METROPOLITAN EMERGENCY SERVICES BOARD
9-1-1 TECHNICAL OPERATIONS COMMITTEE AGENDA
December 17, 2020 10:00 a.m.
Webex Meeting Link

1. **Call to Order**

2. **Approval of Agenda**

3. **Approval of Minutes –** November 19, 2020 Meeting

4. **Action Items**
   A. Regional Workload Sharing and Situational Awareness Application Implementation Workgroup Formation

5. **Discussion Items**
   A. Pandemic Response
      1. Metro PSAP Consolidation Planning
      2. PSAP Consolidation Plan System Evaluation Team
   B. Coordination with State Patrol
   C. Telecommunicator Resiliency Program RFP
   D. System Outage Notifications
      1. Outage Notification Process – Review Current Draft
   E. Mental Health Call Processing Standard
   F. Telecommunicator Reclassification and Licensing Legislation

6. **Reports**
   A. PSAP Operations Round Table Work Group
   B. SECB NG9-1-1 Committee Report
   C. 9-1-1 Network Report (Attached)
   D. 9-1-1 Data Report (Attached)

7. **Announcements**

8. **Adjourn**

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9-1-1 Technical Operations Committee
November 19, 2020
Draft Meeting Minutes
Meeting Held via WebEx

Members Present

Laura Anderson, Sherburne County	Nancie Pass, Ramsey County
Scott Haas, Scott County	Heidi Hieserich, MSP Airport
Susan Bowler, Carver County	Cheryl Pritzlaff, Dakota County
Janelle Harris, Edina PD	LaVae Robinson, Minneapolis
Wade Johnson, Hennepin EMS	Marv Solberg, St. Louis Park PD
Jeff Lessard, U of Minnesota PD	Val Sprynczynatyk, Anoka County
Chad Loeffler, Metro Transit PD	Jake Thompson, Chisago County
Tony Martin, Hennepin County	Victoria Vadnais, Allina EMS
Melissa Carpenter, North Memorial	Lisa Vik, Eden Prairie PD
Darlene Pankonie, Washington County	

Guests: Bill Anderson; Metro Transit, Mary Ehrsam; Comtech SST, Matthew Hoffer; Lumen, Dawn Kenyon; Hennepin County, Mike Melby; North Memorial, Kari Morrissey; Anoka County, Mike Mihelich; Ramsey County, Lauren Petersen; MSP, Jon Rasch; RCECC
MESB Staff: Marcia Broman, Pete Eggimann, Tracey Fredrick, Jill Rohret, Martha Ziese

1. Call to Order
Heidi Hieserich (9-1-1 TOC Chair) called the meeting to order at 10:00 AM.

2. Approval of Agenda
M/S/C Motion made by Darlene Pankonie to approve the agenda for November 19, 2020. Tony Martin seconded. Motion carried.

Roll Call for Approval of Agenda

Agency	Member	Yes	No
Allina	Vadnais	X	
Anoka	Sprynczynatyk	X	
Carver	Bowler	X	
Chisago	Thompson	X	
Dakota	Pritzlaff	X	
Eden Prairie	Vik	X	
Edina PD	Harris	X	
Hennepin	Martin	X	
Hennepin EMS	Johnson	X	
MAC/Airport	Hieserich	X	
Metro Transit	Loeffler	X	
Minneapolis	Robinson	X	
North Memorial	Carpenter	X	
Ramsey	Pass	X	
Scott	Haas	X	

Sherburne	Anderson	X	
St Louis Park	Solberg	X	
U of M	Lessard	X	
Washington	Pankonie	X	

Yea:19 Nay: 0 Motion passes

3. Approval of Minutes

Pankonie recommended 3 changes to the minutes. The first change is to the clause of the After-Action Report. Dashes should be inserted between 911. The second change: there is an extra "as" in the sixth paragraph of the Workload Sharing Action item 4B. The third change is a recommendation to change the Ramsey County Participation Plan to a 9-1-1 Plan change request as referenced in the Network Report.

