SEWALL
JAMES W. SEWALL COMPANY / *Since 1880*

Experience in the Field

Georgia Public Safety Department
Atlanta, Georgia

PHASE II WIRELESS DISPATCH IMPLEMENTATION

As a subcontractor to Northrop Grumman, James W. Sewall Company is assisting the City of Atlanta, Georgia, in developing and integrating a geobase file with street centerline address ranges and point of location addresses for over 400,000 structures within the City limits. Now installed on the City's PSSI GeoServer computer-aided dispatch (CAD) system, the data provides accurate *x, y* coordinate and nearest address information for distress calls made from new GPS-equipped and traditional cellular and land line telephones.

Using this data and data developed to represent districts of response coverage, dispatchers are able to query the address information and dispatch units to the emergency location. Onboard AVL systems report location and status data back to the dispatcher and visually aid the first responders in identifying the point of service for the call.

Following a pilot to assure that the established production procedures met project specifications, Sewall initially validated newly captured centerlines, address ranges, and street names from a geospatially oriented dataset (geobase) against an existing tabular-based CAD file containing street names and ranges. This exercise confirmed that the reliable, but nonspatial information in the CAD database was represented accurately in the newly created geobase.

Sewall then performed tasks to develop another level of GeoBase quality control, assuring that the address range information in the CAD dataset was represented in the geobase. Sewall identified and corrected address parity issues, missing or duplicated street segments, as well as street naming and alias problems. After completion of this task, the geobase was in sync with the CAD database and implemented as part of the new PSSI Geoserver roll-out.

Point address information consistent with the Phase II requirement was then added to the geobase data. Sewall production technicians used a variety of existing source documents, such as planning maps and tax assessor records, the ALI database, utility records, orthophotographs, and a newly created master address file to locate the structures within the City limits. The City now has a comprehensive centerline file with point addresses for City structures accurate to within 1 meter of their location. This level of accuracy allows emergency vehicles to target quickly and precisely the location of emergency situations, which is particularly important when 911 calls originate from cellular telephones.

PROJECT PROFILE

Services
Phase II Wireless Dispatch Implementation

Client
Georgia Public Safety Department, City of Atlanta

Size
400,000+ building structures

Sewall is presently designing an approach for the capture and validation of multiple dwelling units (MDUs), within structures such as strip malls, townhouses, and condo associations. In addition, Sewall is working with Northrop Grumman and City officials to develop a plan that integrates the maintenance of the address information into the existing City address assignment/change workflow.

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