an additional civil penalty of \$17,000 if in the next twenty years the Commission finds that he operates on, or causes interference to, the MPSCS, or otherwise violates the terms of the Consent Decree or the Diversion Program.

4. After reviewing the terms of the Consent Decree and evaluating the facts before us, we find that the public interest would be served by adopting the Consent Decree regarding Thurston's unauthorized operation on, and interference to, the MPSCS, in violation of Sections 301 and 333 of the Act and in violation of Sections 90.20, 90.403, 90.405 and 90.425 of the Commission's rules.⁸

5. In the absence of material new evidence relating to this matter, we do not set for hearing the question of Thurston's basic qualifications to hold or obtain any Commission license or authorization.⁹

6. Accordingly, **IT IS ORDERED** that, pursuant to Section 4(i) of the Act¹⁰ and the authority delegated by Sections 0.111 and 0.311 of the Commission's rules,¹¹ the attached Consent Decree **IS ADOPTED** and its terms incorporated by reference.

7. **IT IS FURTHER ORDERED** that the above-captioned matter **IS TERMINATED**.

8. **IT IS FURTHER ORDERED** that a copy of this Order and Consent Decree shall be sent by first class mail and certified mail, return receipt requested, to Thurston at his address of record, and to Kristi L. McGregor, Esquire, Kristi L McGregor, PLLC, P.O. Box 396, Mio, MI 48647.

FEDERAL COMMUNICATIONS COMMISSION

Rosemary C. Harold
Chief
Enforcement Bureau

⁷ Although Mr. Thurston illegally operated on, and caused interference to, the MCPS on numerous occasions, the average duration of his transmissions was 4.8 seconds.

⁸ 47 U.S.C. §§ 301 & 333; 47 CFR §§ 90.20, 90.403, 90.405 & 90.425.

⁹ See 47 CFR § 1.93(b).

¹⁰ 47 U.S.C. § 154(i).

¹¹ 47 CFR §§ 0.111, 0.311.

Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of)	
)	
Cameron Thurston)	File No. EB-FIELDNER-17-00025806
Grayling, Michigan)	NAL/Acct No. 201832010002
)	FRN: 0021906128
)	

CONSENT DECREE

1. The Enforcement Bureau of the Federal Communications Commission and Cameron Thurston (Mr. Thurston), by their authorized representatives, hereby enter into this Consent Decree for the purpose of terminating the Enforcement Bureau’s investigation into whether Mr. Thurston violated Sections 301 and 333 of the Communications Act of 1934, as amended, and Sections 90.20, 90.403, 90.405, and 90.425 of the Commission’s rules by operating an unauthorized radio on, and causing interference to authorized users of, the Michigan Public Safety Communications System.

I. DEFINITIONS

2. For the purposes of this Consent Decree, the following definitions shall apply:
- (a) “Act” means the Communications Act of 1934, as amended.¹²
 - (b) “Adopting Order” means an order of the Bureau adopting the terms of this Consent Decree without change, addition, deletion, or modification.
 - (c) “Bureau” means the Enforcement Bureau of the Federal Communications Commission.
 - (d) “Commission” and “FCC” mean the Federal Communications Commission and all of its bureaus and offices.
 - (e) “Compliance Commitment” means the compliance obligations described in this Consent Decree at paragraph 12.
 - (f) “Effective Date” means the date by which both the Bureau and Mr. Thurston have signed the Consent Decree.
 - (g) “Investigation” means the investigation commenced by the Bureau in File No. EB-FIELDNER-17-00025806 regarding whether Mr. Thurston violated Sections 301 and 333 of the Act and the Part 90 Public Safety Rules by operating an unauthorized radio on, and causing interference to authorized users of, the MPSCS.
 - (h) “Michigan Public Safety Communications System” and “MPSCS” mean the public safety radio network maintained and operated by the State of Michigan under licenses issued by the Commission.
 - (i) “Part 90 Public Safety Rules” means 47 CFR §§ 90.20, 90.403, 90.405 & 90.425 and other provisions of the Act, the Rules, and Commission orders related to the operation of land mobile radios on spectrum designated for public safety uses.
 - (j) “Parties” means Mr. Thurston and the Bureau, each of which is a “Party.”

¹² 47 U.S.C. § 151 *et seq.*

- (k) “Rules” means the Commission’s regulations found in Title 47 of the Code of Federal Regulations.