M/S/C Motion made by Darlene Pankonie to approve the amended minutes from October 15, 2020. Val Sprynczynatyk seconded. Motion carried.

Roll Call for Approval of Minutes

Agency	Member	Yes	No
Allina	Vadnais	X	
Anoka	Sprynczynatyk	X	
Carver	Bowler	X	
Chisago	Thompson	X	
Dakota	Pritzlaff	X	
Eden Prairie	Vik	X	
Edina PD	Harris	X	
Hennepin	Martin	X	
Hennepin EMS	Johnson	X	
MAC/Airport	Hieserich	X	
Metro Transit	Loeffler	X	
Minneapolis	Robinson	X	
North Memorial	Carpenter	X	
Ramsey	Pass	X	
Scott	Haas	X	
Sherburne	Anderson	X	
St Louis Park	Solberg	X	
U of M	Lessard	X	
Washington	Pankonie	X	

Yea: 19 Nay: 0 Motion passes

4. Action Items
A. TC Resiliency Training RFP

Pete Eggimann said the 9-1-1 TOC has been working on the Resiliency Training project since 2018. It is believed there will be grant money available, and the 9-1-1 TOC has recommended that the MESB go out for an RFP for this project.

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Eggimann said that an RFP was issued in 2018 but received only one response. An RFP was also written in 2019 but never issued because the grant funds were not available. Eggimann suggested that a new RFP be drafted with similar requirements as the previous RFPs, but also add wording for remote training options to allow the program to go forward if the pandemic safety recommendations are still discouraging face-to-face meetings.

Hieserich said she fully supports this recommendation.

M/S/C Motion made by Cheryl Pritzlaff, seconded by Victoria Vadnais to recommend approval of request for a Resiliency Program RFP. Motion carried.

4.A. Roll Call for Approval of After-Action Review Report

Agency	Member	Yes	No
Allina	Vadnais	X	
Anoka	Sprynczynatyk	X	
Carver	Bowler	X	
Chisago	Thompson	X	
Dakota	Pritzlaff	X	
Eden Prairie	Vik	X	
Edina PD	Harris	X	
Hennepin	Martin	X	
Hennepin EMS	Johnson	X	
MAC/Airport	Hieserich	X	
Metro Transit	Loeffler	X	
Minneapolis	Robinson	X	
North Memorial	Carpenter	X	
Ramsey	Pass	X	
Scott	Haas	X	
Sherburne	Anderson	X	
St Louis Park	Solberg	X	
U of M	Lessard	X	
Washington	Pankonie	X	

Yea: 19 Nay: 0 Motion passes

4.B. Regional Workload Sharing and Situational Awareness Application Implementation Recommendation
Eggimann said this recommendation was on last month's 9-1-1 TOC agenda. The recommendation went before the Board to ask that action be taken to implement this regional CAD-to-CAD Interoperability System. The Board did approve this action at the October 29, 2020 meeting. It is now before the 9-1-1 TOC to put together the implementation plan and identify the project components.

Hieserich asked if the committee members should be identified today. Eggimann suggested a work group be formed with five or six participants to begin working on a draft plan.

Hieserich suggested members discuss within their agencies and identify who might be a good fit in

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this role and email Eggimann with those names.

Sprynczynatyk asked if the Rapid Deploy Evaluation Team would be a good group to tap into.

Eggimann said the Rapid Deploy Team could be part of this workgroup to identify situational awareness requirements, but the RapidDeploy system is not a CAD-to-CAD interoperability as described in the Winbourne study.

Tony Martin asked if there were any other recommendations from the previous RFP.

Rohret said the Winbourne study identified a smart-hub CAD-to-CAD interoperability solution was a good concept. That concept would allow participating PSAPs to each work within their own native CAD systems with the smart-hub translating the data to the other PSAP's native CAD format. Rohret pointed out that the Winbourne study is three years old, so the project objectives may have changed. She suggested that a 9-1-1 TOC workgroup is needed to determine what the project objectives should be before any technical requirements are discussed. Rohret also identified sustainable project funding, system management, and system ownership all need to be part of the implementation plan. Rohret said there are different ways to do this and the time to do it right should be taken. The committee may want to consider using multiple work groups that could each focus on different aspects of the project plan.

