

Route Factory Spreadsheet



TRANSPORT ROUTING AND TERRITORY OPTIMIZATION SOFTWARE

Need better routes? Route Factory Spreadsheet is a powerful but compact routing software solution that runs on your desktop PC to help you efficiently plan, optimize, and dispatch transport routes.

Our software can be used to route individual vehicles or entire fleets in applications such as:

- Food, beverage, and small-goods delivery
- Customer service support
- Home delivery services
- LTL/LTC
- Auto transport
- Household goods moving

Business Value

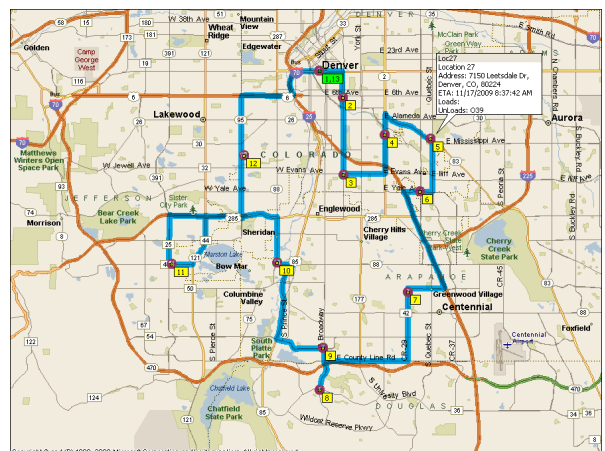
- Reduce transportation costs by 5% to 20% by decreasing miles traveled and increasing on-time delivery.
- Dramatically increase the productivity of dispatchers.
- Provide predictable delivery time estimates to your customers.
- Reduce IT costs with our low acquisition and maintenance costs.

Advantages

- Provides a familiar Microsoft Excel® based interface.
- Works with Microsoft MapPoint® to provide detailed route and territory mapping, customer location geocoding, and driver instructions.
- By building on Microsoft components and our own internally developed route optimization engine we can provide a very affordable integrated routing solution. Yet it still...
- Handles complex routing scenarios with difficult constraints.
- Creates both territories and routes in a single integrated package.
- We incorporate state-of-the-art route optimization algorithms designed and tested by PhD level logistics specialists.
- Our development and support staff have more than 15 years of experience developing professional software
- Available in North American or European versions

Systems View Software

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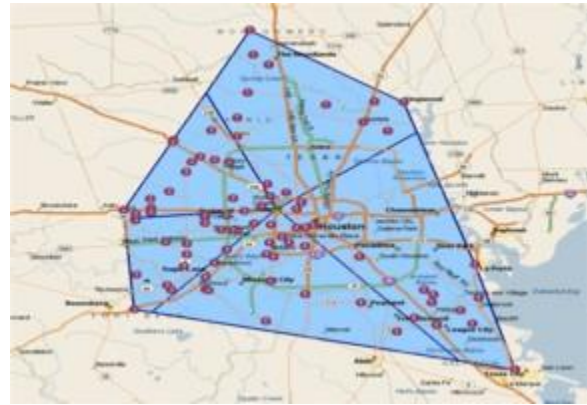


Route Factory Spreadsheet Features

- **Time windows** - Users can specify that orders be picked up and/or dropped off within certain time frames. Time windows can be applied to individual orders, locations, or both.
- **Time fences** – The opposite of time windows, users can specify that locations may *not* be visited during certain times/days.
- **Transport capacities** - Routes can be constrained by transport capacities such as weight, volume, number of units, or other user specified capacity metric.
- **Transport/order properties.** Users can specify that orders with a given property (hazardous, fragile, covered, etc) be carried only by specific transports that support that property. This can also be used to represent service types versus customer service requirements in service delivery applications.
- **Route time/distance constraints** – constrain routes by the day/time a truck leaves/returns to its home terminal or by total distance
- **Driver Profile.** Routes must adhere to the driver profile, which specifies shift time and driving break intervals.
- **ETA computation** - Route Factory provides ETAs based on travel times, driver profiles, time windows/fences, and load processing times.
- **Pickup and Dropoff** – Orders may be picked up and then dropped off at any stop of the route, not just the starting/ending terminal.
- **Delivery Days** - Assign orders to multiple days of the week with a few extra clicks of the mouse.
- **Territory Mode** - Routes can be constructed either within specific territories (territory mode) or to provide overall minimal time/distance (optimization mode). Use your own territories or the integrated *Route Factory Territory Builder* to construct optimal territories.
- **Detailed Route Maps** – Display a selected route, stop sequence, and stop information on interactive, savable, printable street/highway maps and driver instructions.
- **Inventory (Container) Management** – An optional capability to build routes that ensure sufficient inventory is available at stops. A typical application is large-container trash hauling.

Territory Builder Features

This component of Route Factory Spreadsheet is a tactical planning tool used to divide a customer region into geographical "territories". Each territory is a contiguous area containing the customers that will form a single route, or a regular pattern of routes, over a week or other time period. Applications include food and beverage delivery, restaurant supply, refuse collection, fuel delivery, or any distribution or collection scenario with a relatively fixed, repeating delivery pattern.



- **Better division of workload** - Territory Builder can find equal-workload territories even in difficult conditions, such as applications with "lumpy" customer demand.
- **Territory optimization** - Territories are created and shaped to minimize total travel.
- **Depot locations** - The central depot or terminal can be anywhere within the region, not just the center.
- **Territory layering** - The final solution can contain several layers of territories forming concentric rings about the depot.
- **Delivery Days** – Territory workload computations consider the "days-of-week" specifications of orders.

System Requirements

- Microsoft MapPoint® (North America or Europe, 2010 or 2011)
- Microsoft Excel® 2007 or 2010
- Dual processors recommended

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