The Georgia Emergency Communications Authority held the board meeting on March 12, 2019 at the Georgia Emergency Management and Homeland Security Agency (GEMA/HS) Headquarters. A List of Attendees, an Agenda, and the Amended By-Laws are attached hereto and made official parts of these minutes as Attachments #1, #2, and #3. Cheryl Greathouse the Chairperson of the Georgia Emergency Communications Authority called the meeting to order at 10:00 AM.

All board members are present except Commissioner Lynne Riley from the Department of Revenue, Michael Wall from Comcast, Alex Lee from Lanier County.

Chairperson Greathouse welcomed everyone to the GEMA/HS Headquarters in Atlanta, Georgia. Also, Chairperson Greathouse thanked all of the Board members for attending the meeting and the Georgia Emergency Communications Conference the previous week. Representative Norma Torres from California introduced the 9-1-1 SAVES Act in Congress. This is an effort to change the standard occupational classification of 9-1-1 telecommunicators. This could eventually cause issues with federal funding initiatives.

Roll Call

Approval of the Minutes:
Michael Nix presented the minutes of the December 13, 2018 meeting for discussion and approval. Chairperson Greathouse asked for a motion for the approval of the minutes; Chief
Billy Grogan made a motion to approve the minutes. Col. Mark McDonough seconded the motion. The motion passed unanimously.

**Executive Director’s Update**

Michael Nix provided an update on the Georgia Emergency Communications Authority’s (GECA) current projects. GECA is currently applying for 911 grants, partnering with the Georgia Public Safety and Training Center (GPSTC) and P.O.S.T., collecting data regarding 911 fees, partnering with the Department of Revenue (DOR), Studying future options for Land Mobile Radio (LMR), and working with local partners to improve ESF-2. Georgia is serving as a pilot state for improved training and use of IPAWS.

Michael Nix gave an update on fee remittance. The July 1, 2018 to December 31, 2018 prepaid distributions are expected to process on March 6, 2019 and deposited into accounts by March 8, 2019. The GECA January remittances was about $142.3K. Expect other than prepaid money to increase as more vendors come into compliance. It is too early to create an Annual Operating Budget, but will have AOB prepared for June 2019 Board meeting for FY 2020.

Michael Nix reviewed the Supreme Court ruling on Bellsouth Telecommunications, LLC et al. v. Cobb County et al. The case found that the 911 fee is a tax. Counties could not file suit to collect the tax because the 911 Act did not authorize such action.

Michael Nix provided additional details about the 911 SAVES Act and encouraged Board members to vocalize their support to their representatives. He also informed the Board about vertical location accuracy. On March 19th, the FCC will consider a further notice of proposed rulemaking that would do the following: propose to specify a vertical location metric of +/- three meters for 80% of indoor wireless E911 calls.

**Board Presentations**

Executive Director Michael Nix opened up the floor for Board Presentations.

Presentation by Chuck Murph, Gerald Risner, and Lee Ballentine providing an update about FirstNet in Georgia. They have increased the LTE coverage area for the AT&T network and FirstNet public safety communications platform by more than 50,000 square miles nationwide. The first seventy-two FirstNet Satellite Deployables (SatCOLTs) assets are ready for emergency incident requests and planned events. In preparation of Super Bowl LIII, AT&T invested $43 million on new small cell locations and added or upgraded existing DAS.

**Old Business**

Director Jason Lawson provided an update on the T-CPR Taskforce and they are working on their formal recommendation for the Board. The taskforce is made up of Jason Lawson, Melissa Alterio, Danny Murray, Anessa Westmoreland, and Paula Whaley. The T-CPR Taskforce has met twice with its members and the American Heart Association. There are implications related
to governance, medical oversight, funding, staffing, and training, which must be addressed before this program can be successfully implemented statewide.

Chairperson Greathouse gave an update on the Crisis Intervention Team (CIT) for 9-1-1. GPSTC now has two instructors in the CIT section with 9-1-1 background. The classroom course will mainly be scenario-based and review the online material. The online portion is scheduled to start on April 1st. Other agencies will have the ability to host the class. The course will be ready as early as mid-May or early June.

New Business
Chairperson Cheryl Greathouse opened up the floor for new business.