Martin said it seems a varied group for all the different aspects of the project would be the way to go.

Hieserich said she recommended this goes forward approving the formation of a workgroup and follow up in a couple of weeks as to the representation.

Scott Haas asked if the appointments needed to be done by the 9-1-1 TOC; and how long might that hold up the formation of the workgroup.

Rohret said email is not considered valid for appointments, so the committee should appoint a work group in this meeting.

Eggimann said from a technical standpoint the TOC Chair and Vice-Chair could appoint members and form a workgroup.

Rohret agreed and said it could be ratified at the next board meeting.

Jeff Lessard said there are governance and policy differences between organizations and that could be potential for indemnification. He suggested it might be better to have all agencies involved to have representation instead of just a sub-set of the group.

Hieserich said as she understands the recommendation, it is to form a workgroup tasked with identifying the objectives the proposed system will solve, a system governance model, an implementation plan, how PSAPs would participate, and funding options.

Rohret said that if a workgroup can come up with draft project objectives, then the recommended objectives would go to the 9-1-1 TOC for approval. The workgroup could then move on and work on the other project elements, reporting to the 9-1-1 TOC for approval or discussion with a larger group.

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Rohret said it would be helpful to have a report back on what processes are needed to get this done in each agency and what their governance and operational needs are.

Lessard asked if the door could be opened to interested parties to participate in the workgroup.

Motion made by Nancie Pass, seconded by Val Sprynczynatyk for committee members to identify potential workgroup members by email to the Chair and Vice-Chair and to ratify those appointments in January.

Lessard said he would be supportive of getting this workgroup started earlier. Pass agreed.

Amended Motion made by Nancie Pass, seconded by Val Sprynczynatyk for committee members to identify potential workgroup members by email to Chair and Vice-Chair and to ratify those appointments at the December 17, 2020 9-1-1 TOC meeting. Motion carried.

4.B. Roll Call for Approval of Regional Workload Sharing and Situational Awareness Application Implementation

Agency	Member	Yes	No
Allina	Vadnais	X	
Anoka	Sprynczynatyk	X	
Carver	Bowler	X	
Chisago	Thompson	X	
Dakota	Pritzlaff	X	
Eden Prairie	Vik	X	
Edina PD	Harris	X	
Hennepin	Martin	X	
Hennepin EMS	Johnson	X	
MAC/Airport	Hieserich	X	
Metro Transit	Loeffler	X	
Minneapolis	Robinson	X	
North Memorial	Carpenter	X	
Ramsey	Pass	X	
Scott	Haas	X	
Sherburne	Anderson	X	
St Louis Park	Solberg	X	
U of M	Lessard	X	
Washington	Pankonie	X	

Yea: 19 Nay: 0 Motion passes

4.C. 2021 Chair Election/Vice-Chair
Motion made by Val Sprynczynatyk, seconded by Scott Haas to support Heidi Hieserich to continue as Chair of the 9-1-1 TOC 2021. Motion carried.

4.C.1 Roll Call on 2021 Chair Election

Agency	Member	Yes	No
Allina	Vadnais	X	

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Anoka	Sprynczynatyk	X	
Carver	Bowler	X	
Chisago	Thompson	X	
Dakota	Pritzlaff	X	
Eden Prairie	Vik	X	
Edina PD	Harris	X	
Hennepin	Martin	X	
Hennepin EMS	Johnson	X	
MAC/Airport	Hieserich	X	
Metro Transit	Loeffler	X	
Minneapolis	Robinson	X	
North Memorial	Carpenter	X	
Ramsey	Pass	X	
Scott	Haas	X	
Sherburne	Anderson	X	
St Louis Park	Solberg	X	
U of M	Lessard	X	
Washington	Pankonie	X	

Yea: 19 Nay: 0   Motion passed

Motion made by LaVae Robinson, seconded by Nancie Pass to support Val Spryncynatyk as Vice-Chair of the 9-1-1 TOC 2021. Motion carried.

