Professional Route Planning Solution

Effectively managing delivery routes involves two distinct phases. First, a plan must be built to efficiently deploy vehicles while satisfying customer demands. Then, it must be fine-tuned to reflect real-world changes. With the right tool, planning for such a fluid environment becomes a powerful way to serve customers and keep a sharp eye on the bottom line.

To offset escalating delivery costs and improve margins that are trending downward, transportation managers need new ways to create efficiencies. With changes in day-to-day delivery requirements adding to the overall complexity of the job, whether a customer changes an order at the last minute or a breakdown occurs on the road, these types of issues significantly impact the day’s delivery schedule and associated costs.

At Descartes, we recognize the challenges that operators face, and have built our business around helping our customers quickly and efficiently improve their service and reduce the cost and complexity of managing delivery processes. We also understand that all organizations are not created equal and, while they may have similar customers, each operates and serves their customers differently. At Descartes, we know that one solution does not fit all so we made the investment in a variety of mobile resource management solutions that meet the needs of our growing customer base.

Descartes WinRoute leverages advanced planning and optimization technologies and was designed to be an interactive tool for route planners. WinRoute can calculate your daily planning, improve service delivery as well as examine the cost-effectiveness of your transportation strategy, helping to understand and control company transportation costs.

For customers with dynamic operational environments that require interactive dispatch and real-time visibility into mobile resources, Descartes WinRoute can be combined with Descartes On-demand Dispatch and AVL.
Features

**Intuitive and Ergonomic User Interface.** Regardless of your knowledge of information technologies, each user will adapt easily to the system and produce the results needed in a short period of time.

**Powerful Optimization Engine.** The robust solution creates more efficient and less expensive distribution routes in a short time period.

**Open and Robust Architecture.** WinRoute can be easily integrated within your existing IT set-up, and offers total interoperability with all transportation management software (TMS) systems, warehouse management (WMS) systems and enterprise resource planning (ERP) systems, on-board computers (GPS) and track & tracing systems.

**High Resolution and Intelligent Cartography.** WinRoute uses the most modern maps and cartographical servers. The high resolution of the Web maps makes the job of the planner easier and more efficient. Our maps contain information about traffic congestion and road speeds, guaranteeing accurate predictions of the driving times. Realistic routes can only be calculated if based on correct information. WinRoute contains an intelligent and multilingual logic algorithm that corrects misspelled addresses and places them accurately on the map.

**Flexible Business Model.** WinRoute adapts dynamically to all your business constraints through its inherent flexibility. WinRoute can handle up to 100 different real-world constraints including the time windows, capacities, working hours... as well as those specific to your own business needs. WinRoute can be used for operational, strategic, as well as for dynamic planning.

Potential Benefits

**Reduce Planning Time.** This regained time can be used to improve service delivery (for example accepting orders until a later deadline) and the comfort of the dispatcher (avoiding working at night).

**Enhance Distribution and Reduce Costs.** A reduction of the number of kilometres, the number of vehicles used, a better grouping of the deliveries and the balanced work load between drivers lead to typical transportation cost reduction 5 to 25%.

**Improve Service Delivery.** The planning WinRoute computes, respects all your constraints and client specifications (time windows, specific delivery measures ...) and is based on the exact model of the company procedures (vehicles, drivers, depots, visits, order specifications, delivery time). These details make sure that every client will be delivered in time.

**Maximize Customer Satisfaction.** With guaranteed on-time deliveries an minimal turnaround time to process orders, WinRoute reduces customer, physical and social constraints helping you work to your own business rules and keep your customers happy.

**Improve Efficiency.** The automation and optimization of your routing process enables you to save time. This not only brings financial advantages, but also opens new capacity to manage last minute orders, optimize internal resources, simplify your planning process and refine your distribution process.