



Implementation and Data Services in Support of Arizona's NG9-1-1 Build-out


Case Study: The State of Arizona


“This is a very exciting effort for us as we are collaborating with not just the ADOA but also with its 9-1-1 Agency Partners, the State’s GIO in the Department of Lands as well as with our long-standing customer (actually 2nd here in the US) the Arizona DOT. In fact, 1Spatial’s 1Data Gateway product, which will also be utilized in this project to support DOT’s Data Supply Chain, was actually developed by 1Spatial based on a custom effort the DOT had developed several years back, making this a collaboration in more ways than one!”

- 1Spatial Inc. CEO, Sheila Steffenson

 **Industry** Government

 **Customer** The State of Arizona

 **Challenge** Implementation of a statewide emergency management system through aggregation of geospatial data layers from numerous local government entities to support Next Generation 9-1-1 (NG9-1-1) requirements for geospatial based call routing.

 **Solution** Public Safety NG9-1-1 Enterprise Solution that establishes an automated NG9-1-1 workflow for data validation and integration to support the state-wide build-out.

Key Benefits:

- Enables the State to provide the locals with a user-friendly portal for data validation which produces a geospatial report identifying the issues and their exact location. The local entity can then download the report and bring it into their system of choice for data cleanup, making the process much easier and more efficient.
- Provides the State with a dashboard to monitor how the locals are progressing over time (e.g. to show if their data is improving or declining) so the State can further support those who are struggling. The State can also see if particular validation rules are causing the majority of user issues, enabling the State to provide further guidance/ education on those particular requirements.

The State of Arizona

The State of Arizona is working with 1Spatial to begin migrating from Enhanced 9-1-1 to NextGen 9-1-1 (NG9-1-1) to improve the infrastructure and processes that support the 9-1-1 efforts. Accurate geospatial data will be essential to ensure calls are routed to the correct Public Safety Answering Points (PSAPs), which will require statewide data validation and integration to be successful.

Challenge

Throughout the country, state 9-1-1 programs are in the midst of or are beginning the process of transitioning to NG9-1-1.

To successfully implement geospatial call routing, it takes significant coordination with local data providers to aggregate the National Emergency Number Association (NENA) required datasets which consist of Address Points, Road Centerlines, PSAP Boundaries, Emergency Service Boundaries (Law Enforcement, Fire and Emergency Medical Services) and related Provisioning Boundaries.

NENA has released and continues to author new standards for geospatial data supporting NG9-1-1. Arizona will use these standards as a statewide baseline and provision the data into the State's Next Generation Core Services (NGCS).



Solution

1Spatial will provide implementation and training services for 1Integrate and 1Data Gateway in support of Arizona's NG9-1-1 buildout. The tools will provide validation of the data maintained by the State based on NENA's NG9-1-1 schema requirements for attribute accuracy and completeness as well as to ensure the data meets the NG9-1-1 geospatial requirements. The automated validation process will not only serve the needs of the State, but will also support the State's 9-1-1 Agency Partners.

This will provide an easy-to-use portal for them to validate their data and receive spatial reports back immediately following validation. This will help pinpoint where the data appears to violate the NENA requirements in order to drive agency partners to the specific location and rule violation to make the clean-up process much easier and much more efficient.

Further, as the licenses are enterprise-wide and available for use by other State agencies, the project will also support use-cases for the Arizona Department of Lands (National Address Database & Statewide Locator) and the Arizona Department of Transportation (All Roads Linear Referenced Data).



Watch the
Solution
Overview



Benefits

The Arizona 9-1-1 Program is administered by the Arizona Department of Administration (ADOA) which has oversight to the implementation of 9-1-1 across the State's fifteen (15) 9-1-1 systems that consist of 81 PSAPs.

The program provides guidance that relates to operational and technical requirements as Arizona begins to transition towards NG9-1-1. The program also provides recommendations and opportunities for funding to support GIS incentives.

Future

NENA has released and continues to author new standards for geospatial data supporting NG9-1-1. 1Spatial is monitoring such changes to ensure their NG9-1-1 rules pack is up to date with any new confirmed requirements. Arizona will use these standards as a statewide baseline and provision the data into the State's Next Generation Core Services (NGCS).

We continue to work with the DOT on data integration challenges related to Right-Of-Way AutoCAD drawings. We plan on helping Arizona Department of Public Lands on implementing a similar workflow to deal with Parcel layers.

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the code to book a
demo

<https://go.1spatial.com/ng911-demo>

