

Beverage Delivery Solution

Route Optimization and Vehicle Loading Software

How to decide what is more important for your beverage distribution business; routing or vehicle loading? Why not both? To take full advantage of the potential savings, the ORTEC Beverage Delivery Solution (LOADDESIGNER and SHORTREC) was created. As SHORTREC builds optimal routes, the LOADDESIGNER optimization engine is utilized to check vehicle capacity for each route, allowing the route algorithms to continuously optimize based on the constant feedback provided by LOADDESIGNER. The process is fully automated and the results are truly dynamic routes with maximum vehicle utilization.

Key Routing Features:

- Transport cost minimization
- Driver Workload Balancing
- Dynamic Sourcing
- Unloading time calculations (based on vehicle type, customer type, outlet type)
- Flexible vehicle capacity
- Merchandising times
- Incorporates Customer Requirements (Service Frequency, multiple Time Windows, Lift Gate etc.)
- Incorporates Resource Constraints (trailer capacity, driver bids, driver breaks, driver assignment, etc.)
- Single / Multi-Depot Optimization
- Single / Multi-Day Optimization
- Tracking and Tracing of Vehicle Status
- Planning boards for graphical data (schedule) representation
- Digitized street level road maps to calculate optimal travel times & distances
- Display of up-to-date Key Performance Indicators
- Drag & drop capabilities
- Ability to run and compare "What-If" Scenarios
- Extensive reporting capabilities
- Integration with Order Management and ERP systems (SHORTREC is SAP® R/3 certified)
- Integration with WMS Systems
- Integration with Truck Status and GPS Systems



Routing Benefits:

- Measurable ROI
- Increased asset utilization
- Increased customer service
- Increased driver and dispatcher productivity
- Reduced mileage cost
- Reduced overtime cost
- Reduced fuel cost
- Balanced driver workloads
- Decreased vehicle expenses
- Increased profitability

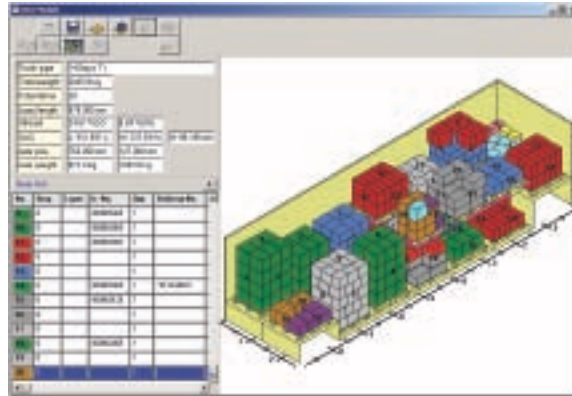
Some ORTEC Customers

Every day, the reach of optimization grows in size and importance. Success stories are abundant at ORTEC. Just take a look at some of our beverage customers:

- Ahold
- Campina
- Coca-Cola Enterprises
- InBev
- Nordmilch

Key Vehicle Loading Features:

- Axle Weight Calculations
- Center of Gravity Calculations
- Product Palletizing
- Cylinder Calculations
- Stackability Matrix
- Deals with Delivery Priorities
- Deals with Vehicle Availability
- Delivery Sequence Loading
- Individual Item Restrictions
- Item Database
- Load Plan Editor



Vehicle Loading Benefits:

- Reduce transport costs
- Reduce loading and picking time in the warehouse
- Less returnables and product damage
- Increased safety, stable loads and correct positioning of hazardous materials
- Load planning in seconds
- Goal-oriented work preparation at the loading ramp
- Detailed view of the load both graphically and in list form
- Simulation of loading process for optimal capacity planning

About ORTEC

With more than 24 years of experience, ORTEC is one of the largest independent providers of advanced planning & scheduling software and professional consulting services. ORTEC currently has over 400 employees and offices in North America, Europe and South Africa. More than 500 customers in different industries already benefit from our advanced software solutions.

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