GIO
GEORGIA GEOSPATIAL INFORMATION OFFICE

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

Case Study: Georgia NG9-1-1

"Wise Use of Tax Dollars: Build it Once, Use it Many Ways. Map-based data is a critical component of most all government functions, not just 9-1-1. Coordinating it's development through the GIO ensures every tax dollar spent will enable countless other state priorities (like supporting small businesses, expanding broadband, reducing gang violence, expanding public/private partnerships) and thousands of other governmental functions."

- State of Georgia

Industry	Government
Customer	The State of Georgia
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.

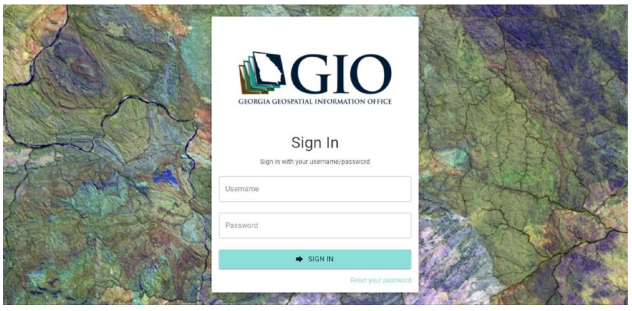
The State of Georgia

Georgia is utilizing 1Spatial's Public Safety NG9-1-1 Enterprise Solution, which incorporates 1Integrate and 1Data Gateway, as a validation engine and data aggregator for the NG9-1-1 data readiness work. The following information describes the effort in the State's own words, extracted from a document built by the State to educate interested parties. 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. These enhancemets are possible because NG9-1-1 leverages two key resources—an Emergency Services Internet (ESInet) and Map-based Data (Data).

Challenge

In the past, demands on local data did not mean life or death. With NG9-1-1, that is changing! Neither the state nor local governments have the data or processes needed:

- Some data is missing entirely, most is incomplete
- Existing data was not built to a common standard, making it impossible to merge with other data
- Lack of efficient maintenance processes so data is often out-of-date
- No shared/common data validation tools
- Little coordination between jurisdictions resulting in inconsistency along shared borders
- Resource scarcity



Solution

The Georgia Geospatial Information Office is implementing 1Spatial's Public Safety NG9-1-1 Enterprise Solution for all state and local governments (including contractors), which provides the following benefits:

- Clearly demarcates gaps, overlaps, and incomplete data
- Converts local data to the Georgia Geospatial Data Standard for NG9-1-1 (Standard)
- Precisely pinpoints problems/errors, within and between jurisdictions
- Consistently measures progress over time as improvements are made
- Provides a secure warehouse for all data to live and be served to the ESInet
- Provides a common platform for efficient data rollups, from Georgia's 700+ cities and counties, to a state scale
- Enable continuous, secure, and consistent updates, realizing significant economies of scale

Watch the Solution Overview

Benefits

The 1Spatial implementation tells the contributor how prepared their data is to enable NG9-1-1 locally—and if problems are found, it will report which exact 9-1-1 rules are being broken—saving local staff hundreds of hours of laborious work, combing through millions of map-based data features.

The implementation follows a 5 step process including:

1. ***SUBMIT***: Upload the contributor data to the tools 'as-is' and in its native format for conversion to GA NG9-1-1 Standard.
2. ***VALIDATE***: The tools run the data through automated tests, each designed to ensure compliance with the required rules of NG9-1-1.
3. ***REPORT***: The tools generate a Spatial Report identifying potential problems with the data which can then be downloaded by the contributor in GA Standard Format.
4. ***EDIT***: Using the Report within their GIS system of choice, the contributor then reviews the areas in the data that need to be fixed or changed.
5. ***RESUBMIT***: Continue to resubmit your data after each round of edits, until the data is 'NG9-1-1 ready'.

After the process is complete, data is then available for use by all stakeholders.

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