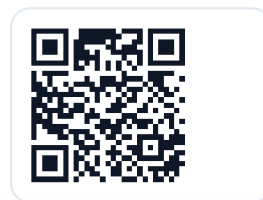


PUBLIC SAFETY • STATE OF MONTANA

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

Ready to Modernize Your NG9-1-1 Data?

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## CASE STUDY • THE STATE OF MONTANA

### ABOUT THE ORGANIZATION

For more than four decades, the Montana State Library (MSL) has provided authoritative geospatial data to its constituents and, since early in the millennia, has been the coordinating body for geographic information systems in the State of Montana, maintaining the government's spatial data infrastructure. MSL was looking for a solution that empowered local governments and PSAPs to manage their data autonomously.

With a state legislature that understood the importance and value of a strong 9-1-1 data foundation, the Montana State Library sought to provide the State's PSAPs across 53 counties with a tool that would allow them to govern and validate their data independently. This goal resulted in a rigorous Request for Proposal process that led them to select 1Spatial as their partner for NG9-1-1 implementation.

The Montana State Library deserves credit for fostering a strong culture of collaboration within the State. They hosted an exemplary training program for stakeholders from all 53 PSAPs, and maintain a dedicated GIS professional to ensure the success of their PSAP partners — recognising that, although location data is a natural fit for 9-1-1, new technologies can be bottlenecked by a lack of focused support.

<b>CUSTOMER</b> <b>The State of Montana</b>	<b>INDUSTRY</b> <b>Government – Public Safety</b>
<b>CHALLENGE</b> Stand up a statewide NG9-1-1 infrastructure by aggregating geospatial layers from 53 county PSAPs to support geospatial call routing.	<b>SOLUTION</b> 1Spatial Public Safety NG9-1-1 Enterprise Solution — an automated workflow for data validation and integration supporting the statewide build-out.

## THE CHALLENGE

Upon recognising the need for a modern NG9-1-1 infrastructure, the state legislature funded the Montana State Library to administer the Next Generation Core Services (NGCS) program for the coming decade. While a strong culture of data sharing already existed, the MSL needed a digital infrastructure to smoothly facilitate this process while providing counties and PSAPs with the tools to be efficiently self-sufficient in validating their datasets.

In September 2021, the Montana State Library published a Request for Proposals, to which 1Spatial submitted its Public Safety NG9-1-1 Enterprise Solution for consideration. Implementing geospatial 9-1-1 call routing requires significant coordination with local data providers to aggregate the NENA-required datasets across all 53 county jurisdictions.

### NENA-REQUIRED DATASETS

- Address Points
- Road Centerlines
- Emergency Service Boundaries
- PSAP Boundaries
- Provisioning Boundaries

## THE SOLUTION

To serve the State of Montana's data readiness assessment needs for deploying NG9-1-1, MSL implemented the 1Integrate Rules Engine and the 1Data Gateway portal, supported by 1Spatial's preconfigured NG9-1-1 Public Safety Rules Set. The toolset produces a spatial report of any anomalies against NENA standards, which is then packaged and delivered back to the data provider. To facilitate uptake of the 1Data Gateway validation portal by counties and PSAPs, 1Spatial and Montana State Library hosted training sessions to educate users across all 53 jurisdictions.

### BUILT ON

- 1Integrate Rules Engine
- 1Data Gateway
- NG9-1-1 Public Safety Rules Set

## ADVANTAGES OF THE SOLUTION

The solution enabled counties and PSAPs to operate independently while automating submission of their data once it met the standards set by the State. Data providers can drag and drop data into the validation portal and receive reports pinpointing exactly where NENA standards have non-conforming issues — down to the exact location of each non-conforming feature. This eliminates the need for technicians to manually scroll through datasets looking for geometry or attribution errors, saving significant time and effort.

## KEY BENEFITS

- 1 A user-friendly validation portal for local jurisdictions.** The portal produces a geospatial report identifying issues and their exact location. Local entities can download the report and bring it into their system of choice for data cleanup — far easier and more efficient than manual review.
- 2 A statewide progress dashboard.** The State can monitor how each of its 53 county PSAPs progresses over time and support those who are struggling. It can also identify if particular validation rules are causing the majority of user issues, enabling targeted guidance and education.
- 3 Objective, consistent evaluation.** Every submission is assessed against the same standardised rules, ensuring there is no subjectivity in how uploaded datasets are evaluated — and delivering equitable, reproducible outcomes across all jurisdictions.

## LOOKING AHEAD

NENA continually updates its geospatial data standards for NG9-1-1, and 1Spatial is closely monitoring these changes to ensure its rules pack remains current. Montana will use these standards as a statewide baseline for provisioning data into the State's NGCS. 1Spatial and MSL are also exploring pilot projects to support similar validation workflows for other State agency initiatives.

### Interested in Learning More?

Book a demo to see the Public Safety NG9-1-1 Enterprise Solution in action.

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[communications-us@1spatial.com](mailto:communications-us@1spatial.com)  
[go.1spatial.com/ng911-demo](https://go.1spatial.com/ng911-demo)



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