

**MINUTES OF THE ARIZONA GEOGRAPHIC
INFORMATION COUNCIL 9-1-1 COMMITTEE**

A public meeting of the Arizona Geographic Information Council was convened on Thursday, April 4, 2019 at 10:00 am at the Arizona State Land Department, 1616 West Adams Street, Phoenix, AZ 85007 in room 215. Present at the meeting were the following members or designees of the AGIC 9-1-1 Committee:

Table 1: Committee Voting Members (16 people)

Member	Agency/Company	In Attendance
Sandra Dyre, Co-Chair	Michael Baker	Yes, in person
Brian Bond, Co-Chair	Yavapai County	Yes, in person
Celso Montes	Graham County	No, without notice
Eric Shreve	AZ DEMA	Yes, phone
Jack Avis	Pima County	No, without notice
James Meyer	AZ Dept of Transportation	Yes, phone
Jenna Levelle	AZ State Land Department	Yes, in person
Joe Breyer	GIS Works Consulting	Yes, phone
Leslie Stovall	Gila River Indian Community	Yes, phone
Bo Guo	GISTIC Inc.	Yes, phone
Patti Egleston	Pima County Sheriff's Department	No, with notice
Sarah Hess	Pinal County	Yes, in person
Robert Woodhull	Pinal County	Yes, phone
Steven Whitney	Pima County	Yes, phone
Steve Engle	Mohave County	Yes, phone
Tom Homan	Gila County	No, without notice

Table 2: Public at Large (9 people)

Name	Agency/Company
Russ Bowers	AZ State 911 Office
Scott Carey	Coconino County GIS
Helen Costello	Coconino County GIS
Greg Emmanuel	City of Cottonwood
Anna Haney	AZ Dept of Grants and Federal Resources
Laura Herrera	Pinal County Sheriff's Office
Thara Salamone	State Demographers Office, Arizona Office of Economic Opportunity
Toni Ketchum	Yavapai County Addressing/911

Name	Agency/Company
Jake Skinner	GIS Works Consulting

- I. Call to Order and Introductions: Meeting was called to order at 10:04 am
- II. Approval of Meeting Minutes from January 4, 2019 Brian Bond asked for any corrections, none were spoken. Brian Bond asked for a motion to approve the January 2019 meeting minutes. Motion to approved by Sarah Hess. Second by Sandy Dyre. Approved unanimously.
- III. Work Group Status (Brian Bond/Sarah Hess)
 - A. Data Sharing
 - i. Review of NOFA [AZ 911 OFFICE GRANTS NOTICE OF FUNDING AGREEMENT https://grants.az.gov/sites/default/files/media/AZ911_Grant_ProgramFY20NOFA.pdf] and NENA Memo of Understanding (MOU) templates [NENA Inter-Agency Agreements Model Recommendations Information Document https://dev.nena.org/higherlogic/ws/public/download/6846/NENA-INF-012.2-2015_InterAgency%20Agreements%20INF.pdf]. Discussed reason for MOU. A use of GIS before the call, the work flow of a dispatcher needing a consistent state-wide map. Starting to bring in new partners that we have not had to work closely before. Asked for anyone on the Committee members to join the data sharing work group to help with this work. If we can have a boiler plate template. Steve Whitney asked about if there can be a single template MOU. Anna Haney mentioned the NOFA MOU's is more for billing so that every PSAP will have one agency that pays all the bills. The reference for an MOU in this discussion was not clearly defined but the intent was to share the NENA documentation about MOU's.
 - ii. Data Request from AGIC. Will disuses this in more under the State-wide map.
 - iii. Dispatchers Education – Work group starting meeting bi-monthly. Requested information from 9-1-1 centers; no feedback from dispatch

