Save Time and Fuel with ArcLogistics 9.3

Generate sophisticated routes for efficient fleet management

Users can perform more powerful and realistic routing with ArcLogistics 9.3. This new solution product, built on the ArcGIS platform, allows users to spatially manage and optimize fleet operations to save fuel, reduce emissions, and improve driver accountability.

ArcLogistics 9.3 builds on the legacy of ArcLogistics Route, a product developed in the late 1990s that helped users achieve operational cost savings of 15 to 20 percent. This tool was designed for non-GIS professionals and allowed them to quickly create optimum routes and schedules that incorporated business rules and the driving attributes of real street networks. The new version of ArcLogistics maintains this ease of use while adding new advantages that will make it a valuable analytical tool for GIS professionals.

With ArcLogistics 9.3, users can more rapidly create routes and schedules that adhere to business rules while acknowledging vehicle capacities and driver specialties. With ArcLogistics, users can provide customers with strict time windows and increase their operating efficiencies by assigning orders to vehicles based on optimal stop sequences using actual street network drive times instead of measuring distance and ordering stops "as the crow flies."

ArcLogistics is built on ArcGIS Engine. Routing projects are now stored in a file geodatabase that holds many datasets, each dataset up to a terabyte in size. ArcLogistics consumes the vehicle routing problem (VRP) solver

in ArcGIS Network Analyst to solve routing problems and can incorporate network datasets and GIS layers or highquality commercially available street data. If a network dataset used, attributes is and functionality for restrictions, impedances, barriers, and speed management can be included in routes. Optimized routes and schedules help fleets meet commitments while using less fuel and producing fewer emissions.

ArcLogistics Navigator

With the addition of ArcLogistics Navigator, ArcLogistics is a fully integrated solution for route planning and navigation guidance. ArcLogistics Navigator helps drivers avoid missed turns and automatically reroutes to optimized routes if vehicles go off course. ArcLogistics Navigator, ESRI's new in-vehicle navigation solution specifically designed for trucking, fleets, and logistics, gives audible turn-by-turn directions and

constantly updates the vehicle's location on the on-screen map, preventing late arrivals and/or lost drivers.

Previously, route planners and dispatchers created routes with ArcLogistics desktop that efficiently ordered stops, but there

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was no guarantee that drivers would actually be able to follow the prescribed streets to each stop. As long as a driver was able to follow the stop sequence, but not necessarily the actual roads leading to each stop, the savings greatly outweighed the loss in efficiently following the prescribed streets.

However, today's economic pressures demand increased efficiency.

Organizations can realize an additional 10 to 15 percent in savings by helping drivers and the mobile workforce follow not only the prescribed stop sequence but also the exact streets identified in the route and get back on course quickly if they get lost.

With ArcLogistics desktop and ArcLogistics Navigator, fleet managers can provide drivers with barrier information, such as road closures,

construction, or traffic incidents, as well as which roads should be used in

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route calculations based on the kind of road or vehicle type and size.

With ArcLogistics Navigator, route planners and dispatchers can equip their fleets with door-to-door driving directions while honoring logistics-specific road attributes that reflect their individual business operations. Routes created in ArcLogistics desktop are easily pushed to devices running ArcLogistics Navigator.

ArcLogistics 9.3 integrates easily with other ESRI products. Free plug-ins to the application are available to export routing results as a Network Analyst layer for use in ArcGIS and ArcGIS Network Analyst, making ArcLogistics a great operational tool as well as a data collection point for larger, enterprise GIS efforts and analysis. To learn more about ArcLogistics, view a free Web training seminar, *Getting Started with ArcLogistics 9.3*, or visit www.esri.com/ arclogistics.

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ArcLogistics is built on ArcGIS Engine. Routing projects are stored in a file geodatabase that provides scalability and fast performance.

Illustration by Marina Murad, ESRI