II. BACKGROUND

3. Section 301 of the Act states that “No person shall use or operate any apparatus for the transmission of energy or communications or signals by radio [within the United States] . . . except under and in accordance with this Act and with a license in that behalf granted under the provisions of this Act.”¹³ Unlicensed radio stations operate illegally, in violation of Section 301. Unlicensed radio stations undermine the Commission’s efforts to manage radio spectrum and can interfere with licensed communications, including communications over spectrum licensed for use by first responders and other public safety entities. Section 333 of the Act states that “[n]o person shall willfully or maliciously interfere with or cause interference to any radio communications of any station licensed or authorized by or under this chapter or operated by the United States government.”¹⁴ Section 90.20 of the Rules establishes, among other things, eligibility requirements to obtain an authorization from the Commission to operate on specific frequencies that the Commission has reserved for public safety uses.¹⁵ Section 90.403 of the Rules establishes general operating requirements, including a requirement to avoid causing interference to other licensees.¹⁶ Section 90.405 of the Rules sets the scope of permissible communications using spectrum licensed by the Commission.¹⁷ Section 90.425 establishes a requirement that stations licensed under the Part 90 Public Safety Rules periodically transmit certain identifying information.¹⁸ In particular, these Sections of the Act and the Part 90 Public Safety Rules (i) require an entity to obtain a license from the FCC to operate on a public safety network; (ii) prohibit non-governmental or other public safety organizations from obtaining public safety spectrum licenses from the FCC, (iii) restrict transmissions on public safety networks, including the MPSCS, to public safety communications, (iv) require any transmissions on such networks to include the call sign or similar station or system identification, and (v) prohibit willful or malicious interference to radio communications of licensed or authorized stations.

4. Mr. Thurston is a 19-year old amateur radio licensee who operates under the call sign N8CAM. According to reports that the Michigan State Police provided to the Commission, on or about April 21, 2017, Mr. Thurston was subject to a routine traffic stop, during which, an officer of the Michigan State Police observed that Mr. Thurston was in possession of a radio capable of operating on the MPSCS. After confirming that Mr. Thurston was not an authorized user of the MPSCS, the officer seized the radio under authority provided by state law. Another Michigan State Police officer specializing in the organization’s radio equipment subsequently inspected the seized radio and determined that it was able to connect with, and operate on, the MPSCS because the device was a “clone” of an infrequently used radio belonging to Oscoda County, Michigan, that was authorized to operate on the MPSCS. As a “clone,” the device in Mr. Thurston’s possession operated using the same radio identifier code as the Oscoda County radio. Because the MPSCS recognized the code transmitted by Mr. Thurston’s radio as belonging to the authorized Oscoda County radio, the system permitted Mr. Thurston’s radio to make and receive transmissions on the state-wide network. According to records provided by the Michigan State Police, between July 15, 2015, and April 21, 2017, the cloned radio in Mr. Thurston’s possession

¹³ 47 U.S.C. § 301.

¹⁴ 47 U.S.C. § 333.

¹⁵ 47 CFR § 90.20.

¹⁶ 47 CFR § 90.403.

¹⁷ 47 CFR § 90.405.

¹⁸ 47 CFR § 90.425.

transmitted on the MPSCS 989 times, with the average transmission lasting 4.8 seconds.¹⁹ Based on information provided by the MPSCS, during each such push-to-talk transmission, other authorized users of the “talk group” on which the cloned radio was then transmitting would not have been able to make their own transmissions during the brief periods when Mr. Thurston was transmitting on the MPSCS. The Michigan State Police have not alleged that Mr. Thurston made any false or threatening transmissions on the MPSCS.

5. On January 23, 2018, Mr. Thurston pleaded guilty to one felony count of Computers-Unauthorized Access (Mich. Comp. Laws § 752.7972A) and one felony count of Using a Computer to Commit a Crime (Mich. Comp. Laws § 752.7973D). Because of Mr. Thurston’s age, the nature of the offenses, and his willingness to provide the Michigan State Police with information about the method he used to clone the Oscoda County radio, the court refrained from entering a judgment of conviction against Mr. Thurston and instead assigned him the status of a “youthful trainee” under the Holmes Youthful Trainee Act.²⁰ The court then imposed conditions under HYTA (Diversion Program), with which Mr. Thurston must remain in compliance in order to maintain his status as a “youthful trainee.” If Mr. Thurston complies with the terms of the Diversion Program for a two-year period, the court will close the criminal proceeding without entering a judgment of conviction. If, however, Mr. Thurston violates the terms of the Diversion Program, the court will enter a judgment of conviction against Mr. Thurston for the two felonies for which he entered a guilty plea.

