

Regional Road Centerline Data Consolidation

Washoe County has historically administered GIS-related road network and address point data layers that are used by a variety of internal and external customers as part of their proprietary navigational systems and applications. One major customer is the county's E911 dispatch system. Two other customers, Reno and Sparks, use copies of these data to support their respective internal enterprise requirements. Oftentimes, updated information is added to the data Washoe County maintains, and then Reno and Sparks perform the same updates on their copies.

Too much redundant editing and not always being on the same page with regards to what types of new information was being captured and catalogued, compelled the county to lead a collaborative effort with Reno and Sparks to consolidate address and road network updates from three databases to a centralized county Regional E911 GIS database accessible to data editors using a versioned editing approach. A versioned database model provides an environment that gives each entity the ability to update a local copy of the master database, then publishing those updates to the master database as needed. The Regional E911 GIS database includes data schemas addressing the internal needs of the three participating entities.

The Regional E911GIS database will be the source of directional and location data that will be used by the county's Tiburon computer-aided E911 dispatch system, which is also used by Reno and Sparks. In addition, E911 GIS data will be uploaded to the Maverick Location Verification Service devices installed in county and Reno and Sparks safety personnel fleet vehicles. Ultimately, this data editing collaboration will ensure all regional public safety agencies receive timely and accurate road network and address updates while enabling the agencies to utilize shared data that will ensure local public safety personnel get to where they need to be even if they cross over agency boundaries.