4.C.2 2021 Roll Call for Vice-Chair Election

Agency	Member	Yes	No
Allina	Vadnais	X	
Anoka	Sprynczynatyk	X	
Carver	Bowler	X	
Chisago	Thompson	X	
Dakota	Pritzlaff	X	
Eden Prairie	Vik	X	
Edina PD	Harris	X	
Hennepin	Martin	X	
Hennepin EMS	Johnson	X	
MAC/Airport	Hieserich	X	
Metro Transit	Loeffler	X	
Minneapolis	Robinson	X	
North Memorial	Carpenter	X	
Ramsey	Pass	X	
Scott	Haas	X	
Sherburne	Anderson	X	
St Louis Park	Solberg	X	
U of M	Lessard	X	
Washington	Pankonie	X	

Yea: 19 Nay: 0   Motion passed

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5. Discussion Items
A. Pandemic Response
Michael Mihelich reported that Rapid Deploy is planning to migrate the metro area application data and configuration files to a new cloud host on Monday, November 23. RapidDeploy believes this move will reduce or eliminate the latency issue the evaluation team has experienced. This move will push the evaluation team's table top exercises back to mid-December. Michael also reminded the committee that RapidDeploy is being configured to support the ECCs and public safety agencies that are expected to be involved in responding to protests against the oil pipeline replacement construction in NW MN.

B. Winter Storm-Related Incident Coordination with State Patrol
Hieserich asked if "Winter Storm-Related" be deleted from this subject title. Martin agreed. The workgroup will continue to work on a recommended procedure for the metro area ECCs to coordinate incident responses with the State Patrol.

C. SECB Grant Proposals
Fredrick said the current SECB grant of $70,000 will be allotted to the Resiliency Training and the DPS Conference attendance next year. Tracy reported there will not be any additional funds available until next summer and suggested this item could come off of the agenda until new information becomes available.

Pass said she believed that the 2021 DPS conference will be cancelled.

D. System Outage Notifications
1. Outage Notification Process
Martin said the workgroup is making progress on the draft notification process. There have been discussions with Matthew Hoffer and Lumen on ECC expectations. The workgroup has been meeting weekly.

Pankonie asked if the Intrado notification test was mentioned. Martin said the Lumen notification is still sent to just one email. Martin said he thought the email is created by Matthew manually.

Matthew Hoffer reported to the committee that there is just one automated notification created by the Lumen system which is sent to one email for each ECC. Carl Klein, who manages the 911 Repair center, has been contacted regarding the feasibility of sending notifications to multiple emails.

Pankonie said the test from Intrado on Monday went out to multiple people and emails.

Hoffer said the FCC pays attention to the Lumen notifications and whether they meet the FCC's reporting requirements. He will follow up on how the Intrado system notifications are sent. He emphasized that the Lumen and the Intrado notification systems are not a single system, but are two separate unrelated systems.

E. Mental Health Call Processing Standard - no update

F. Telecommunicator Reclassification and Licensing Legislation
Pankonie said there was no action taken at the legislature during special sessions 6 and 7.

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6. Reports
A. PSAP Operations Round Table Work Group – No Update

B. SECB NG9-1-1 Committee Report
Pankonie said the November NG9-1-1 meeting discussions included the Telephone CPR compliance standard. The draft standard will be an agenda action item for the SECB at the December 3 meeting. When the standard is passed, the grant process can begin, though fiscal dollars-not grant funds will be used for the mandated telephone CPR training. The Telephone CPR workgroup is tabulating results as to the type of training wanted. The three vendors that will provide quotes for training are: Virtual Academy, PowerPhone and Priority Dispatch.

Pankonie said the questions from the NG9-1-1 Committee about the TCPR standard were submitted to the Attorney General's office. The standard can be revised should the AG office advise, but it is important to get the standard approved so ECC's can use the funds designated by the legislature for the costs associated with training their telecommunicators to comply with the law. Pankonie advised committee members to not purchase training until the state funding becomes available.

