

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

A Public meeting of the Arizona Geographic Information Council (AGIC) was convened on Thursday, July 28 at 10am WebEx only due to COVID-19 health precautions. Present at the meeting were the following members or designees of the AGIC Public Safety Committee

Table1: Committee Voting Members (16)

Member	Agency/Company	In Attendance
Eric Shreve, Co-chair	State 911 Office - ADOA	Yes, phone
Brian Bond, Co-chair	Yavapai County	Yes, phone
Bo Guo	GisTic	Yes, phone
Greg Denton	State 911 Office - ADOA	Yes, phone
Howard Ward	TerraSystems Southwest, Inc	Yes, phone
Jenna Leveille	State Land	Yes, phone
John Ehlen	FilmL.A.	No, with notice
Leslie Stovall	Gila River Indian Community	Yes, phone
Laura Herrera	Pinal County	No, with notice
Sandy Dyre	Michael Baker	Yes, phone
Sarah Hess	Pinal County	Yes, phone
Steven Engle	Mohave County	Yes, phone
Steven Whitney	Pima County	Yes, phone
Tom Homan	Gila County	Yes, phone
Brooke Serpa	Yavapai County GIS Department	Yes, phone

Table 2: Public at Large

Name	Agency/Company	In Attendance
Brandon Barnett	AZ State Land Department	Yes
Margo Neff	Coconino County	Yes
Shawna English	Graham County	Yes
Keira Nielson	Arizona Department of Public Safety	Yes
Thara Salamone	AZ Dept of Economic Opportunity	Yes
Morgana Laurie	AZDEMA	Yes
Ellie Dellard	Yavapai County	Yes
Nicole Eiden	ADHS	Yes
Sage Donaldson	ADOT	Yes
Teresa Villescaz	Gila River Indian Community	Yes
Dave Roby	DEMA	Yes

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

Paul Rosevear	AZDEMA	Yes
James Meyer		Yes
Bailey Hesson		Yes
Adam Fackler	NAPSG	Yes
Brian Brady		Yes

The Committee discussed and acted on the following items.

I. Call to Order and Introductions

Meeting was called to order at 10:02 AM. Introductions were made, and quorum was established.

II. Approval of Meeting Minutes from April 7, 2022

Approval was motioned by Sarah Hess and seconded by Tom Homan. No additional discussion on meeting minutes and they were passed unanimously.

III. Provide an overview of public safety committee goals and objectives

The overview started the clarification that there will not be voting taking place on the goals, but rather just an overview of the current ones. The completion of transitioning Next-Gen 9-1-1 across the state will require opening of the spectrum of what exactly work on. The first objective is to transition at least 50% of the PSAPs with the ability to geospatially route calls. The second goal is for the committee members to promote the integration of GIS in emergency preparedness and public safety activities thorough NENA, NEMA, IEAM, etc. This will provide a larger reach through the various networks the members are a part of to educate the community of the GIS integration. The third goal is for the data inoperability between multiple use businesses and systems. This is for utilizing GIS for more land events across the state (i.e., events such as the Super Bowl to track activity).

Jenna recognized the need to reword some of the goals to include the AGIC statutes as well as creating a clearer understanding of each goal. A suggestion for the third goal would be to include preparedness and public safety to support both events and express the concerns of the committee.

Brian was able to point out that these goals do have time for strategic changes for optimal effectiveness, as these are not set in stone.

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

IV. Search and Rescue Geospatial Initiative (NAPSG | Adam Fackler)

Adam Fackler is a GIS Specialist with the NAPSG (National Alliance for Public Safety in GIS) Foundation and presented on the Search and Rescue common operating platform that NAPSG in collaboration with FEMA developed. This was to share information and collaborate during large-scale incidents with the primary focus on search and rescue.

The NAPSG Foundation is a non-profit organization that focuses on developing GIS tools and enhance the use of GIS in public safety. There is a community of over 20,000 members across the globe that enjoy the training, tools, and best practices from NAPSG at no cost.

To view the National Alliance for Public Safety GIS (NAPSG) Foundation website visit:

<https://www.napsqfoundation.org/>

SARCOP (Search and Rescue Common Operating Platform) was developed to collect and share field observations for shared situational awareness and decision-making with regards to life safety, damage, hazards, and incident support. This was possible first through a partnership with the Department of Homeland Security: Science and Technology Division, as well as the Urban Search and Rescue teams across the country. During this partnership, gaps were discovered within communication and information sharing, which lead to the search for a solution, and eventually the application.

The Common Operating Platform utilizes a wide range of Esri products, all hosted through ArcOnline, to be able to support effective communication and information sharing. The effectiveness of this method is shown through the range of availability for all personnel, with it being supported on Windows, Apple, and Android products. Previously, many gaps were identified with large spaces in information, or inconsistent sharing of information through a multitude of devices. This only weighed on the need for developing an app, which now supports 28 FEMA SAR teams in addition to entire states that have agreed to utilize this system.

