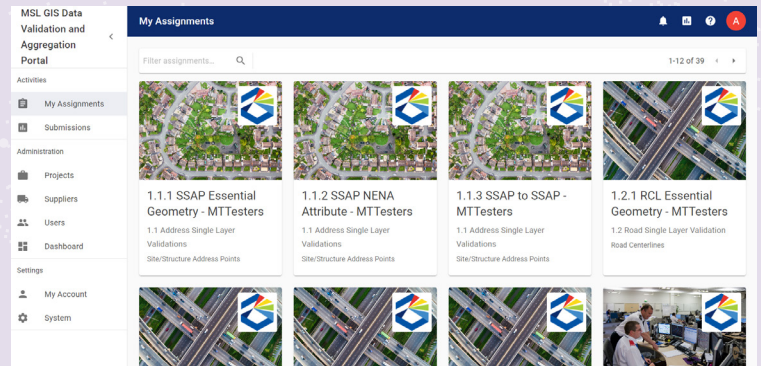
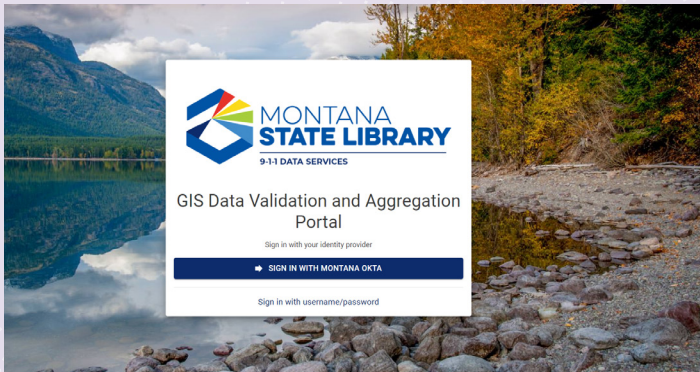




Implementation and Data Services in Support of Montana's NG9-1-1 Build-out

Case Study: The State of Montana



Industry Government

Customer The State of Montana

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 1Spatial 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 Montana

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. This goal resulted in a rigorous Request for Proposal process that led them to select 1Spatial to partner with, facilitating their NG9-1-1 selection.

With a state legislature that understood the importance and value of a strong 9-1-1 data foundation, the Montana State Library was looking to provide the State's PSAPs in 53 counties, which are the source of the most accurate, on-the-ground knowledge, with a tool that would allow them to govern and validate their data independently.

The Montana State Library deserves credit for fostering a strong culture of collaboration within the State that has been highly valuable in successfully implementing 1Spatial's technologies. This past year, they have hosted an exemplary training program for their stakeholders from the State's 53 Public Safety Answering Points (PSAPs). The Montana State Library's team also has a GIS professional dedicated to ensuring the success of their PSAP partners since, although location data is a natural fit into the world of 9-1-1, utilizing new technologies can frequently be bottlenecked by a lack of focused support.

Challenge

Upon recognizing 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. Although there was a strong culture of data sharing, the MSL was looking for a digital infrastructure to smoothly facilitate this process while providing counties and PSAPs 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.

Solution

To serve the State of Montana's data readiness assessment needs for deploying NG9-1-1, they implemented the 1Integrate Rules Engine and the 1Data Gateway portal supported by 1Spatial's preconfigured NG9-1-1 Public Safety Rules Set. This toolset produces a spatial report of any anomalies to the NENA

standards, which is then packaged and deliver the results 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.

Advantages of the Solution

Our solution allowed counties and PSAPs to have the tools to independently operate while automating submittal of their data once it met the standards set by the State. The ability for data providers to drag and drop data into the validation portal and receive reports back pinpointing exactly where the NENA standard has any non-conforming issues but also pinpoints the exact locations of the nonconforming features, enables more efficient cleanup of the data. Now technicians no longer have to manually scroll through data sets looking for where there are geometry or attribution errors, saving significant time.



Watch the
Solution
Overview



Benefits

The State of Montana benefitted from using 1Spatial's Public Safety NG9-1-1 Enterprise Solution because they had the confidence that there was no subjectivity in how each dataset that was uploaded was being evaluated.

Future

NENA continually updates its geospatial data standards for supporting NG9-1-1, and 1Spatial is closely monitoring these changes to ensure that its NG9-1-1 rules pack remains up to date with the latest confirmed requirements. Montana will use these standards as a statewide baseline and provision the data into the State's Next Generation Core Services (NGCS). Additionally, 1Spatial and MSL are looking at pilot projects to support similar data supply chain ingestion and validation workflows to support other agency initiatives.

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