6. Mr. Thurston and the Bureau engaged in settlement negotiations. To settle this matter, the Bureau and Mr. Thurston enter into this Consent Decree and agree to the following terms and conditions.

III. TERMS OF AGREEMENT

7. **Adopting Order.** The provisions of this Consent Decree shall be incorporated by the Bureau in an Adopting Order.

8. **Jurisdiction.** Mr. Thurston agrees that the Bureau has jurisdiction over him and the matters contained in this Consent Decree and has the authority to enter into and adopt this Consent Decree.

9. **Effective Date; Violations.** The Parties agree that this Consent Decree shall become effective on the Effective Date as defined herein. As of the Effective Date, the Parties agree that this Consent Decree shall have the same force and effect as any other order of the Commission.

10. **Termination of Investigation.** In express reliance on the covenants and representations in this Consent Decree and to avoid further expenditure of public resources, the Bureau agrees to terminate the Investigation. In consideration for the termination of the Investigation, Mr. Thurston agrees to the terms, conditions, and procedures contained herein. The Bureau further agrees that, in the absence of new material evidence, it will not use the facts developed in the Investigation through the Effective Date, or the existence of this Consent Decree, to institute, on its own motion, any new proceeding, formal or informal, or take any action on its own motion against Mr. Thurston concerning the matters that were the subject of the Investigation. In the absence of new material evidence, the Bureau also agrees that it will not use the facts developed in the Investigation through the Effective Date, or the existence of this Consent Decree, to institute on its own motion any proceeding, formal or informal, or to set for hearing the question of Mr. Thurston’s basic qualifications to be a Commission licensee or hold Commission licenses or authorizations.²¹

¹⁹ The 989 transmissions on the MCPS made between July 15, 2015, and April 21, 2017, amounted to 78 minutes of air time and an average transmission time of 4.8 seconds.

²⁰ Mich. Comp. Laws § 762.11 (HYTA).

²¹ See 47 CFR § 1.93(b).

11. **Admission of Liability.** Mr. Thurston admits for the purpose of this Consent Decree and for Commission civil enforcement purposes, and in express reliance on the provisions of paragraph 10 herein, that his actions referenced in paragraph 4 herein violated Sections 301 and 333 of the Act and the Part 90 Public Safety Rules.

12. **Compliance Commitment.** Mr. Thurston has (a) ceased using or operating and in the future will not use, operate, or provide material assistance to another in the use or operation of, any unauthorized radio station, and (b) ceased causing harmful interference to the MPSCS and in the future will not cause or provide material assistance to another causing harmful interference to the MPSCS. Any use or operation of, or provision of material assistance to another in the use or operation of, an unauthorized radio station by Mr. Thurston will, at a minimum, violate Section 301 of the Act and the terms of this Consent Decree. Any use or operation of, or provision of material assistance to another in the use or operation of, a radio station causing harmful interference to the MPSCS will, at a minimum, violate Section 333 of the Act, the Part 90 Public Safety Rules, and the terms of this Consent Decree. For the avoidance of doubt, any violations of Sections 301 or 333 of the Act or the Part 90 Public Safety Rules by Mr. Thurston after the Effective Date shall be considered “new material evidence” for purposes of the representations and covenants set forth in Paragraph 10. Within fifteen (15) calendar days of any noncompliance with Sections 301 or 333 of the Act, with the Part 90 Public Safety Rules, with the terms and conditions of this Consent Decree, or with the terms and conditions of the Diversion Program, Mr. Thurston shall report such noncompliance to the Field Director, Office of the Field Director, Enforcement Bureau, Federal Communications Commission, 445 12th Street, S.W., Washington, DC 20554, with a copy submitted electronically to matthew.gibson@fcc.gov and field@fcc.gov; any failure to report such noncompliance will violate the terms of this Consent Decree.

13. **Termination Date.** Unless stated otherwise, the requirements set forth in paragraph 12 (compliance commitment paragraph) of this Consent Decree shall expire twenty (20) years after the Effective Date.

14. **Voluntary Surrender of Amateur License.** In consideration of the termination of the Investigation, and in express reliance on the provisions of paragraph 10 herein, Mr. Thurston hereby (a) surrenders for cancellation his license to operate in the amateur radio service using call sign N8CAM, and (b) agrees that he will not seek a new license to operate in the amateur radio service for a period of two (2) years following the Effective Date.