The first capability that was showcased would be the search segments that are used to assign the necessary resources in a wide search area. Utilizing existing census boundaries and GIS, SARCOP is able to effectively assign areas and perform on-the-fly analyses that save valuable time.

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

The operational analysis of this application allows for created segments to provide a consistent plan so responsibilities are understood and communicated efficiently and effectively. Impacted areas are also updated and more accurate in order to better facilitate the responses to events like natural disasters. This is expressed when maps are presented that show areas that were impacted by events that may not be directly in the incident area.

This application and methods attached can also facilitate the recovery from events, and not just exclusively in response. Since the data is stored in a cloud environment, the response team will be able to access all the data compiled to make the most accurate decisions when responding, instead of working blind or waiting for communication from other response and/or recovery teams.

The link for the hub page for this technology is:

<https://sargis.napsfoundation.org/>

The link for the sandbox environment is:

<https://experience.arcgis.com/experience/9051a07ffd1947bbb395e9f9b4088f85/>

This site has visuals and videos describing the methods and results behind the application, as well as the sandbox environment that is free and accessible to the public for training and reference.

For anyone wanting to get involved, this survey will start the process:

<https://survey123.arcgis.com/share/e7ffaf9005bc4da6b5acdd4d6f3a139c?portalUrl=https://www.arcgis.com>

Or you can reach out to Adam Fackler at:

afackler@publicsafetygis.org

Eric brought up the topic of being able to house the tool within the AZGeo Hub page, and if it were replicable for the users that utilize the Public Safety hub page. This topic was with the intention of being able to use this tool in more local space, rather than country wide. Adam confirmed that this app could be replicated but would remain housed on their system. This was followed up with the notion that partnerships with different entities are open to be able to use the tool within various groups.

Brian asked about the functionality of being able to create certain areas of interest, and Adam demonstrated that these areas could be created

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

using existing polygons for reference (like a census tract) or could be drawn free-handed.

V. Arizona 911 Office Update

A dashboard housed within the Public Safety hub page displays the progress and updates on the boundaries created for the PSAPs. Some delays that have been introduced to a couple of the PSAPs include circuitry issues, which can be attributed to different systems and ownerships that create a few setbacks. Improvement of the poor circuitry is under way and is generally seen in the less populated areas of Arizona.

4 PSAPs in NAUA are using full geospatial call routing, which is considered a big success and utilizes a lot of moving parts within those areas. There are current negotiations with the Frontier regions to produce a GIS-derived MSAG. This will act as the authoritative data source instead of relying on managing the tabular-based MTAG for call routing in that region. October is the current month for completion of a product for this, with a Centurylink or Lumen 911 systems starting in Q1 of 2023.

The 911 Office is utilizing the ALRIS boundary currently as the authoritative or provisioning boundary for change detection and geofencing. With this in mind, any boundaries that cross over or are created outside of the ALRIS boundary will be omitted when being used on the ArcGIS Online platform.

Conversations have been had with the Department of Public Safety on migrating their secondary PSAPs over into primary PSAPs. This will clip out the state routes, interstates, and highways to reflect what DPS's area of responsibility will be. This would, in turn, reduce the transfer time it takes moving calls from a primary PSAP to a secondary PSAP.

A partnership with RapidDeploy will allow for the integration of indoor mapping data that would show the various layers that make up a facility. Current hurdles that are being tackled include how the data is being rendered, but a finished product would allow querying different levels of a facility to determine where a call is coming from.

National 911 Program:

<https://www.911.gov/projects/gis-assessment-project/>

A. 1Spatial Project Update and Timeline

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

1Spatial is being seen used across the state following a phases approach of what they are trying to accomplish. Implementations of what will be included in the next several months is having the ability to see high level metrics that summarize data conformance over time. Compared to the current dashboard, it will not be as siloed and will show more specific data instead of just respective 911 data. To be able to see what different areas are doing to validate and aggregate data is a capability that is not within the capability of the app right now, which is being looked at and built, in order to aggregate data from the 1Spatial reporting.

Enhancements that will be seen in the next release, scheduled for the end of August, will include error exception handling, tool tips, and domain updates. The error exception handling will allow for submissions to go through. An example is if there is a certain post type that is not recognized as a NENA domain but is a legitimate way that the post is classified, you will be able to specify that in a separate field to clear the data that you are running through validation checks.

Tool tips are included as a UI perspective and are intended to be utilized in that manner. When you are going through the field mapping process you will be able to hover over different fields and be able to see a description of what that field is as well as if it is a mandatory, conditional, or optional field to have populated.

Updates that have gone through the NENA registry are being implemented into 1Spatial domain updates. Another validation aspect of zip coding is in the works as a future domain update but is not incorporated yet.

Integration with ADOT is actively being worked on; more specifically the road center lines. A meeting with Works Consulting and 1Spatial dev teams are scheduled to get an idea of how they integrated their updates for road center lines.

The infrastructure for AZGeo is currently utilizing ArcGIS Servers moving forward mid-October. The plan is to transition the server environment into ArcGIS Enterprise, which will utilize both portal and server. This will allow large data-set downloads, which will add more capabilities of the data-use.

