

The Routing and Scheduling Solution for Fleet Management

ArcLogistics



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ArcLogistics creates intelligent routes and schedules that optimise the cost, capacity, and productivity of your logistics operations.

ArcLogistics provides a quick and significant return on investment

- Create routes and schedules in less time.
- Meet commitments and improve service.
- Save money, use less fuel, and reduce emissions.

Getting the right deliveries to the right place at the right time is a complex real world problem faced on a day to day basis by Logistics Operators and Fleet Managers. Not only must factors such as delivery time windows, driver hours, and vehicle capacities be considered, but these must then be balanced against variables such as fuel consumption, labour hours, and vehicle use. ArcLogistics addresses these complex challenges and provides logistics professionals with the tools they need to streamline costs in relation to driver schedules, fuel and vehicle maintenance.

What is ArcLogistics

ArcLogistics is a complete off-the-shelf solution that enables Logistics Professionals to tackle complex delivery problems and optimise factors such as distance travelled, customer time windows and operating costs. Incorporating easy-to-use tools and road network data, ArcLogistics will enable you to create and manage dynamic routes and schedules that improve the efficiency and profitability of your deliveries.

If you need to find locations and assign sequential vehicle stops considering factors such as time, cost, capacity, and productivity, then ArcLogistics will save you time and money.

With ArcLogistics, you will

- Create routes and schedules in less time.
- Meet commitments and improve service.
- Save money, use less fuel, reduce emissions.

ArcLogistics is ideal for any size of operation: from a small fleet; to a large, multiuser environment. Unlike other solutions, ArcLogistics includes localised UK road network data complete with drive restriction information, ensuring that your business is basing its delivery schedules on real world road network conditions.

About ArcLogistics Navigator

ArcLogistics Navigator is an in-vehicle navigation solution that equips your mobile workforce and fleet drivers with door-to-door directions for the optimised routes created in ArcLogistics desktop. Route planners and dispatchers can send schedules and routes directly to ArcLogistics Navigator, providing drivers with the information they need to follow the exact streets chosen for the route. Specifically designed for trucking, fleets and logistics, ArcLogistics Navigator extends the considerable return on investment capability of ArcLogistics and ensures that the efficiencies created with ArcLogistics desktop occur as planned in the field.

- Tightly integrated with ArcLogistics desktop
- Helps drivers avoid missed turns; automatically reroutes to optimised routes if vehicles go off course
- Easily deployable, making ArcLogistics a fully integrated solution for route planning and navigation guidance

The Benefits of ArcLogistics

ArcLogistics provides a quick and significant return on investment by reducing your daily cost of operation and improving the accuracy of your scheduling.

- Enable just-in-time scheduling.
- Reduce travel costs
- Improve on-time performance.
- Minimise overtime.
- Build routes that adhere to vehicle capabilities
- Improve customer service
- Maximise the number of service calls/deliveries made each day

With ArcLogistics you can optimise your routes and schedules based on your specific customer needs, internal processes, vehicle types and the road network your vehicles traverse.

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Your fleet operations can become more efficient by building routes and schedules that reduce fuel consumption, labour hours and vehicle use. Furthermore, by assigning orders to vehicles based on the optimal stop sequences using actual street network drive times you can significantly improve your ability to meet strict time windows and increase your operating efficiencies

- Optimised routing can result in savings on distance travelled of 15% or more with consequent reductions in fuel costs, driver overtime and fleet size
- Optimised delivery sequences can be used to pick packages and load vehicles in the required order - resulting in faster turnaround times at each customer drop
- Honouring of time windows means that you can schedule deliveries to meet your customer requirements
- Orders can be prioritised to ensure that higher priority orders get delivered first
- Avoid inadvertently scheduling an inappropriate vehicle when distributing orders among multiple vehicles.
- Production of detailed manifest with driving directions and drop zone maps means that routes can be navigated by any driver without the need for detailed route or local knowledge

- See at a glance the "who, when and where" of your deliveries.
- A range of standard reports showing estimated costs per route and other variables.

Key Features

ArcLogistics provides powerful tools and functionality that helps you manage your fleet efficiently and reduce your delivery routing costs.

- Includes high-quality route network data
- Builds optimised delivery routes based on actual network drive times, not straight-line distances
- Imports customer orders from any Open Database Connectivity-compliant database
- Supports Courier type operations where the route involves both pick up and drop off points
- Respects vehicle navigation variables such as overpasses, underpasses, one way streets, speed limits, and turn restriction conditions.
- Tags each customer order with its geographic location based on an address search or specified locations
- Builds optimised delivery routes based on actual network drive

times, not straight-line distances

- Creates on screen maps showing delivery locations, routes, and time windows.
- Allows you to set vehicle speeds over your street network based on real driver experience
- Allows for second-day routing, for companies who need to deploy vehicles past midnight
- Takes into account speciality of vehicles and drivers.
- Outputs route summary reports, detailed drop zone and overview maps, street-level turn by turn directions and driver manifests.
- Integrates with Automatic Vehicle Location (AVL), accounting, Enterprise Resource Planning, (ERP), and other enterprise technologies.
- Can be extended to provide management information, sales territory planning and more by the addition of other ArcGIS modules.



ArcLogistics 9.3 includes default trip request properties and can solve 'ordered pairs' routing problems out of the box.



ArcLogistics 9.3 enables you to dynamically create barriers and zones.

ArcLogistics at a Glance

- Complete vehicle routing and scheduling solution
- Ability to use multiple street data sets
- Provide customers with more realistic delivery times and reduced service windows
- Build delivery routes based on actual network drive times, several vehicle properties, and properties of orders
- Generate high-quality route summary reports, detailed and overview maps, street-level directions, and driver manifests
- Complete routes and driver schedules quickly
- Easy to learn with easy to use interface

Want to know more?

To find out more and learn how organisations like yours are benefiting from ArcLogistics, visit www.esriuk.com/arclogistics

About ESRI (UK)

ESRI (UK) is part of the global ESRI network. With the single, largest pool of GIS expertise in the UK, the company is the technical authority on GIS. ESRI (UK) provides solutions, technology and services including off the shelf applications built on the ArcGIS software suite and an extensive range of consulting and training services.

Its offerings meet a range of business needs in different markets including Business, Local & Central Government, Public Safety, Utilities and Telecommunications, as well as catering for system integrators and application developers through the ESRI Developer Network.

By building a deep understanding of customers' needs, ESRI (UK) is able to help businesses become more profitable and public service more efficient through the better use of GIS. This process of enhancing sustainable business growth by developing solutions with the power to anticipate and meet industry specific requirements is known as **Visionary Thinking**.