Michael Nix presented the NG911 Grant Program Plan for discussion. Funds must be spent by March 31, 2022. Phase 1 is NG911 Strategic Plan and Assessment, Phase 2 is NG911 GIS Readiness Assessment, Phase 3 is NG911 Training, and Phase 4 (optional) is NG911 seamless interoperability Call Handling Grants, if supplemental funds are available. The grant application will be turned by April 2nd.

Michael Nix presented the amendments to the By-Laws for discussion and approval. Chairperson Greathouse motioned for the adoption of the amended By-Laws; Peter Olson made a motion to approve the amendments to Article 4, Section 4 in the second sentence to say “the chairperson may appoint standing, special committee, and working group members”. John McDonough seconded the motion. The motion passed unanimously.

Michael Nix presented the plan to create working groups for discussion and approval. Chairperson Greathouse motioned for the approval and creation; Ted Wynn made a motion to create the working groups. Greg Whitaker seconded the motion. The motion passed unanimously.

William Wright suggested the GECA Board host a work session in a few months to discuss these ideas and get to know one another.

Adjournment:
There being no further business to be brought before the Board, Chairperson Cheryl Greathouse called for a motion to adjourn. Greg Whitaker made a motion and Ted Wynn seconded the motion. The motion passed and Chairperson Cheryl Greathouse adjourned the meeting at 11:27 AM.

These minutes are hereby approved and adopted this the 11th day of June, 2019.

Cheryl Greathouse
Chairperson

William Wright
Secretary
Official Attachments:
1. List of Attendees
2. Agenda
3. Amended By-Laws
4. Meeting Presentation

BOARD OF DIRECTORS OF THE GEORGIA EMERGENCY COMMUNICATIONS AUTHORITY

TUESDAY, MARCH 12, 2019
10:00 AM TO 12:00 PM
GEORGIA EMERGENCY MANAGEMENT AND HOMELAND SECURITY AGENCY
TRAINING ROOM

BOARD MEETING ATTENDEES

Board Members:
Cheryl Greathouse, Chairperson
Billy Hancock, Vice Chairperson
William Wright, Secretary
Col. Mark McDonough
Greg Whitaker
Ted Wynn
Peter Olson
John McDonough
Kevin Curtin (via conference call)
Billy Grogan
Steve Nichols

9-1-1 Advisory Panel:
Joe Barasoain, Fulton County
Jonathan Jones, Athens-Clarke Police Department
Tamika Kendrick, NENA
Jason Lawson, Troup County
Lynn Smith, APCO

Others Attending:
Kelly Barnard (via conference call)
Lee Ballentine, FirstNet
Monica Douglas (via conference call)
Kurt Eckertern
Chris Faircloth
Chris Flowers
William Gaston, DOR
Shirqea Graham
Keith Kelley (via conference call)
Natalie Lee
Ginger Lepage
Jean Martin (via conference call)
Susan Miller
Jackie Mines
Chuck Murph, FirstNet
Bob Murphy
Danny Murray (via conference call)
Kimberly Oglesby (via conference call)
Gerald Risner, FirstNet

GEMA/HS Staff Members:
Michael Nix
Bess Larson
Ashley Seay
Edwin Whitworth
Board of Directors of the Georgia Emergency Communications Authority

Tuesday, March 12, 2019
10:00 AM-12:30 PM
GEMA/HS HQ
Training Room

WebEx Information:
gema.webex.com
Meeting number (access code): 644 065 418
Meeting password: 3-12GECA911

Meeting Agenda*

I. Call to Order/Opening Remarks—Chairperson Cheryl Greathouse

II. Roll Call—Secretary William Wright

III. Approval of December 13, 2018 Minutes—Chairperson Cheryl Greathouse

IV. Executive Director's Update—Michael Nix

V. Board Presentations
   A. FirstNet in Georgia Update—Chuck Murph/Gerald Risner/Lee Ballentine

VI. Old Business
   A. T-CPR Taskforce Update—Director Jason Lawson
   B. CIT for 911 Update—Cheryl Greathouse

VII. New Business
A. Discuss National 911 Grant Program Plan
B. Approve amendments to By-Laws (creates new committees)
C. Approve creation of working groups

VIII. Adjourn

*Meeting Agenda is subject to change
BY-LAWS OF THE BOARD OF DIRECTORS OF THE GEORGIA EMERGENCY COMMUNICATIONS AUTHORITY

STATE OF GEORGIA

ARTICLE I – Office

The office of the Board shall be at the office of the Georgia Emergency Management and Homeland Security Agency, 935 United Ave. SE, Building 2, Atlanta, Ga 30316, which shall be the mailing address of the Board. Meetings may be held at the office or at such other place as designed by the Chairperson.