Pankonie said also discussed at the NG9-1-1 committee meeting was the Advanced Location Classes of Service that has been turned up in the metro, and how to do that across Greater Minnesota.

C. 9-1-1 Network Report
Eggimann said ECN has asked that the 9-1-1 Plan change process return to submitting change request letters directly to ECN. The MESB Board approved the committee's recommendation in support of the Ramsey Co. change request at their last meeting. Eggimann said he will submit a separate 9-1-1 Plan change request letter regarding the Ramsey Co. change as requested by ECN to keep the process moving.

Pankonie said she still felt the Change/Participation plans should be pursued at a committee level.

D. 9-1-1 Data Report
(written report in the packet)

7. Announcements
Pass said ASAP-to-PSAP went live in the Ramsey County ECC on October 19. There have been 451 incidents processed through the system since then.

Sprynczynatyk said Anoka will have ASAP-to-PSAP up for testing in the next couple of weeks.

Adjourn at 12:10.

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Meeting Date:	**December 17, 2020**
Agenda Item:	**4.A Workload Sharing Implementation Planning Workgroup Formation**
Presenter:	**Eggimann**

RECOMMENDATION
Request that the 9-1-1 Technical Operations Committee (TOC) ratify the workgroup members whose names have been submitted to the Chair and Vice-Chair for appointment to the workgroup.

BACKGROUND
At the November committee meeting, members were asked to submit names of people they would like to have participate on the workgroup to the Committee Chair and Vice-Chair so the committee members could ratify those appointments at the December committee meeting.

The workgroup is tasked with assisting the MESB staff in developing an implementation, participation, and funding plan for a regional CAD-to-CAD interoperability system, including support for regional situational awareness and tactical dispatch capabilities.

The plan must include, but is not limited to, recommendations on system capability requirements, a system governance structure, system ownership, system management, system maintenance/monitoring, data ownership, data access, cooperative agreements, funding sources, and cost sharing formulas.

ISSUES & CONCERNS
(none identified)

FINANCIAL IMPACT
(none identified)

MOTION BY:
SECONDED BY:
MOTION:

PASS/FAIL

Agenda Number 6.C.

1. Text-to-9-1-1:
Washington and Scott Co. are the only remaining primary PSAPs in the metro area that have not yet implemented text capabilities on their answering applications. Both PSAPs are planning to implement text messaging concurrent with their next 9-1-1 answering application upgrade later this year.

2.   Firewall Implementation:
The team working on the ESInet firewall implementation project is now focusing on turning up some of the greater MN PSAPs. It is not known at this time when the team will come back to the metro area. The MESB will pass on additional firewall implementation dates as they become available.

3.   Other PSAP Activity:
A 9-1-1 Plan change request letter has been submitted to ECN as work continues on the Ramsey Co. 9-1-1 VESTA answering application geo-diversity project involving moving one of the VESTA servers to their Arden Hills back-up PSAP site and adding more diversity and redundancy to the ESInet connections to the VESTA system. The project also addresses ESInet reliability concerns during wet weather and ground conditions with current copper facilities connecting to the St. Paul site. The project will also provide better COOP options for not only Ramsey Co., but also the neighboring metro PSAPs that do not have an identified back-up location.

Draft work has begun on initiating a 911 Plan change request to integrate the Scott Co. ECC to utilize the Motorola SaaS 9-1-1 answering application to replace their existing application. The MESB is waiting for Motorola pricing on the IP connectivity between the Scott Co. workstations and the Motorola SaaS host server sites in Woodbury and Willmar before I can complete the plan change request. Utilizing the Motorola connectivity between the ECC and the host server sites is an interim solution until a NENA-compliant ESInet design can be implemented within the metro area.

4.   NG9-1-1 ESInet:
A three-way contract between ECN, the MESB, and Inteliquent covering the 9-1-1 system ingress from the telecommunications service providers to the NG9-1-1 core services has been finalized. Implementation meetings have begun and will continue on a weekly basis as the project progresses.   Additional work remains for the MESB and ECN on the RFP(s) for NG9-1-1 core services and 9-1-1 system egress connectivity between the core services and the PSAP.

