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Delivering end-to-end visibility and control across your global network

Transportation Management

Transportation is the lifeblood of your supply chain. Transportation decisions impact all aspects of your business, from customer satisfaction to product availability and profitability. And, since transportation-related costs represent roughly 60% of total logistics expenditures¹, optimizing this component of your supply chain is vital. Driver shortages, changing regulations, fuel costs, global security concerns

and new regulations only intensify the pressure.

We were able to achieve our goal of a 10-15% reduction in freight spend after just six months of live runtime on the system.

— Papa John's

Manhattan's Transportation Management is a holistic suite of solutions that simplifies, optimizes and

The suite includes:

- Transportation Procurement
- Transportation Planning & Execution
- Dispatch Management
 - Audit, Payments & Claims
 - Appointment Scheduling
- Yard Management

reduces cost for every operational aspect of managing a complex transportation network. It goes beyond the cookie-cutter, out-of-the-box technology of a typical transportation management system (TMS) to provide powerful end-to-end strategic insight, control and visibility into every detail of your transportation operations and global supply chain. Your network becomes transparent so you can optimize all modes of transportation, leverage available assets and better manage domestic and international operations with visibility across all channels.

Our platform-based approach to transportation management gives you complete global control so you can better anticipate workflow, plan more effectively, and optimize equipment and labor, while ensuring the utmost customer satisfaction.



supply chain commerce delivered™

Manhattan
Associates®

Whether you operate your own private fleet or procure outside carrier services, Manhattan's Transportation Management offers the scope of solutions you need to run a comprehensive, integrated system—and achieve better results than you thought possible. With global visibility and dynamic control over ever-changing conditions, you can reduce costs, avoid trouble spots and orchestrate deliveries with great precision. Our suite includes six robust solutions, all with the ability to integrate with each other and other TMS and WMS applications.



■ Transportation Procurement

Selecting the right carriers makes a big difference in profitability and customer satisfaction. And sometimes the best carrier isn't always the least expensive. How do you determine the best combination of carriers to meet your requirements? How do you weigh price against other factors, such as capacity, service and quality?

Transportation Procurement is a web-based tool for contract sourcing—to match your business needs with carriers' capabilities and capacity and ensure you receive the best rates. By automating the process from RFP to final contract, the solution simplifies identification of the optimal carriers for each lane in your network whether by ocean, air or surface. It considers key business factors, such as freight variability, seasonal surges, equipment requirements, carrier rates and service-level rankings.

Features + Functions

- Automate contract sourcing and reduce transportation costs
- Manage bids for all modes of transportation
- Simplify contract management
- Accommodate incremental bids to secure capacity outside existing contracts due to dynamic network changes
- Integrate contract awards seamlessly with Transportation Planning & Execution
- Gain support through strong familiarity and comfort level on carrier side

■ Transportation Planning & Execution

In a dynamic and volatile market, improving transportation planning and management can

reduce costs and improve customer satisfaction. Transportation Planning & Execution provides tools to optimize and execute both inbound and outbound shipments in real time. No matter how complex your network, you can secure capacity for shipments across multiple modes and locations, whether common carriers or dedicated and private fleets.

This web-based solution links carriers' capacity and capabilities to actual shipments. It identifies the best solution to meet your requirements for quality, cost and speed. You can coordinate efforts with your transportation partners and enjoy complete visibility into transportation activities across your network.

Features + Functions

- Manage all modes of transportation
- Consolidate orders to build efficient shipments
- Handle continuous moves, backhauls and cross-docking
- Enable partner communication via electronic communications
- Support carrier and supplier compliance programs and guidelines
- Accommodate visibility, alerting, tracking and tracing needs

“Using Manhattan's integrated TMS/WMS solution, Lennox increased productivity levels 50%, improved shipping accuracy from 98% to 99.97% and improved inventory accuracy from 97.5% to 99.53%. The accuracy along with the productivity gains paid for the system.”

— Lennox International

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WHY MANHATTAN?

“Manhattan's flexibility allows me to be much more responsive to my customers' needs; at the same time I'm able to minimize my own back-end administrative costs.”