ARTICLE II – Members

Section 1. Members. Membership on the Board shall be specified in O.C.G.A. § 38-3-182.

Section 2. Voting. Each member, including the Chairperson, shall be entitled to one vote on each matter submitted to a vote of the members. When a quorum is present, voting and official business may be conducted via telephone or video conference.

ARTICLE III – Meeting of Members

Section 1. Regular or Special Meetings. The Board shall meet in regular session quarterly or at such times as the Board may deem appropriate. A written notice of the date, time, and place of any meeting shall be given at least three days in advance by the Secretary to each member. The Board shall meet in special session whenever called by the Chairperson or by nine or more members.

Section 2. Place of Meeting. Meetings may be held at the office of the Board or at such other place as designated by the Chairperson, or, in the event of a special meeting called by nine or more members, as is designated by the Secretary in the notice.

Section 3. Quorum. Nine or more members shall constitute a quorum for the discharge of any business.

Section 4. Proxies and Mail. No member may vote by proxy and no member may vote by mail.

Section 5. Appointment and Removal of Administrative Officers. Any appointments required to be made by the Board shall be by an affirmative vote of a majority of the membership present at a regular or called meeting of the Board.

ARTICLE IV – Officers

Section 1. Officers. The officers of the Board shall be the Chairperson, Vice-Chairperson, and the Secretary.

Section 2. Election and Term of Office. The Chairperson, Vice-Chairperson, and the Secretary shall be elected annually by the Board at its regular meeting in
September, or as soon thereafter as convenient. Each officer shall hold office until his or her successor is duly elected. Officers may succeed themselves.

**Section 3. Vacancy.** The offices of Chairperson, Vice-Chairperson, and Secretary may be removed by a majority of the Board whenever in its judgement the best interest of the Board would be served thereby, or by death, resignation, or disqualification of the incumbent. Any vacancy may be filled by the Board for the unexpired portion of the term.

**Section 4. Chairperson.** The Chairperson shall be the principal officer of the Board and shall generally supervise and control all of its business and affairs. The Chairperson shall preside at all meetings of the members. The Chairperson may appoint all standing committee, working group, and special committee members and the Chairperson may delegate specific duties to all Board members, except where expressly provided otherwise herein. The Chairperson shall perform all duties incident to the office of Chairperson and such other duties as may be prescribed by the Board, by executive order, or by law.

**Section 5. Vice-Chairperson.** In the absence of the Chairperson or in the event of the Chairperson’s inability or refusal to act, the Vice-Chairperson shall perform the duties of Chairperson, and when so acting, shall have all the powers of and be subject to all the restrictions upon the Chairperson. The Vice-Chairperson shall perform other duties as may be assigned to him or her by the Chairperson or by the Board.

**Section 6. Secretary.** The Secretary shall ensure the minutes of the Board meetings are kept in a book provided for that purpose. The Secretary shall see that all Notices are duly given in conformity with the provisions of the By-Laws or as required by law. The Secretary shall be the custodian of the Board records, which shall be kept in a location designed by the Secretary.

The Secretary shall keep a register of the addresses, telephone numbers, e-mail addresses, and other methods of contact for each member of the board, and shall perform all duties incident to the office of Secretary and such other duties as may be assigned to the Secretary.

**ARTICLE V – Committees**

**Section 1. Standing Committees.** There shall be standing committees for 911, Land Mobile Radio (LMR), ESF-2, and Public Safety Broadband. Each committee shall consist of a Chairperson and a minimum of two other members, all of whom shall be appointed by the Chairperson. The committees shall be responsible for: (1) providing oversight and guidance to the Authority and the Authority’s Executive Director with regard to all matters as provided for by law or by executive order; (2) keeping the Board Chairperson and the Board apprised of the activities of the respective committee; (3) bringing committee recommendations to the Board for discussion and official action. The responsibilities herein imposed on standing committees shall in no way deprive the Board
or any member from exercising its or his or her full power and authority to participate in the policy-making functions of the Board.