The existing 9-1-1 services contract with CenturyLink will be extended until November 2021. This is the third extension of that contract and the last one permitted under the State's purchasing guidelines. The NG9-1-1 core services and ESInet egress connectivity RFP work mentioned above are intended to replace the current 9-1-1 services contract. It is anticipated that there will be a transition period as services are moved from the existing 9-1-1 service system to the new NG9-1-1 core services.

The MESB is focusing on giving our PSAPs better continuity-of-operations (COOP) options as well as enabling workload sharing for the PSAPs that are interested in working together. We want to ensure that our ESInet infrastructure can support shared/hosted and cloud-based applications and not limit the use of the ESInet to just handling 9-1-1 traffic. We are working now with ECN to consider ESInet options that would rehome our PSAP ESInet connections to redundant, diverse datacenters that can become the hubs for delivery of shared/hosted and cloud-based applications to all the metro PSAPs such as CAD, CAD-to-CAD interoperability, logging, as well as 9-1-1 answering applications.

In April 2018, NENA published a new NG9-1-1 ESInet Design document that outlines new modifications to the existing ESInets in use today. The new design focuses on increasing reliability and resiliency by incorporating multiple network service providers using different network protocols (e.g. MPLS, Ethernet, cable broadband Internet, wireless carrier broadband Internet). The MESB will continue to work with ECN to develop an implementation strategy to bring the metro area ESInet configuration into compliance with the NENA design recommendations.

1. **Importance of GIS for 9-1-1:** PSAP managers are strongly encouraged to continue to assist their GIS counterparts in communicating to key decisionmakers and county leadership what a **vital role GIS has to their current and future PSAP operations**. Geospatial datasets provide foundational data for PSAP CAD/mapping systems and future NG9-1-1 core services, as well as support many other non-public safety uses that are important to cities and counties.

2. **Regional NG9-1-1 Data QA/QC and GIS-derived MSAG activity:**
   a. **NG9-1-1 QA/QC support** continues to focus on those PSAPs/Counties whose data is most ready to transition from a legacy to GIS-derived MSAG. The Ramsey County GIS-derived MSAG transition was completed in early December. This was a significant effort by everyone involved.
   b. **Current GIS-derived MSAG status:**
      i. **Complete**: Chisago County, Dakota County, Anoka County, Eden Prairie, St Louis Park, Edina, Bloomington, Ramsey County
      ii. **In preparation stage at MESB**: Isanti County
   c. MESB is **proactively auditing 9-1-1 call locations in the 10-county region.** Using a daily log of all live ALI retrieval activity at MESB PSAPs, 9-1-1 call locations are validated against the MSAG and metro regional road centerline and address point data. MESB then vets any issues identified and initiates remediation with the appropriate telecom provider, PSAP, and/or county GIS partner. This process is currently being run one day/week and has been helpful in focusing corrective action in communities with high volume or repeated 9-1-1 calls, as well as in new development areas. The process has also been helpful in gaining visibility to the locations of 9-1-1 calls being initiated over internet-based telecom providers whose customer addresses are not stored in the legacy ALI database. MESB may expand running the validations more frequently as resources allow.

3. **ECN NG9-1-1 Federal Grant work:**
   a. *Metro Regional GIS-derived MSAG Processes:* The contract with GeoComm has been executed for work related to regional GIS-derived MSAG creation and maintenance processes authorized under the NG9-1-1 federal grant. In general, the project will provide a regional NG9-1-1 data assessment through GeoComm's Data Hub and ongoing maintenance processes to keep the GIS-derived MSAGs in sync with source geospatial data. The project will also assist in creating GIS-derived MSAGs for the remaining metro PSAPs. MESB has an initial meeting with GeoComm on 12/11/20. The grant work will extend to March 2022.
   b. *Sherburne County:* Sherburne County has also procured GeoComm to perform their NG9-1-1 GIS data development work under the grant. MESB will work closely with Sherburne County staff on the project.

