Abstract

Topologically Aware Street Centerline Maintenance Using ArcGIS 8.3
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The topology model introduced in ArcGIS 8.3 provides new abilities to maintain geocoding-enabled street centerline data. The Phoenix Fire Department (PFD) maintains street centerlines used for emergency dispatch across Maricopa County, Arizona, and has recently implemented a new ArcObjects software-based editing system to take advantage of these abilities. Developed for the PFD by Contact One, this system enables shared editing of the street data with polygon layers, dynamic data import/update, and error correction and tracking. This paper describes this system, focusing on how it makes new functionality available that was not feasible before the advent of 8.3.

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