**Section 1.1. Working Groups.** Under each standing committee, there may be working groups created to lead and execute particular projects or activities requiring subject matter expertise and significant stakeholder input over an extended period. Membership on the working groups is open to participants outside of the GECA Board.

**Section 1.2. Task Forces.** Task forces are ad hoc and established at the direction of the Executive Director of the Georgia Emergency Communications Authority or the Board Chairperson, and may include GECA Board members from multiple committees as well as outside participants charged with creating a defined product over a short period and will report directly to the GECA Board.

**Section 2. Committee Membership Terms.** Board members appointed to a standing committee shall serve for a one-year term, and may be reappointed at the discretion of the Board Chairperson. The Chairperson may appoint non-Board members to standing committees in an advisory, nonvoting capacity.

**Section 3. Special Committees.** The Board may create such special committees as are deemed necessary or desirable. The membership, functions, and duties of each such committee shall be specified by the Chairperson.

**ARTICLE VI – Seal**

The Board may have its own seal or use the seal of the Georgia Emergency Communications Authority as the seal of the Board.

**ARTICLE VII – Amendments to By-Laws**

The By-Laws may be altered, amended, or repealed and new By-Laws may be adopted by a two-thirds majority of the Board members, at any regular or special meeting, if at least a three-day written notice is given of intention to alter, amend or repeal, or to adopt new By-Laws at such meeting. The By-Laws, and any change there in, shall be kept by the Secretary at the front of the minute book and shall be available at each meeting.
Georgia Emergency
Communications Authority

March 12, 2019 Board Meeting

GECA’s current projects

- **911**
  - Applying for federal 911 grants
    - Georgia is eligible for $3,994,283 (60%) in federal money with state match of $2,662,855 (40%) for a total of $6,657,138.
  - Partnering with GPSTC and P.O.S.T. Council to increase and improve training for 911 personnel
    - State Communications Officer training
    - Crisis Intervention Team (CIT) for 911 training (pilot course – early April)
  - Collecting data regarding the operation of PSAPs
  - Centralizing the 911 fee collection and disbursement process by partnering with DOR

GECA’s current projects (cont.)

- **LMR**
  - Studying future options for land mobile radio (LMR) in the state

- **ESF 2**
  - Working with our local partners to improve the response process for communications leaders and technicians in areas affected by a disaster (COML, COMT, TERT)
  - Coordinating with other states to improve out-of-state resource requests

GECA’s current projects (cont.)

- **Public Safety Broadband**
  - Working with the FirstNet Authority, FirstNet/AT&T, and other carriers to ensure public safety communications needs are met
  - Transitioning our backup communications (SouthernLinc) from iDEN to LTE

- **Alerts and Warning**
  - Updating the state’s emergency alert system (EAS) and Integrated Public Alerts and Warning System (IPAWS) plans to create an operational plan
  - Serving as a pilot state for improved training and use of IPAWS
**New 911 fee process update**

- **Prepaid and other than prepaid distributions**
  - Scheduled to be processed on the 10th business day of the month and local governments should have in account by the 12th business day
  - Process on March 14, 2019 and deposited by March 18, 2019
- **July 1, 2018-Dec. 31, 2018 prepaid distribution**
  - Expected to process on March 6, 2019 and deposited into accounts by **March 8, 2019**

**GECA January remittances**

- **Other than prepaid distribution (1%)**
  - $9.63 million ≈ $96.3K
- **Prepaid distribution (1%)**
  - $4.60 million ≈ $46K
- **Total**
  - ≈ $142.3K

- Expect “other than prepaid money” to increase as more vendors come into compliance.
- Too early to create an Annual Operating Budget, but will have AOB prepared for June 2019 Board meeting for FY2020.

---

**Supreme Court ruling**

**BELLSOUTH TELECOMMUNICATIONS, LLC et al. v. COBB COUNTY et al.**

**Background:**
- Cobb and Gwinnett Counties filed suit against telephone companies for the failure to collect and remit to the counties certain charges for 911 services.
- Additionally, lawsuits have been filed by 20 local governments seeking more than $110 million in 911 charges from more than 50 telephone companies.
- The Counties alleged that the telephone companies did not bill customers the proper amount for VoIP.

**Key Findings:**
- 911 fee is a tax.
- Counties could not file suit to collect the tax because the 911 Act did not authorize such action.