- B. NG911 | NextGen Core Service Update**
 - 1. Direction and guidance from the State Office about authoritative boundaries**

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

This is an active process with concerns that have already been addressed and is being navigated.

2. Timeline for NG911 transition and expectations from the State 911 Office

The timeline for NG911 can be referenced at:

<https://az911.gov/next-gen-core-services-ngcs>

The National 911 program is working on a GIS Assessment Project that is looking at requirements that are more from a financial standpoint of what things the National 911 program needs to provide to stakeholders to be successful in their transition from 911 to NextGen 911. This is a partnership with mission critical partners, as well as various state and local stakeholders that is in draft review right now., with anticipation of the product to be available at the end of 2023.

Outreach for the workgroup for NENA Standards for Provisioning and Maintenance of GIS data to ECRF and LVFs was recently put out. They are looking for volunteers for updating the language and how the integration works for ECRFs and LVFs. The need ranges from government to private entities. Another document was released by NENA that includes the workflow and process for integration and access for GIS.

The APCO conference in Anaheim will be held from August 7-10 and is a very well attended conference from within the Arizona stakeholder community. APCO also released a document starting the conversations for having better interoperability of CAD data as it related to NextGen 911. This will give a better idea of how we standardize data and utilizes the thought process of building something once to use many times. There is a volunteer outreach currently for this, and those interested can look into this.

NSGIC and URISA partnered to create a Whitepaper that talks high level of why GIS is important and how it supports NextGen 911 as it relates to call routing. There is also partnership with the USDOT and their stakeholders, as well as a few states, that talks about the importance of NAD and how it supports the initiative that National 911 is doing. This is a Whitepaper that is in final draft but will be sent out once it becomes available.

Work group volunteers for ECRF and LVF:

<https://www.nena.org/page/ProvGISECRFLVF>

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

Additional volunteer link:

<https://www.nena.org/news/611761/Volunteer-to-Update-the-Standard-for-the-Provisioning-Maintenance-of-GIS-Data-to-ECRFs--LVFs.htm>

3D GIS Standards NENA document:

<https://www.nena.org/page/3D-GIS>

APCO Discussion for a Computer Aided Dispatch:

<https://psc.apcointl.org/2022/07/15/apco-seeks-working-group-members-to-create-a-new-candidate-standard-for-common-cad-public-safety-gis-identifiers/>

NSGIC Critical for Next Generation 9-1-1 white paper link:

https://drive.google.com/file/d/1JJ3p2KWet2oZHx38xyFhY3qxG_1W_MRH/view?usp=sharing

VI. AGIC Education and Training Symposium

A. Link to detailed agenda

<https://web.cvent.com/event/1f17206a-9ec8-4161-a0d0-1b9ba14292e2/websitePage:645d57e4-75eb-4769-b2c0-f201a0bfc6ce>

B. Mentions two NG9-1-1 Special Interest Group Sessions Monday in the Copper Basin Room at 1:30PM-3:00PM and again from 3:30PM-5:00PM

The AGIC Symposium will be at the end of August and will include some sessions of interest for those involved in the Public Safety Committee. At 1:30 PM on August 30 will be the Public Safety Special Interest Group Session, with the second session being at 3:30.

VII. Statewide Evacuation Boundary Status (DEMA | Morgana Laurie)

Utilizing the concept of the Public Safety Committee, AZDEMA was able to have a discussion with us about the importance of having a statewide evacuation polygon, specifically with the use cases of fires and floods.

The Arizona Evacuation Project is moving forward with a lot of feedback and interest since the last meeting where this project was introduced. The initial goals of the project will include zone creation, thinking about attributes that will make routing information easier in the future. DEMA and Yavapai county have been assisting in the beginning of this project in creating test zones for any oversight before the project progresses to production. Testing of these zones will include zone creation, workflow

**MINUTES OF THE
ARIZONA GEOGRAPHIC INFORMATION COUNCIL
PUBLIC SAFETY COMMITTEE**

modification, input formatting, and data structure and behavior. Anybody who is interested in helping and welcome to bring their experience to the project. The dataset will be hosted on AZGeo for ease of access and collaboration, with additional information being presented at the AGIC Symposium at the end of August.

A motion to create the Evacuation Workgroup under the Public Safety Committee was created. Howard Ward motioned, Brooke Serpa seconded. The motion was passed unanimously with no further discussion.

Link to the Arizona Evacuations Project StoryMap:

<https://storymaps.arcgis.com/stories/49ca59eb65114af4b3ab9583ba4e1df5>

If you have any questions, feel free to reach out to Morgana Laurie at:

Morgana.laurie@azdema.gov

VIII. Call to the Public

There was a question about the availability of the links shared within the meeting, which will be included in these minutes. No further comments were made.

IX. Discussion for Topics of Future Committee Meetings

No topics presented for future meetings.

X. Adjourn

Meeting adjourned at 11:32 AM

Upcoming 2021 Meeting Dates (Quarterly):

- January 13
- April 7
- July 28
- October 6