- community.
 - a. Developed an outline and what content should be included in a FAQ.
 - b. Once document is completed, send it to a sampling of 9-1-1 centers for feedback before formalizing.
 - B. Requesting new volunteers to revise/update AZ_NG911_GIS_Guideline_Best Practices
 - a. **Volunteers needed to look at GIS Guidelines and best Practices [LINK TO CURRENT DOC https://grants.az.gov/sites/default/files/media/AZ_NG911_GIS_Guideline_Best%20Practices_v2.0_111717.pdf]**; pick a section to update by yourself and then submit back to the Data Sharing Work Group. Would like to have completed revisions before December 2019.
 - b. **Notify Sandy/Brian of volunteer status to review Guideline best practices document.**
- IV. State wide map update for DPS
 - o **State would like to collect GIS data as soon as possible, but no later than April 26, 2019**
 - B. Data assessment and reconciliation
 - o **Having a common boundary, statewide level, sharing data from each agency, edge-matching datasets, etc. Need to work together much more closely.**
 - o **(Sandy) History on how data requests and statewide maps were developed (for other means than emergency response). DPS/Pima County SO, other 9-1-1 needs need a cleaner dataset in the future.**
 - **Have a need of monthly GIS data updates versus the bi-annual that we've requested normally.**
 - **Other PSAP's may also use the Statewide map data for their system, which is for emergency response therefore the GIS data needs to be clean as possible now.**
 - o **Statewide data set will be posted on AZGEO and ask that each community review it for data clean-up. Brian and Sandy will remind everyone that the statewide data will be available for you to look for edge matching problems.**
 - o **Supports current and future NG911 needs.**
 - C. TSSW needs

- **(Brian) There will be a request for GIS data for the statewide update sometime in April 2019, street centerline, address points, incorporated community boundaries, parcels, MSAG Community boundaries, and ESN boundaries.**
- **(Steve) the work flow will work about the same as before;**
- **(Bo) EMap created for address points collaboration; may be expanded to support other datasets for this collaboration, edge matching support.**
- **(Brian) AzGIV, (Arizona Geospatial Intake and Validation) built to validate data and support data clean-up. We can provide a link to the application and a YouTube video about how to use AzGIV.**
- **AzGIV can only assess the data that is provided. You would have to aggregate datasets to review gaps/overlaps between counties. Statewide map can be uploaded and tested. There is not an agitation process built into AzGIV.**
- **(Joe) Spoke to Howard, provided the statewide centerline and will run through the ADOT processes for edge-matching; ADOT has the ticketing system [link to AZ GeoData Supply Chain Ticket System which you must be a member of the AZGeo group to view <https://azgeo.az.gov/AdotTicketManagement/>] to be able to comment on issues that works beyond boundaries. After statewide map is completed ADOT will have comments back to the end GIS users.**

V. NG911 geospatial routing synopsis (Brian Bond)

A. Introduction to committee's new role - furthering NG911 geospatial routing transitions

- i. **(Brian) Wanting to bring on for this committee is to further NG9-1-1 geospatial routing transition.**
- ii. **(Brian) Found that this is a GIS issue; 9-1-1 System and PSAP Managers cannot speak on GIS issues. Trying to bring those conversations to this committee; keeping everyone aware of what's going on and moving forward; Yuma County is the only deployment with spatial routing thus far.**
- iii. **(Anna) Submitted for the NG911 grant [FEDERAL**

911 GRANT WEBSITE LINK

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=307868>]; current plan by State 911 Office for allocating this grant money is to be able to share funding to underserved and unserved areas of the state into NG911; allow for supplemental application requesting funds who is in a NG911 platform to get their GIS to that capability. Yuma County is deployed, need to be get everyone to the same playing field.

(Brian/Anna) haven't been approved yet, preliminary allocation of \$2.3M. Once approved, we will share. Funds may be available by June 2019. Separate grant to systems who are requesting assistance, GIS services (internal/contractors, etc.) Federal money has an expiration date of 2021 (have to confirm); push at the national level to get NHTSA to extend the grant but it would take Congress to change the date. Communicate with your 9-1-1 System Admins if funding is needed.

- iv. (Sandy) Start with MapSAG (for those communities that have that available; there are other tools as well). We've focused on attribution checks but we learned from the Yuma project that the topology checks can be time and cost consuming. Run your assessment, speak to your 9-1-1 System Admins about what you need to accomplish data readiness for NG911. In AZ guidelines and best practices, we talked about attribution checks but Yuma County took the most time was the topology resolution to get point on polygon for spatial routing. As for going to your Administration to get commitment, we are working on our GIS for the future, but we are already making our data better for today so the return on our investment can be seen today with how we use GIS data in our current work flows holistically; return on investment can be done today. If you use MapSAG or topology checks in native GIS software. MapSAG is a duplication of EGDMS which is the ECRF which is the managed solution by West Services. If you assess your GIS data now it will help you know how much work you have; each MapSAG error amount can be used for NG911 grant submittal; (Anna) if you have information about how much work your NG911 data will take, send it now to the State 911 Office so we

can determine if we have a 1 million problem or a 7 million problem. (Sandy) if you need help with this assessment come back to this 911 Committee. (Brian) this role for this committee to furthering NG911 this topic is for everyone to be able to bring back concerns or questions about your GIS data to accomplish NG911 spatial routing. (Sandy) is there more for us to learn about NG911, yes, there is going to be more stuff (NG911) that we need to learn.