4. **Statewide GIS Data Standards:** On 12/9/20, the Minnesota Geospatial Advisory Council (GAC) met and approved proposed changes to the **GAC road centerline and address point schemas.** The changes include the addition of legacy street name elements, as defined per NENA, to both schemas, as well as the addition of a road cartographic class attribute. The metro region GIS partners, the Met Council, and MESB will work together to determine how best to accommodate the updates for future metro regional datasets.

5. **Regional GIS data support for Pandemic Response Planning/RapidDeploy Pilot:** Production go-live for the RapidDeploy pilot of a cloud-based regional CAD system was delayed to 2/22/21 to allow RapidDeploy to address bug fixes and latency issues that were identified during the region's testing and implementation work. RapidDeploy has now migrated their metro area solution to a

new Azure platform and anticipates completing their software changes in the December-early January timeframe. PSAPs are planning tabletop exercises for the project to start after 2/1/21. MESB and GeoComm are trialing the ongoing process to be used in a production environment for GeoComm's consumption of new versions of the geospatial datasets and subsequent update of the map, feature, and geocoding services used with the RapidDeploy CAD.

6. **Wireless callback number in ALI:** Lumen (Jake Jacobson) continues to coordinate the transition of all remaining PSAPs to have **wireless callback numbers moved to the traditional phone number fields** in the ALI format (as is done with wireline and VoIP). The change will avoid a conflict between the callback number and supplemental location information received as part of a wireless dispatchable location. Only a few PSAPs remain to be scheduled. Affected PSAPs with upcoming CPE upgrades should discuss with Jake whether their change will be made in advance of or at the time of new CPE cutover.

7. **Vertical location on wireless 9-1-1 calls:** Based on an FCC ruling, wireless carriers are required to provide **z-axis information from capable devices** starting in April 2021. Methods for delivering z-axis information to PSAPs, given current legacy system constraints, are being discussed with Lumen/Intrado. This will require the creation and use of a **new ALI format** at PSAPs and a cutover process like that used with the callback number location change currently underway. Per the FCC, the z-axis coordinate will be in height above ellipsoid. PSAPs will need a method, within their CAD/mapping system or by other means, to **transform ellipsoidal data into a practical elevation or floor reference**.

ONGOING ACTIVITIES
8. **Statewide NG9-1-1 GIS Project:** The SECB NG911 GIS workgroup, under the leadership of Geoff Maas, meets regularly to discuss the statewide NG911 GIS effort.

9. **Wireless Cell Sector/Routing Data:** MESB continues to process wireless routing updates for all carriers on behalf of the metro PSAPs. Should PSAPs want the routing for a specific cell sector or 9-1-1 call reviewed, just email ***mesbgis@mn-mesb.org*** and MESB staff will investigate.

10. **Regional GIS Data Aggregation:**
    a. **Road Centerline and Address Points:** The MetroGIS/Met Council continues to process regional road centerline and address point dataset updates nightly to the MN Geospatial Commons website. Each metro county's most recent centerline and address point data that has been uploaded to the portal and passed validations is included in the regional datasets. All ten metro counties are using this process. These datasets are in the MN GAC schemas.
    b. **Boundary Polygons:** MESB uploads the regional PSAP, ESZ, MSAG community, law, fire, and EMS boundary polygon layers to the Minnesota Geospatial Commons. The datasets are updated as boundaries change or at a minimum of quarterly. Mobile Positioning Center, Text Control Center, and VoIP Positioning Center vendors are directed to the Commons for downloads of metro's PSAP boundary polygons.

11. **Regional Data Viewer:** The datasets pertinent to regional 9-1-1 interests are available in the dataviewer developed by MetroGIS/Met Council. (Access link is: https://www.metrogis.org/projects/9-1-1-Data-Viewer.aspx.) PSAP MSAG coordinators are encouraged to use the dataviewer as a resource to reference the geospatial data their county GIS departments consider valid and current for regional 9-1-1 use.