15. **Civil Penalty.** In light of Mr. Thurston’s status as a “youthful trainee” under HYTA, as described in paragraph 5, above, and subject to the provisions of paragraph 16 below, Mr. Thurston will pay a civil penalty to the United States Treasury in the amount of three thousand Dollars (\$3,000) (Civil Penalty), with an initial payment of two hundred fifty Dollars (\$250.00) (Initial Payment) and eleven (11) quarterly installment payments, each in the amount of two hundred fifty Dollars (\$250.00), paid over the course of a thirty six month period (each, an Installment Payment). The Initial Payment shall be made within thirty (30) calendar days of the Effective Date. Thereafter, the Installment Payments are due and payable quarterly on the 20th of the month starting on August 20, 2018, with a final Installment Payment due on April 20, 2021, 36 months after the Effective Date. Mr. Thurston acknowledges and agrees that upon execution of this Consent Decree, the Civil Penalty (including, for the avoidance of doubt, the Initial Payment and each Installment Payment) shall become a “Claim” or “Debt” as defined in Section 3701(b)(1) of the Debt Collection Improvement Act of 1996 (DCIA).²² Mr. Thurston shall send electronic notification of payment to matthew.gibson@fcc.gov and field@fcc.gov on the date payment is made. The payment must be made by check or similar instrument, wire transfer, or credit card, and must include the NAL/Account Number and FRN referenced above. Regardless of the form of payment, a

²² Debt Collection Improvement Act of 1996, Pub. L. No. 104-134, 110 Stat. 1321, 1358 (Apr. 26, 1996) (DCIA).

completed FCC Form 159 (Remittance Advice) must be submitted.²³ When completing the FCC Form 159, enter the NAL/Account Number in block number 23A (call sign/other ID) and enter the letters “FORF” in block number 24A (payment type code). Below are additional instructions that should be followed based on the form of payment selected:

- Payment by check or money order must be made payable to the order of the Federal Communications Commission. Such payments (along with the completed Form 159) must be mailed to Federal Communications Commission, P.O. Box 979088, St. Louis, MO 63197-9000, or sent via overnight mail to U.S. Bank – Government Lockbox #979088, SL-MO-C2-GL, 1005 Convention Plaza, St. Louis, MO 63101.
- Payment by wire transfer must be made to ABA Number 021030004, receiving bank TREAS/NYC, and Account Number 27000001. To complete the wire transfer and ensure appropriate crediting of the wired funds, a completed Form 159 must be faxed to U.S. Bank at (314) 418-4232 on the same business day the wire transfer is initiated.
- Payment by credit card must be made by providing the required credit card information on FCC Form 159 and signing and dating the Form 159 to authorize the credit card payment. The completed Form 159 must then be mailed to Federal Communications Commission, P.O. Box 979088, St. Louis, MO 63197-9000, or sent via overnight mail to U.S. Bank – Government Lockbox #979088, SL-MO-C2-GL, 1005 Convention Plaza, St. Louis, MO 63101.

Questions regarding payment procedures should be addressed to the Financial Operations Group Help Desk by phone, 1-877-480-3201, or by e-mail, ARINQUIRIES@fcc.gov.

16. **Suspended Penalty.** Mr. Thurston further agrees that, upon an Event of Default (as described below in paragraph 17), he will pay a further civil penalty to the United States Treasury in the amount of seventeen thousand dollars (\$17,000) (Additional Civil Penalty). Mr. Thurston acknowledges and agrees that upon an Event of Default, the Additional Civil Penalty shall also become a “Claim” or “Debt” as defined in Section 3701(b)(1) of the DCIA,²⁴ and all procedures for collection of the Additional Civil Penalty may, at the Commission’s discretion, be initiated against Mr. Thurston.

17. **Event of Default.** Mr. Thurston agrees that an Event of Default shall occur upon (a) the failure to pay the Civil Penalty to the U.S. Treasury on or before the date specified in Paragraph 15; (b) within twenty years of the Effective Date, the release of an order by the Commission, such as a Notice of Apparent Liability for Forfeiture that is uncontested or a Forfeiture Order, finding that Mr. Thurston violated Sections 301 or 333 of the Act or the Part 90 Public Safety Rules; (c) an admission of non-compliance required by Paragraph 12; or (d) the failure to comply with the terms of the Diversion Program (as determined by a court of competent jurisdiction).