— GENCO ATC

- 1 Many best-in-class shippers have partnered with Manhattan to **reduce transportation costs 10-25%**
- 2 Build efficient **inbound and outbound** shipments
- 3 Increase backhaul opportunities to **reduce empty miles**



Manhattan Transportation Management:

Delivering end-to-end visibility and control across your global network

Only Manhattan has customer-centered **Supply Chain Commerce** solutions that balance profit and performance while growing revenue and relationships.

- 4 **Multi-modal, multi-leg optimization** for global and regional shippers
- 5 Choose from SaaS, single-tenant hosted and on-premise **deployment options**—whatever best suits your business

Transportation-related costs represent roughly 60% of total logistics expenditures¹ so optimizing this component of your supply chain is vital.

■ Dispatch Management

Many shippers use both commercial carriers and private or dedicated fleets. The combination can lower costs, but without the right software and processes in place, it can create inefficiencies and coordination issues. Dispatch Management combines detailed fleet coordination with common carrier management from a single platform. It optimizes profitability by automatically recommending the optimal route, driver and vehicle based on hours of service, availability, compliance, seniority and service needs. With a holistic view of all transportation resources, you have instant visibility into the impact of changes, so there's no risk of compromising efficiency or quality.

Our solution addresses the complexity of enterprise-wide transportation optimization by addressing two key functions—Shipment Planning and Dispatch Re-Optimization. Both processes use the same dispatch model to create the most efficient run combination for the day.

■ Features + Functions

- Optimize all assets, including drivers, tractors and trailers
- Balance loads across shifts and resources to level workloads
- Provide driver support with dispatch and kiosk support
- Support long-haul routing needs
- Ensure compliance with federal regulations

■ Audit, Payment & Claims

No matter how efficient your transportation processes, if you aren't monitoring payments and claims, you're leaving money on the table. Duplicate and incorrect billing plagues the transportation industry largely because most systems do not automatically audit rates or show baseline and accessorial charges.

¹ State of Logistics, Council of Supply Chain Management Professionals, 2012

Transportation Management

Audit, Payment & Claims maximizes savings by converting data from multiple manual and automated sources into a single database of freight invoices. As a result, you reduce handling time, identify cost errors, eliminate invoice duplication, monitor carrier performance and achieve 360-degree visibility. With rich features in five key areas—Integration, Invoice Management, Invoice Matching, Claims Management, and Reconciliation and Payment—our solution flags errors and streamlines processes.

Features + Functions

- Allow match or auto payment to carriers
- Support audit on accessorials and line-haul charges
- Enable payment or interfaces to financial systems to pay within defined tolerances
- Manage invoicing and reconciliation through carrier portal or electronic communication (EDI, XML)
- Support claims management and settlement
- Allocate freight costs to the SKU level

■ Appointment Scheduling

Carrier appointment scheduling that isn't up to par can result in inadequate labor allocation, inefficient loading/unloading and unnecessary dwell times. Our Appointment Scheduling tool allows motor carriers and suppliers to 'self-schedule' their warehouse delivery and labor needs.



Using this tool, you can increase productivity and level workloads, stay on schedule and keep in compliance with U.S. Hours of Service and other government regulations. Appointment times and resource allocations are system-generated and load times are automatically calculated based on required delivery dates, order content, dock capacity, warehouse capacity and labor requirements.

Features + Functions

- Provide self-service capability for carriers and facilities to schedule appointments
- Recommend appointment times based on resources, service needs and shipment content
- Support system-recommended times to drive appointment setting and dock resources allocation at the DC