**HB 751:**
- Clarified the definition of VoIP and what constitutes a separate phone line
- Clarified that the 911 fee “shall” be $1.50
- Gave GECA the ability to audit service suppliers and right to bring collection actions
- GECA is authorized to bring an administrative action for a civil penalty against telephone companies that fails to bill the monthly 911 charge
911 SAVES Act

- Introduced by Rep. Torres (CA-35) and Brian Fitzpatrick (PA-1) on March 7, 2019.
- Would direct the Office and Management and Budget (OMB) to update their classification for public safety telecommunicators (PST) as a protective service within the SOC catalog.
- Federal agencies rely on the SOC, a vast catalog of occupations, for statistical purposes.
- Would better align the role of the PST
  - Move from "Office and Administrative Support Occupations" to "Protective Service Occupations"
- Assigned to House Committee on Education and Labor

Vertical Location Accuracy

- On March 19th, the FCC will consider a further notice of proposed rulemaking that would:
  - Propose to specify a vertical location metric of +/- 3 meters for 80% of indoor wireless E911 calls
  - Tentatively find that 3-meter metric would be:
    - Sufficiently accurate to identify the caller’s floor level in most cases, and
    - Technically feasible within the timeframes specified in the rules
  - Tentatively find that the 5-meter metric proposed by the nationwide wireless providers would not be precise enough to meet public safety needs

FirstNet: Our Nation’s Public Safety Network

Georgia Emergency Communications Authority

March 12, 2019

FirstNet: The FirstNet Journey

2001
9/11 attacks
Radio communication challenges first responders

2004
9/11 Commission
- Recommends national radio spectrum for public safety purposes
- Public safety unites to advocate for nationwide broadband network

2012
The First Responder Network Authority
Independent agency to deploy Nationwide Public Safety Broadband Network

2012-15
Outreach
- Outreach to public safety agencies
- Governors identify FirstNet single points of contact (SPOCs)

2015-16
Consultation
- Consultation in all 56 states/territories
- FirstNet works with states to collect and validate users and coverage data

2016-17
Partnership and State Plans
- Network RFP released
- Award to AT&T
- Delivery of 56 state/territory plans
- Governors’ decisions on FirstNet buildout

2018-22
Nationwide Deployment and Adoption
- Nationwide expansion and buildout of Band 14 for public safety’s broadband network
An Innovative Public-Private Partnership

First Responder Network Authority

- Partner oversight and support
- Public safety advocate
- Technical expertise
- Innovation strategy and investment

AT&T

- Nationwide core
- RAN build-out
- FirstNet built for customer care (24/7/365)
- Security operations center
- Mission-critical services
- App and device ecosystems

Strategy: Aligning and Guiding Our Efforts for Public Safety

- Guides our actions now through 2022 so we’re aligned/able to meet our mission for public safety
- Metrics-based so we can validate we’re meeting our goals
- Living document gives direction and structure, while encouraging growth, change, and collaboration

MISSION
We are a catalyst for advancing the nationwide public safety broadband network

VISION
Create a dedicated and differentiated broadband communications experience that transforms public safety operations to save lives

- Guides our actions now through 2022 so we’re aligned/able to meet our mission for public safety
- Metrics-based so we can validate we’re meeting our goals
- Living document gives direction and structure, while encouraging growth, change, and collaboration

FirstNet Update

- 5,000 FirstNet-qualified organizations have subscribed to more than 450,000 to date
- Successfully deployed SatColts for Search and Rescue Missions, Hurricane Michael and Super Bowl
- Launched Dedicated Public Safety Network
Expanding Coverage

- 40% of the overall deployment of the 700 MHz Band 14 spectrum licensed to the FirstNet Authority completed as of the end of 2018. AT&T is contracted to complete the contracted FirstNet buildout by the end of March 2022.

We increased the LTE coverage area for the AT&T network and FirstNet public safety communications platform by more than 60,000 square miles nationwide, covering an additional 1 million individuals.

Super Bowl Investment

- AT&T invested $43 million in preparation of Super Bowl LIII.
- Outside the stadium, AT&T launched hundreds of new small cell locations and added or upgraded existing the DAS at 30 additional locations in Atlanta.
- Deployed five Satellite Cell on Light Trucks (COLTS) that will ensure fans in high-density areas have 4G LTE coverage.
- Estimated 3,000 FirstNet users at and around Super Bowl.