18. **Interest, Charges for Collection, and Acceleration of Maturity Date.** Upon an Event of Default, all procedures for collection permitted by the DCIA and other provisions of law²⁵ may, at the Commission’s discretion, be initiated and the following shall become immediately due and payable, without notice, presentment, demand, protest, or notice of protest of any kind, all of which are waived by Mr. Thurston: (a) any unpaid Civil Penalty referenced in Paragraph 12, which shall accrue interest at a rate of the U.S. Prime Rate in effect on the date of the Event of Default plus 4.75 percent per annum from the date of the Event of Default until payment in full; (b) the Additional Civil Penalty referenced in Paragraph 13, which shall accrue interest at a rate of the U.S. Prime Rate in effect on the date of the Event

²³ An FCC Form 159 and detailed instructions for completing the form may be obtained at <http://www.fcc.gov/Forms/Form159/159.pdf>.

²⁴ *Id.*

²⁵ See 31 CFR Part 900, *et seq.*

of Default plus 4.75 percent per annum from the date of the Event of Default until payment in full; (c) any penalties permitted and/or required by the law, including but not limited to 31 U.S.C. § 3717; and (d) any administrative charge(s), including the costs of collection, litigation, and attorneys' fees.

19. **Waivers.** As of the Effective Date, Mr. Thurston waives any and all rights he may have to seek administrative or judicial reconsideration, review, appeal or stay, or to otherwise challenge or contest the validity of this Consent Decree and the Adopting Order. Mr. Thurston shall retain the right to challenge Commission interpretation of the Consent Decree or any terms contained herein. If either Party (or the United States on behalf of the Commission) brings a judicial action to enforce the terms of the Consent Decree or the Adopting Order, neither Mr. Thurston nor the Commission shall contest the validity of the Consent Decree or the Adopting Order, and Mr. Thurston shall waive any statutory right to a trial *de novo*. Mr. Thurston hereby agrees to waive any claims he may otherwise have under the Equal Access to Justice Act²⁶ relating to the matters addressed in this Consent Decree.

20. **Severability.** The Parties agree that if any of the provisions of the Consent Decree shall be held unenforceable by any court of competent jurisdiction, such unenforceability shall not render unenforceable the entire Consent Decree, but rather the entire Consent Decree shall be construed as if not containing the particular unenforceable provision or provisions, and the rights and obligations of the Parties shall be construed and enforced accordingly.

21. **Invalidity.** In the event that this Consent Decree in its entirety is rendered invalid by any court of competent jurisdiction, it shall become null and void and may not be used in any manner in any legal proceeding.

22. **Subsequent Rule or Order.** The Parties agree that if any provision of the Consent Decree conflicts with any subsequent Rule or Order adopted by the Commission (except an Order specifically intended to revise the terms of this Consent Decree to which Mr. Thurston does not expressly consent) that provision will be superseded by such Rule or Order.

23. **Successors and Assigns.** Mr. Thurston agrees that the provisions of this Consent Decree shall be binding on his successors and assigns.

24. **Final Settlement.** The Parties agree and acknowledge that this Consent Decree shall constitute a final settlement between the Parties with respect to the Investigation.

25. **Modifications.** This Consent Decree cannot be modified without the advance written consent of both Parties.

26. **Paragraph Headings.** The headings of the paragraphs in this Consent Decree are inserted for convenience only and are not intended to affect the meaning or interpretation of this Consent Decree.

27. **Authorized Representative.** Each Party represents and warrants to the other that it has full power and authority to enter into this Consent Decree. Each person signing this Consent Decree on behalf of a Party hereby represents that he or she is fully authorized by the Party to execute this Consent Decree and to bind the Party to its terms and conditions.

²⁶ See 5 U.S.C. § 504; 47 CFR §§ 1.1501–1.1530.

28. **Counterparts.** This Consent Decree may be signed in counterpart (including electronically or by facsimile). Each counterpart, when executed and delivered, shall be an original, and all of the counterparts together shall constitute one and the same fully executed instrument.