VI. Data Ecosystem (any members)

Below is the ADDRESS ecosystem diagram but a “DATA Ecosystem” would be broader. GIS is focused on data but we don’t want to forget the people and the Apps that have already been created.



- A. New data items – Anything new with existing systems
 - a. (Jim/Joe) Update from ADOT. Working over the next year on a routable network, (tracing) using the same E911 data. (Jim) Working on travel demand model as an option for routable networks. Joe/Bo/Howard are all talking to each other over the years. One source of data to answer questions, where GIS is rarely duplicated in building the necessary data. One source of data; no need for multiple geometries to accomplish possible different end goals by different users.
 - b. (Brian) reminder that EMap and AzGIV tools. For EMap, you must be logged into AZGEO first <https://gis.azgeo.az.gov/emap/#/?bdryGate=ADMINISTRATIVE&spatial=spatial&street=&dataRetrieve=on&legendFilter=original,modified,submitted,commented,deleted&refBdry=&cai=off&featureId=&textLabel=on&baseMap=arcgis¢erx=->

[12467309.61188¢ery=3956986.91443&resolution=633.6119333483998&mode=basic](https://www.linearbench.com/AZGIV)]. For training video on EMap, go to YouTube and search for "AZ-EMAP". [LINK TO AZGIV <https://www.linearbench.com/AZGIV>] [TRAINING YOUTUBE VIDEO FOR AZGIV https://www.youtube.com/watch?v=a_JROsWp6go]

- B. Concepts and major elements – reminder of the big picture
 - a. (Sandy) Question regarding demarcation layer and State County boundary to build a snap-to reference layer. (use of attribution within the demark layer) This is first step (County boundary/demark), next step is Provisioning boundary (which may not be county boundary) and the need to edge-match more granularly. Statewide edge matching can be dealt with from “demarcation” points. We want to avoid duplication. Learning about the demarcation points will germinate in meetings like these where people will learn about this whom may not have been as concerned about ADOT’s business processes before. ADOT wants to avoid building data that has to be maintained but would be better to create ways that data can be ‘processed’.
- C. AGIC 2019 Conference Planning – what are the knowledge gaps and what are the needs
 - a. Update for AGIC conference will get two 90 minute sessions some place in the middle of the conference; will not be at the same time; Not yet defined by AGIC conference committee as when each session will occur at conference.
 - b. (Sandy) What is that the knowledge gap is that you do not understand about NG911 that you need.
 - c. (Sarah) how to handle landline/wireless within geospatial routing.
 - i. Presentation on LDB and how it consumes landline/wireless and the impact to GIS. The LDB is a transitional solution for NG911. The LDB supports wireless call. Will ask presentation about how LDB handles wireless calls. The i3 network assumes all PSAP’s have the same number of all types of calls.
 - 1. What does that mean to my centerline, SSAP, etc. and the polygons that support call routing for wireless (service method is CELL which is legacy, service method of wireless will

be based on latitude/longitude from the wireless provider) that could change the GIS different from the Landline spatial routing process.

- d. Role of the ESB in NG911 and call routing**
- e. Recap on NG911**
- f. Provisioning Boundary / Service Boundaries**
- g. Reach out to Brian/Sandy about presentation needs you want to learn about.**
- h. (Jenna) Conference Oct 1 – 4. ½ day session. Before next meeting, 911 community needs to finalize what will be presented, have papers lined up to fill slots. Call for papers will go out any day, start preparing your presentations.**

VII. Call to the Public: None

VIII. Discussion for Topics of Future Committee Meetings: Provisioning Boundary extract from ALRIS county boundary discussion. Review work groups FAQ's or the AZ Guidelines and Best Practices Document revisions. Email Brian Bond and Sandy Dyre to volunteer. Next meeting is on Thursday July 25th, 2019.

IX. Adjourn: Adjourned at 11:34 am