■ Yard Management

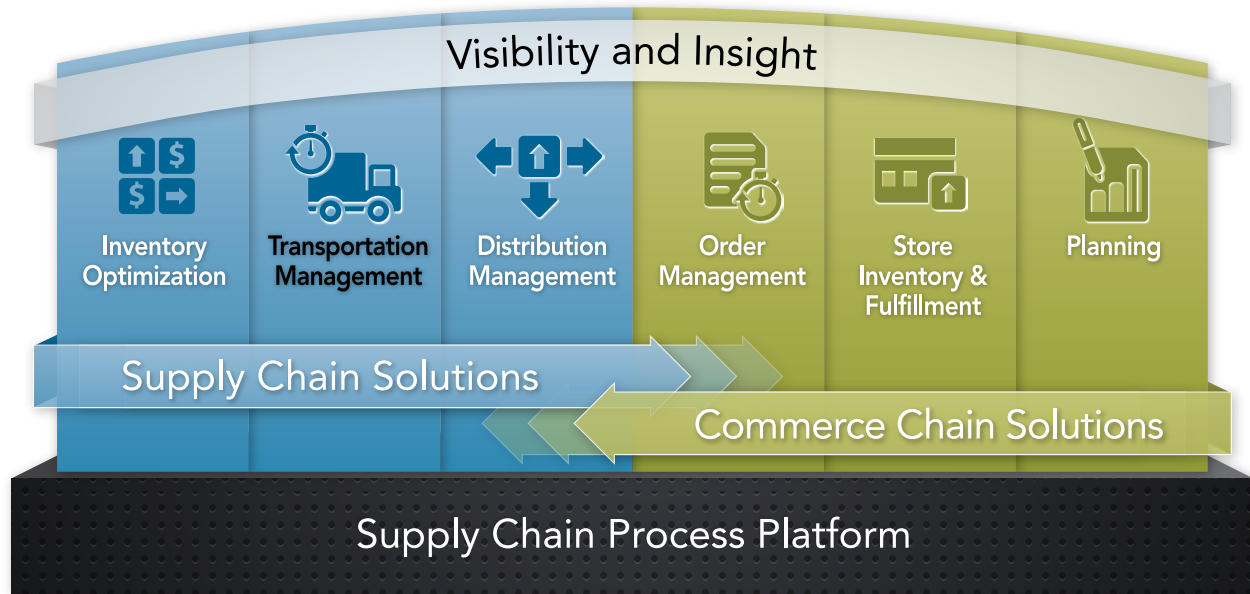
Yard Management maximizes yard and warehouse efficiency by managing the flow of inbound and outbound goods. This proven solution enables you to plan, execute, track and audit loads based on characteristics like shipment type, load configuration, labor requirements and dock and warehouse capacity.

Yard Management shows all trailers and other yard assets and tracks their exact locations. Guard check-in/check-out is monitored for appointment and yard security while critical loads are identified and expedited. By tracking task completion, you can perform inquiries, run reports and review real-time information. Data collection even enables you to use yard inventory to satisfy orders before processing begins at the dock door.

Features + Functions

- Gain visibility to shipments on the yard and to the associated inventory
- Increase control over equipment operating on the yard for maximum efficiency
- Provide a graphical view and task management of yard moves with integrated labor management support for dock resources

As part of Manhattan SCOPE[®], **Transportation Management** is a holistic suite of solutions that simplifies, optimizes and reduces cost for every operational aspect of managing a complex transportation network.



- Transportation Procurement
- Transportation Planning & Execution
- Dispatch Management
- Audit, Payments & Claims
- Appointment Scheduling
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Manhattan SCOPE[®] is the only portfolio of supply chain commerce solutions built on a common technology platform available on the market today. SCOPE leverages the investments we've made in our **Supply Chain Process Platform**[™] to deliver both the traditional bottom-line benefits associated with supply chain improvements and the top-line revenue gains created by commerce initiatives.

SCOPE provides Supply Chain Solutions to optimize efficiency and performance and Commerce Chain Solutions to seize opportunities for revenue growth, complemented by Visibility and Insight applications to support functional capabilities across the platform.



Manhattan Associates continues to deliver on its 23-year heritage of providing global supply chain excellence to more than 1,200 customers worldwide that consider supply chain optimisation core to their strategic market leadership. The company's supply chain innovations include: Manhattan SCOPE[®], a portfolio of software solutions and technology that leverages a Supply Chain Process Platform to help organisations optimise their supply chains from planning through execution; Manhattan SCALE[™], a portfolio of distribution management and transportation management solutions built on Microsoft[®] .NET technology; and Manhattan Carrier[™], a suite of supply chain solutions specifically addressing the needs of the motor carrier industry. For more information, please visit www.manh.com

Manhattan Associates is committed to developing supply chain solutions that foster environmental stewardship.



Learn more about Manhattan Associates and our solutions:

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