Rosemary C. Harold
Chief
Enforcement Bureau

Date

Cameron Thurston

Date



STATE OF MICHIGAN

MICHIGAN PUBLIC SAFETY COMMUNICATIONS INTEROPERABILITY BOARD

LANSING

STATUS/UPDTAE OF CUURENT ACTIONS REPORT TO THE MPSCIB – MONTH YEAR – EMERGENCY ALERT SYSTEM (EAS) & INTEGRATED PUBLIC ALERT AND WARNING SYSTEM (IPAWS) WORKGROUP

Interop Board Action Items

Identify actions or decisions the workgroup is requiring of the board

New Items

List items for update and awareness for the boards knowledge since the last quarterly report

The EAS LPI Implementation Planning meeting was held on May 21. This discussion developed various workgroups to tackle the implementation of additional efforts surrounding public alerting, to include Technology (new statewide system), Training (program and plans), Public Education (development of plans, materials, and campaigns), and Policy (standardize policy, plans and procedures governing the use of a statewide system). Within these workgroups, outcomes and tasks were developed, including deadlines that align with the EMHSD strategic plan item for a statewide EAS. Thorough updates on the approved recommendations and implementation plan will be presented to the EAS Workgroup during the meeting on Thursday, May 24. Additional follow up in the regions will likely occur through the summer and early fall to continue discussion and progress updates are provided to the field.

Brianna Briggs will be on maternity leave estimated from early June through mid-late August. Jaclyn Barcroft will continue to move the project forward in her absence and provide pertinent updates from EMHSD to the board.

MSP/EMHSD has updated the internal EAS policy because of the Hawaii false message incident. This policy addresses sending messages for local emergency management programs and statewide messages, correcting false/inaccurate messages, and system testing. These updates will ensure additional fail safes are in place to avoid mistakes such as the false missile EAS message that was sent in Hawaii.

Participated as a panel member with FEMA representatives from the Joint Interoperable Test Command (JITC) and Technological Hazards Section, and the Chair of the Region 5 Radiological Assistance Committee for a presentation at the National Radiological Emergency Preparedness Conference on April 18, 2018 in Seattle Washington. This presentation demonstrated how the use of IPAWS can be used to alert and warn the public.

Participated with FEMA on May 2, 2018 in presenting an e-Forum through the Emergency Management Institute on the topic of utilizing the FEMA JITC center in Maryland for testing message content when issuing EAS and WEA alerts.

Discussions continue with Indiana on the topic of cross-border EAS messaging and the development of local MOUs between County originators and media broadcasters. Also researching how Indiana instituted their First Informer Program for broadcast engineers working with the local Emergency Management Programs.

What's on the Horizon

Identify any work efforts, meetings, or information for upcoming activities the board should be aware of

The previous EAS Workgroup meeting scheduled for late April was postponed until Thursday, May 24.



STATE OF MICHIGAN

MICHIGAN PUBLIC SAFETY COMMUNICATIONS INTEROPERABILITY BOARD

LANSING

Work efforts on the implementation of the statewide EAS will begin on/around June 4, 2018.

Training and Exercises

Identify any training or exercises the workgroup has or will be participating in

Local EM Programs continue to train on the use of IPAWS and originate test messages and live RWT alerts.



STATE OF MICHIGAN
MICHIGAN PUBLIC SAFETY COMMUNICATIONS INTEROPERABILITY BOARD
LANSING

STATUS OF CURRENT ACTIONS REPORT TO THE MPSCIB – JUNE 12, 2018
MICHIGAN'S PUBLIC SAFETY BROADBAND WORKGROUP

State and Local Implementation Grant Program (SLIGP) – Round 1

The State received an award in the amount of \$3.8M (\$3.047M federal funds / \$760K match) for the September 2013- Feb 2018 performance period. The purpose of the grant was to conduct education and outreach related to the Nationwide Public Safety Broadband Network (NPSBN), the First Responder Network Authority (FirstNet), and participation in the state plan review process. Grant funded activities included:

- Presentations at 62 conferences and fraternal organization events. Over 3,336 stakeholders were directly engaged - this number is taken from participant sign-in sheets and does not include general session audiences or groups that were not formally tracked.
- 131 attendances (this includes state and local stakeholders) at 43 state and national events, conferences, and training opportunities).
- Conducted 14 outreach webinars.
- Hosted the initial FirstNet Consultation meeting with 110 attendees representing state, local, tribal, federal, and industry stakeholders.
- Conducted two data collection efforts used to identify Michigan's priorities for buildout of the NPSBN. Responses represented an estimated 29% of all first responders within the state, and included a representative distribution between public safety disciplines, as well as urban and rural departments. Our analysis was submitted to FirstNet in September 2015 and a supplemental report in September 2016.
- Co-sponsorship of Michigan's Interoperability Conference

State and Local Implementation Grant Program (SLIGP) – Round 2

The state received the award notification for SLIGP 2 funding, in the amount of \$1.5M (\$1.2M grant / \$300K match) in support of MiPSB program operations. The performance period is March 1, 2018 – February 29, 2020; eligible expenditures are retroactive to March 1st.

