Metropolitan Emergency Services Board
9-1-1 Technical Operations Committee
MESB Report
August 21, 2025, Meeting

> **Importance of GIS for 9-1-1:** PSAP managers are strongly encouraged to assist their GIS counterparts in helping key decisionmakers and county leadership understand the **vital role GIS has for current and future PSAP operations**. Geospatial datasets provide foundational data for PSAP CAD/mapping systems and NG9-1-1 core services, as well as many non-public safety use cases important to counties and cities.

1. **Monthly Regional NG9-1-1 Regional Data Maintenance & QA/QC Cadence:**
   The MESB region maintains a **monthly cycle of NG9-1-1 data provisioning and maintenance**. This includes county GIS dataset maintenance, regional GIS data aggregation and schema validation, regional validations for the NG9-1-1 use case, and ongoing GIS-derived MSAG maintenance.

2. **Regional 9-1-1 Data QA/QC:**
   a. MESB continues to **analyze the region's NG9-1-1 data errors** that are identified monthly through MESB's internal validation tools, GeoComm and 1Spatial platforms.
   b. MESB also validates each month's actual 9-1-1 call locations against regional GIS to identify missing or inaccurate GIS data.
   c. When needed, MESB reaches out to county GIS contacts to make recommended data remediations. If MSAG and/or ALI updates are needed, MESB will process the update requests on behalf of its PSAPs.
   d. From MESB's analysis of the **July** NG9-1-1 validation results, MESB made:
      i. **21 referrals** related to address validation to county GIS data producers for GIS data updates
      ii. **289 referrals** related to road centerlines to county GIS data producers
      iii. **6 referrals** for GIS updates resulting from VoIP 9-1-1 call location validation
      iv. **1** new ALI Telephone Number record change request (TN CR) for wireline location corrections
      v. **15** ALI Discrepancy Reports from VoIP 9-1-1 call location validation
      vi. **28 referrals** related to road centerlines were sent to county GIS contacts from the 1Spatial validation processes

3. **Metro Regional GIS-derived MSAG Maintenance**:
   a. **GIS-driven MSAG Maintenance Activity**: In **July**, MESB processed **102 GIS-derived MSAG updates** to keep the live MSAG in sync with authoritative GIS data.
   b. **GIS Drives MSAG Maintenance:** The monthly regional NG9-1-1 data provisioning/maintenance is the **primary method of maintaining the region's live MSAG**. Each month, MESB performs a comparison between the current live MSAG and the MSAG derived from the current month's refreshed GIS data. MESB then reviews/vets any needed MSAG updates prior to submitting them to Intrado on behalf of its PSAPs.
   c. **PSAP 911NET MSAG Change Request Activity:** Because of MESB's process, PSAPs no longer must carry primary MSAG maintenance responsibility through submitting 911NET MSAG CRs based on information obtained from cities or other sources. They may continue to do so at their discretion. MESB holds any PSAP submitted MSAG CRs until the updates appear in the county's GIS data.

4. **Wireless Call Routing:** MESB processes wireless routing updates for all carriers on behalf of metro area PSAPs.
    a. During **July** MESB processed:
        i. 11 sectors from AT&T Mobile
        ii. 0 sectors from Dish
        iii. 66 sectors from T-Mobile
        iv. 229 sectors from Verizon
    b. Should PSAPs want the routing of a specific 9-1-1 call reviewed, they can email MESBGIS@mn-mesb.org with the details. MESB staff will investigate or recommend the PSAP open a ticket with the carrier.

5. **SECB NG9-1-1 GIS Workgroup:** The GIS Workgroup continues to meet monthly to discuss topics of interest to statewide GIS stakeholders:
    a. ***Best practice on NG911 GIS Data Validation Match/Success Rate Guidelines:*** The document was published on the Minnesota NG9-1-1 GIS Hub website 7/8/25.
    b. ***Informational document on data schemas for NG9-1-1:*** The document is available for regional review through 8/20/25.
    c. ***Best practices resource materials development for edge-matching data:*** The document is available for regional review through 8/20/25.
    d. ***1Spatial Platform Migration:*** MnGeo plans to soft launch the new environment in September.

ONGOING ACTIVITIES

6. **Regional GIS Data Aggregation**:
    a. ***Road Centerline and Address Points:*** MetroGIS/Met Council processes 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. The regional road centerline and address point datasets comply with the current MN Geospatial Advisory Council (GAC) data standards.
        i. The most recent Edited Dates in the dataset as of 8/13/25:

County	Address Points	Road Centerlines
Anoka	6/30/2025	6/30/2025
Carver	7/1/2025	8/6/2025
Chisago	7/31/2025	7/31/2025
Dakota	7/25/2025	6/26/2025
Hennepin	8/5/2025	8/5/2025
Isanti	7/23/2025	7/24/2025
Ramsey	7/30/2025	8/4/2025
Scott	8/8/2025	8/6/2025
Sherburne	7/21/2025	7/21/2025
Washington	7/31/2025	8/1/2025

        ii. Note these are not Upload Dates, only the last date of a change to the data, red dates did not change from previous report.
    b. ***Boundary Polygons:*** MESB maintains the regional PSAP, ESZ, MSAG community, law, fire, and EMS boundary polygon layers in coordination with the PSAPs. At least quarterly, Mobile Positioning Center, Text Control Center, and VoIP Positioning Center vendors are directed to the MN Geospatial Commons for downloads of metro's PSAP boundary polygons. This includes the MN State Patrol PSAP boundaries in the MESB region for wireless call Location Based Routing (LBR), as well as routing of Text-to-911 messages.

7. **Regional Data Viewer**: PSAPs are encouraged to use the **new** Metro Regional Data Viewer developed by MetroGIS/Met Council to view the geospatial data county GIS departments consider valid and current for regional 9-1-1 use. This is the authoritative source of NG9-1-1 GIS data for the 10-county MESB region.
   a. The new Data Viewer uses an industry standard background application.
   b. **Any feedback** regarding this version of the Data Sources Viewer can be directed to MESBGIS@mn-mesb.org.

8. **GIS supporting RapidDeploy Radius ALI Mapping:** Every third Friday, MESB "refreshes" the metro GIS datasets used for ESRI map and geocoding services supporting RapidDeploy Radius mapping system used at many metro PSAPs.

9. **Integration with State NG9-1-1 GIS Activities:**
   a. All MESB regional NG9-1-1 required datasets are included in the **MN DPS NG9-1-1 enterprise database**, including: the metro regional supplier boundary, road centerlines, address points, and emergency service boundary polygons. At least quarterly the datasets are updated. The latest submissions to the enterprise database are:
      i. Address Points: 8/6/25
      ii. Road Centerlines: 8/8/25
      iii. Emergency Service Zones: 8/1/25
   b. **Metro Regional GIS datasets are shared publicly** on the MN Geospatial Commons under the MetroGIS and MESB organizations. In addition, the regional data is also included as **part of the MN Road Centerline and MN Address Point datasets (Opt-In Open Data Counties).**