Having problems maximizing utilization of assets in your transportation network? Whether you manage your own fleet or use dedicated carriers, successfully optimizing your store delivery vehicles and shift-based or wave-based delivery schedule is possible with proper planning and execution. Many factors influence the volume of merchandise a store receives. Seasonal changes, promotional fluctuations, store openings, cross-docks and other variances may result in shipping too much air or blowing out trailers.

By using fixed delivery routes or trying to plan without knowing the distribution center's inventory, you may be wasting time and money. Sharp rises in fuel costs and maintenance, combined with the limited availability of drivers and equipment, has increased the importance of efficient daily load planning and management.

**Control Your Transportation Costs**

Dynamic Route Planning can be deployed remotely or centrally to control shipments for multiple distribution centers, each with different sets of building and loading rules. Loads can be built to include scheduled shipments, staged shipments and pooled cross-dock opportunities.

Dynamic Route Planning may also be integrated with the CDC Supply Chain Suite, including other transportation management components, to provide the ultimate order fulfillment solution for your business. These complementary products allow for control of your entire store or direct-to-consumer fulfillment network and include: visibility, yard management, appointment scheduling, order management, back-order management and performance reporting, parcel manifesting and LTL routing. With a single combined solution, you can quickly increase profitability, gain an edge on your competition and greatly improve your customer service.

Key capabilities include:

- **Maximize capacity utilization** – Increase your overall shipment volume and lower operational costs by building the most efficient trailers within your policies and constraints, including the ability to associate driver shift durations and profiles using our Labor Management component.

- **Create a flexible set of load building rules** – The Embedded Rules Engine is integrated into several aspects of the system, including determining if an order requires transportation planning and assigning a priority.

- **Plan routes and stops before and after wave planning** – Use pre-wave planning to estimate resources and assign route and stop information, or use post-wave planning to assign routes and stops to outbound orders.

**Realize Profits Quickly**

With Dynamic Route Planning, you will generate increased profits quickly:

- Reduce transportation spend
- Maximize capacity utilization
- Provide visibility and control
- Automate load building with scheduled, staged shipments
- Improve customer service and compliance
- Reduce errors and premium shipments
- Eliminate outside service costs
- Reduce labor and maintenance costs by centrally managing the transportation network
- Reduce administrative costs
We Make It Easy for You

Dynamic Route Planning is easy to buy, implement and use.

Easy to Buy:
• Affordable and flexible licensing models
• Easily identifiable return on investment

Easy to Install and Implement:
• Typical implementation of less than 45 days
• No complex integration – software is comprehensive and all internal integration is off-the-shelf
• Expert implementation support

Easy to Use and Operate:
• Web-based graphically-rich user interface
• Flexible end-user configuration
• A component-based solution
• Utilizes OAG based XML documents for external integration
• Supports complementary business processes with ERP and warehouse and yard management
• Built with JAVA technology to allow distribution of core functions on Unix servers

• Customize the Planning Engine – Using our industry leading “Genetic Algorithm” technology, examine the set of pickups and deliveries to determine the optimal way to use the resources in a dedicated fleet. Set up one of three configuration types for the planning engine: algorithm-related, constraint-related or importance factors. Specify desired schedule and time constraints, weight and volume limits and early/late arrival tolerances by delivery/pickup point.

• Configure store delivery windows – Stores have limited resources for unloading and need to schedule people for the right time. With Dynamic Route Planning, you can sequence planned shipments onto a trailer to meet store delivery windows and improve service.

• Configure trailer break rules – Loads are built based upon the item and trailer. Build loads to break by weight and volume, while limiting a shipment geographically and by stop capacity. These rules are flexible and customizable depending on your warehouse priorities.

• Plan Pool Distribution - Plan shipments from a distribution center through a store support cross dock facility or other distribution hub to save transportation costs.

• Create flexible trailer zones - Split your resources into multiple zones to handle different types of material (i.e. small and bulk zones) while taking into account their dimensions and physical limitations.

• Establish a delivery attempts rule – Set the number of repeat delivery attempts and if the number of missed delivery attempts exceeds the specified limit, the shipped units will be returned to the warehouse.

• Collect proof of delivery statistics – Driver executes a route using the Electronic Driver Manifest Report, while capturing proof of delivery from each stop. At the end of each day, the driver enters his delivery exceptions into the system and obtains a delivery summary report.