Key initiatives planned for the two-year performance period include:

1. Oversight of Michigan's public safety broadband program and ongoing coordination with FirstNet;
2. Planning for emergency communication center transition to FirstNet including PSAPs, EOCs, and Fusion Centers (formerly FirstNet/PSAP integration);
3. Identifying and documenting coverage gaps between the coverage presented in the FirstNet State Plan portal and actual coverage;
4. Governance, including development of policies and agreements, and update the SCIP to include training and exercises.
5. Co-sponsorship of Michigan's Interoperability Conference

All grant activities must be in support of planning for the adoption of FirstNet. Evaluation and/or comparison of other carriers is not an allowable expense, and education and outreach activities, unless requested by FirstNet, are not allowable expenses under SLIGP 2.

Planning for Emergency Communication Center Transition

Objective – Identify the current level of technology at PSPAs, EOCs, and other emergency communications centers and develop a planning document for these facilities to identify what they would need to do to effectively integrate with FirstNet. This will be achieved through surveys, regional workshops, and direct outreach to a limited number of facilities to determine the current level of technology, and coordination with AT&T/FirstNet to identify the requirements for integration at various technical levels.

Network Coverage Testing

Objective – Partnering with AT&T, MSP, DNR, and MPSCS, conduct network testing to obtain a comprehensive picture and documentation of the actual FirstNet network coverage. In the event an area's coverage does not meet that which was represented as "covered" in the Initial Operational Capability phases in the FirstNet State Plan, the state will meet with AT&T to review and address the issue.

Cell on Light Truck (COLT) Deployable Assets

As reported at the March 13, 2018, meeting, there will be two (2) dedicated COLT deployable assets assigned to the State of Michigan. The MiPSB Workgroup submitted their recommendation for both a procedure to request deployment of the COLTs and staging locations. The recommendation was returned to the workgroup for further coordination between the Michigan Public Safety Communications System (MPSCS) and the MSP Emergency Management and Homeland Security Division (EMHSD). Mr. Stoddard and Capt. Kelenske met on April 20, 2018, the report from that meeting is still pending.

Assistance for Agencies Working with Public Safety Broadband Vendors

The MiPSB Workgroup is developing a document intended to assist public safety agencies as they work with broadband vendors. It is not intended to conduct an analysis or recommendation of any vendor over another. The document provides terminology in layman's terms and a list of questions they may want to use when working with a public safety broadband vendor. The draft document is included in the MPSCIB meeting packet, and is intended to be presented for adoption by the MiPSB Workgroup at the June 12, 2018, meeting.



Michigan's Public Safety Broadband Program Public Safety Broadband Provider Questionnaire

This paper is intended to provide guidance for public safety agencies to form a clear and comprehensive picture of the services being offered as they work with broadband providers.

Frequently Asked Questions:

In laymen's terms, what is the purpose of the dedicated public safety core and what value does it bring to the agency and/or the individual user?

The core serves as the brain and nervous system of the network. In the case of the NPSBN, the dedicated public safety core will only handle traffic from public safety devices, with all commercial traffic going through the commercial core. It supports priority and preemption capabilities, end-to-end encryption, and enhanced service management. All traffic traversing the dedicated public safety core is immediately recognized and given priority access at the tower and through the network.

Are there "Public Safety Grade" standards?

"Public Safety Grade" is a conceptual term that refers to the expectation of emergency response providers and practitioners that their equipment and systems will remain operational during and immediately following a major natural or man-made disaster on a local, regional, or nationwide basis.¹ Examples include but are not limited to: network and site hardening, extended backup power supply, network redundancies, and self-healing networks. Public safety should expect the equivalent of 99.999% service availability performance.

Broadband Provider Questionnaire:

1. In what ways will your public safety service meet or exceed the service levels currently available with commercial offerings?
2. What advantages do you offer compared to other public safety broadband provider offerings?