FirstNet Core Benefit – FirstNet Deployables

The first 72 FirstNet Satellite Deployables (SatCOLTs) assets are ready.

FirstNet SatCOLT assets support various scenarios:
- Emergency incident requests
- Planned events
- Design enhancements being developed
  - The 72 FirstNet SatCOLTs will be Band 14 enabled
  - Provide voice (including Voice over IP, VoLTE), data, location, messaging, First Priority™ (QPP)
  - Capability of up to 25Mbps downlink and 8 Mbps uplink

Local Control and the App Ecosystem

- FirstNet Landing Page
- Local Control Interface
- Application Store
- Network Availability Alerts
- Network Outage Alerts
- Weather and Traffic Alerts
- Access to user security profile
- Shop for mobile devices and plans
- Public Safety Applications Catalog
- Device Security Tools
- Private Connection Software
- Cloud Storage Solutions
- Application Developer Program
- Emergency Hold-In
THANKS TO TASKFORCE MEMBERS

• Melissa Alterio—Director, City of Roswell 911
• Danny Murray—Training Coordinator, Forsyth County 911
• Anessa Westmoreland—Instructor Trainer, GPSTC
• Paula Whaley—Director, Seminole County 911

Special Thanks to Michael Cortes—American Heart Association

T-CPR TASKFORCE MEETINGS

• February 6, 2019: T-CPR Taskforce met with the American Heart Association at GPSTC.
• March 6, 2019: T-CPR Taskforce held a meeting/conference call with its members to discuss next steps.
HB 1016 (FROM 2018)

“(e) On and after July 1, 2018, the basic training course for communications officers shall include training in the delivery of high-quality telephone cardiopulmonary resuscitation (T-CPR), and no person shall on or after that date be certified by the council under this Code section unless such person has satisfactorily completed such training. The training shall follow the most current evidence based nationally recognized guidelines for high-quality telephone cardiopulmonary resuscitation which incorporate recognition protocols for out-of-hospital cardiac arrest, compression only cardiopulmonary resuscitation, and continuing education. The council shall conduct administrative compliance reviews with respect to the requirements of this subsection, including adherence by communications officers and local governmental agencies, and may adjust state assistance grants under Code Section 46-5-134.2 based on failure to comply with the requirements of this subsection.”

T-CPR TASKFORCE RECOMMENDATION

While the Taskforce agrees that T-CPR can be a life-saving intervention, we recognize the many challenges this functions presents to PSAPs across the state, regardless of size or area. There are implications related to governance, medical oversight, funding, staffing, and training which must be addressed before this program can be successfully implemented statewide. While we have had spirited and in-depth discussions, there is much more work that needs to be done before formal recommendations can be submitted to the GECA Board.

THANK YOU! | ANY QUESTIONS?

Contact Information:
Jason Lawson
Director
Troup County E-911
100 Ridley Avenue
LaGrange, GA 30240
Office: (706) 883-1700
Mobile: (706) 523-2295
jlawson@troupco.org
www.troupcountyga.org

Georgia Emergency
Communications Authority

CIT for 911 Update
• Georgia is eligible for $3,994,283 (60%) in federal money with state match of $2,662,855 (40%) for a total of **$6,657,138**.

• The funds must be used for NG911 planning and implementation.

• Funds must be spent by March 31, 2022.
  • Revised NOFO reduced period of performance from four years to three years.
  • Request denied from NTIA to extend period of performance back to four years.

---

**National 911 Grant Program**

**Phase 1**
- NG911 Strategic Plan and Assessment
  - NG911 Stakeholder Engagement and Communications Planning
  - NG911 GIS Readiness Assessment

**Phase 2**
- NG911 GIS Readiness Assessment
  - GIS Stakeholder Engagement
  - NG Core GIS Data Strategy Development
  - NG 911 Core Data Technology Support

**Phase 3**
- NG911 Training
  - NG Core Technology, Policy, and Operations
  - NG Core Cybersecurity

**Phase 4 (optional)**
- NG911 seamless interoperability Call Handling Grants**
  - Block Funding for technology enhancements

**if supplemental funds are available**

---

**Proposed committees**

- GECA Board
  - 911
  - LMR
  - ESF-2
  - Public Safety Broadband
  - NG911
  - GIS
  - Training
  - COMU