



[] [] [] [] [] [] [] []

Industry Research

Logged in as [gwietholter](#) > [Edit Account](#)



Looking for Armored Service?



Software and the armored car industry Part 3

This is the third-part of a four-part series outlining the software solutions that are available for the armored car industry.

ESRI

ESRI was founded as Environmental Systems Research Institute in 1969 as a privately held consulting firm that specialized in land use analysis projects. Originally located in a historical home among orange groves, the worldwide headquarters of ESRI are now anchored in a multicampus environment in Redlands, California. Today, ESRI employs more than 2,700 staff, more than 1,400 of whom are based in Redlands, California, at the world headquarters.

ArcLogistics Route

ArcLogistics Route is a product by ESRI that optimizes routes based upon commitments to individual clients. Its designed to be either a stand alone end user application or a thin client multi-user application. In the armored industry it is typically used to determine which vehicle should serve each customer location and the best stop sequence to accommodate your customers' time windows while minimizing your travel time. Your particular service area can be selected from the included street database of the United States.

ArcLogistics Route builds routes based on actual network drive times --not straight-line distances; vehicle characteristics such as start and end locations, renewal points for reloading or unloading, capacity restrictions, and specialty of vehicle or driver; and characteristics of customer orders such as volume and weight of item, service time, requested time window, and order specialty. ArcLogistics Route also allows a second time window option for services, a grace period, and second-day routing. After solving your routing problem, ArcLogistics Route will export routes and schedules back to your database. Also, you can view and print detailed maps along with turn-by-turn driving directions.

You can tailor ArcLogistics Route to your organization's needs with driver/vehicle specialties, operating costs, and custom reports. The GDT Dynamap/Transportation Street Database that is included with ArcLogistics Route may be refreshed semiannually or annually. You can also connect to popular databases through the Open Database Connectivity (ODBC) standard and directly to SAP R/3. Using Seagate Crystal Reports, ArcLogistics Route generates high-quality

Exclusive Content

[Exclusive Research](#)
Exclusive armored carrier industry research.

[Feature Story](#)
Industry perspectives from Armored Universe.

[AU Help Files](#)
Guides to using ArmoredUniverse.com and services.


Sign up today to receive "Armored Insights", the new industry newsletter from Armored Universe:

Your Name

Your Email Address

Reach The Armored Car Market
Advertise Here





route summary reports, stop vicinity and route overview maps, street-level directions, and driver manifests.

The product is also useful in the development of bids. Large bids can be modeled using ArcLogistics Route and accurate costs and pricing established. In addition to bid modeling, ArcLogistics Route is being used to understand the cost of servicing customers and to audit routes for mileage and time. Calculating operating costs and comparing this to revenue generated is a basic function of ArcLogistics Route and can be done at the route and customer level to identify problem areas.

Infinite Enterprises

Infinite Enterprises, a re-seller of ArcLogistics Route has developed a number of plug-ins that are customized specifically for the armored car industry. These include territory planning, route balancing, matched pairs, frequency, and on demand.

IE Street Editor allows for easy editing of street speeds by programmatic manipulation of segments in group(s) by classification. This program adds enhanced functionality enabling independent assignment of speed limits by geography or multiple groups of street segments by visual selection. It can slow down or speed up any street network within the map set by a percentage factor based on the original default values, and it allows for the user to set a designated speed in mph or kph for a more accurate travel time, yielding real-world route optimization.

IE Dynamic Locations allows end users to easily create locations simply by clicking on any number of existing orders from the MapView, ListView, or TimeView windows within ArcLogistics Route.

IE Matched Pairs allows you to easily create locations dynamically as on-the-way pickups for related order pairs. This allows the route to be optimized while maintaining specific drop-offs for specific pick-ups, such as specialized deposit or vault drop-offs. IE Frequency is a plug-in developed primarily for static routes that need data manipulation of orders occurring at certain frequencies of the week. Data from the source file is converted into a logical equivalence from days of the week for automatic duplication of orders day by day depending on the frequency specified by the end-user.

IE Ondemand is a plug-in developed primarily for the courier industry with fleet performing both static and on-demand orders. Built on the premise of 80% "STATIC" orders within existing routes, with another 20% as on-demand orders taken at a time throughout the day. The plug-in takes into account newly incoming on-demand orders, are assigned in the future based on the "Current System Time" enabling accurate prediction where routes are geographically, before assignment.

IE Rushhour is a new plug-in, that will be out in the next week. This enables the user to manipulate adjustments due to rush-hour traffic. The user can adjust per particular road, junction or route and slow down the average speed to accommodate slower than normal traffic patterns. Once the route has been adjusted, the delay will trickle

down to automatically adjust all routing after the delay.

According to Infinite Enterprises, one of the main differences between ArcLogistics and other route optimization software solutions is price. Depending upon routes and how an armored company will use the software, the software including training and installation runs between \$18,000, and \$25,000.

This price includes customization work to adapt the software to the particular company's needs. Infinite Enterprises also feels that the customer ability to request changes based upon needed functionality is strength of their company and their products. Infinite Enterprises is beta-testing a web based solution for the software. Users would pay a monthly access fee, and be able to perform route analysis via the web, by logging into a secure website. This should be available in the next six months.

Infinite Enterprises typically sells the solution with 5 days of installation and training. The first two days are usually analysis of the company's needs and current data, and the final 3 days are training of employees.

You can take the free introduction to ArcLogistics Route online course from the ESRI Virtual Campus.