¹ [National Public Safety Telecommunications Council \(NPSTC\) Defining Public Safety Grade Systems and Facilities](#)

3. Do you have a dedicated public safety core?
 - a) How does your dedicated core compare and contrast to other providers' dedicated core(s)?
4. Are Priority and Preemption available?
 - a) How do I get access to these services?
 - b) Does it apply to both voice and data?
 - c) Are there any exclusions (i.e. high definition video)?
5. Who can get priority access to the network within the following context:
 - a) Do you differentiate between "primary" public safety agencies and "extended" public safety agencies?
 - i) Please provide a list of "primary" public safety entities by NAIC code, if applicable.
 - ii) Please provide a list of "extended" public safety entities by NAIC code, if applicable.
6. Is there a state or federal government contract in place? If so, how do I purchase from it?
 - a) Can you provide a copy of the Terms/Conditions of the contract?
 - b) Can you provide a copy of the Service Level Agreements (SLA)s of the contract?
 - i) What are the service response times defined in the SLA?
 - c) What are the costs for services and devices?
 - d) Are there limits, throttling, or other exceptions to your Unlimited Plan offering?
 - e) Can we use existing devices (handhelds, modems, CAD interface, etc.)?
 - i) If not, can we get discounts on new equipment?
 - f) How frequently can phones be upgraded at no cost?
 - g) Do you offer a "subscriber paid" and/or "Bring Your Own Device (BYOD)" option for users?
 - i) If you offer a BYOD option, how are the users vetted?
7. How are users managed?
 - a) Who has the ability to manage devices?
 - b) How many administrative users can be established on an account?
 - c) How are lost or stolen devices managed?
 - d) What steps will you take to ensure only active public safety personnel will have access to the network?
 - e) Will your management tool allow me to determine the status of cellular sites / network health in my jurisdiction?

8. Do you have a dedicated, 24/7 customer support desk?
 - a) What training will be provided for public safety users and device managers prior to beginning to use the service?
9. Can you provide guaranteed or realistic Coverage and Capacity maps for agency jurisdictions?
 - a) Can you describe how the following will be addressed:
 - i) adequate in-building coverage, including underground parking?
 - ii) known coverage gaps in each jurisdiction?
 - b) Is test equipment available? If so, for what duration?
10. Does your network meet NPSTC recommended Public Safety Grade Standards²? If so, how is this achieved (site hardening, extended backup power supply, network redundancies, self-healing networks, etc.)?
 - a) What type of extended backup power supply do you use?
 - b) Do you have a priority service contract for fuel supply?
11. Will there be secure back-end connectivity to PSAP/Dispatch/Data Centers for access to CAD, crime data, and other local applications/databases? Specifically, how will these secure connections be provided?
12. Will there be adequate cyber-security and security of sensitive law enforcement data (CJIS, CRIMS, COPLINK, ARIES Data Warehouse, etc.), at no extra cost for those users who need access to law enforcement data?
13. Can you describe the applications provided through your broadband service that are available today to increase our communications capability?
 - a) Will your network have an applications store dedicated to public safety?
 - i) If so, will the applications within the store be interoperable with other provider networks on all devices?
14. Are you providing deployable assets as a means to provide additional coverage or capacity at public safety events?
 - a) If so, what is the response time for a deployable asset to the different Michigan regions (e.g., Upper Peninsula, Northern Lower Peninsula, Eastern Lower Peninsula, Central Lower Peninsula, Western Lower Peninsula)?
 - b) How will you address expanded large event capacity, including pre-planning and enhanced capacity solutions?

² [National Public Safety Telecommunications Council \(NPSTC\) Defining Public Safety Grade Systems and Facilities](#)

15. Can you describe your products and services roadmap and provide a timeline for each?
 - a) When do you propose to provide enhanced network location-based services including Z-axis?
16. How will you address technology refresh and upgrade cycles?
 - a) Will this involve system downtime and how will we be informed of downtimes?
 - b) Will technology refreshes have an additional cost?
17. Do you have any case studies or contacts for agencies that are currently using your service?

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STATE OF MICHIGAN
MICHIGAN PUBLIC SAFETY COMMUNICATIONS INTEROPERABILITY BOARD
LANSING

STATUS OF CURRENT ACTIONS REPORT TO THE MPSCIB
JUNE 2018 – FIRE PAGING

Interop Board Action Items

None at this time

New Items

Have met three times as a workgroup

Identifying lessons learned/best practices

What's on the Horizon

Next meeting June 11th 2:00-3:00

Development of dealer standards to assure some level of consistency

How to request network coverage maps (signal level guidelines)

- Identify building types (1 – 5) and create a survey to help establish coverage expectations

Script out logical testing criteria and check lists (prelaunch)

Write white paper for interested agencies to consider

Vic Jensen – Unication retired. Primary interface between MPSCS and Unication product engineering

Training and Exercises

Discussing a brief test for firefighters to pass before getting a pager

Dealers should be required to provide the training