



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

Case Study: The State of Minnesota

*“We could not have accomplished this without the support of 1Spatial.”*

– Sandi Stroud, 9-1-1 Program Manager, State of Minnesota

## Industry

Government

## Customer

The State of Minnesota

## 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 Minnesota

The State of Minnesota has contracted with 1Spatial to implement their public safety data supply chain workflow leveraging 1Spatial's Public Safety NG9-1-1 Enterprise Solution, which incorporates 1Integrate and 1Data Gateway, as a validation engine and data aggregator for their NG9-1-1 data readiness work. NG9-1-1 enhances a call center's ability to more accurately route calls and emergency responders, receive actionable intelligence and location data in real time, expand communication and back up support, and improve system resiliency.

### Challenge

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. Minnesota will use these standards as a statewide baseline and provision the data into the State's Next Generation Core Services (NGCS).



### Solution

1Spatial is providing implementation and training services for 1Integrate and 1Data Gateway in support of Minnesota's NG9-1-1 buildout.

The solution will provide tools to validate data maintained by the State based on the NENA Standard for NG9-1-1 GIS Data Model requirements, along with other NG9-1-1 geospatial recommendations..

The automated validation process will not only serve the needs of the State, but will also support the State's agency partners by providing 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.



Watch the  
Solution  
Overview



### Benefits

1Spatial's Public Safety NG9-1-1 Enterprise Solution provides a user-friendly data validation portal that enables state and local agencies to assess their data's readiness for NG9-1-1 and downloadable reports that assist in the correction of any non-conformances. The reports are provided back in the same format as the input data, so the submitter can easily bring the report into their system of choice and review the precise locations of data issues, making clean-up much more efficient, saving time and money.

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. Minnesota will use these standards as a state-wide baseline and provision the data into the State's Next Generation Core Services (NGCS).

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