JDA TRANSPORTATION & LOGISTICS MANAGEMENT

REAL RESULTS. FAST.

JDA SOFTWARE HELPS THE WORLD’S LEADING RETAILERS, MANUFACTURERS AND WHOLESALER-DISTRIBUTORS TO ACHIEVE TANGIBLE BENEFITS BY ENABLING VISIBILITY, COLLABORATION AND SYNCHRONIZATION ACROSS THEIR NETWORKS. HERE ARE SOME REAL RESULTS THAT OUR CUSTOMERS HAVE ACHIEVED WITH JDA’S TRANSPORTATION MANAGEMENT SOLUTIONS:

- **Achieved 8 percent annual reduction in transportation cost**
- **Realized 10 percent improvement in load consolidation**
- **Improved planner productivity by 67 percent**
- **Achieved 100 percent return on investment within one year**
- **Increased capacity utilization to save more than $200 million annually**
- **Improved time to value through the development of a global template**
- **Effected regional deployments with localized execution**
- **Managed 15,000 orders daily per site; two-minute machine time**
- **Created a true shared service structure leveraging synergies across all product divisions**
- **Expanded strategic use to the creation of a revenue-generating third-party logistics entity**
- **Achieved $8 million in freight savings in first year of implementation, and continued realizing incremental savings of $12 million to $14 million each year through innovation and a holistic approach**
- **Increased efficiency in warehouses and carrier operations**
- **Improved service levels including on-time delivery by 20-40 percent**
- **Decreased carrier turn-down rate by as much as 40 percent**
- **Improved customer fill rates by 20-30 percent**
- **Improved in-stock position by 5-35 percent**
- **Reduced lead and cycle time by 25-75 percent**

*Represents actual results realized by JDA customers.
**Challenge: Enhancing Profit Ability in Today’s Complex Global Market Place**

Fundamentally, the role of transportation and logistics management is simple: optimally balance capacity, service and other drivers to get the right product to the right place at the right time and lowest cost. But the realities of today’s complex global market place make fulfilling that objective anything but simple as companies navigate challenges including:

- Increased pressure to meet the order fulfillment demands of omni-channel consumerism
- Inefficient asset utilization from sub-optimized load building and order consolidation
- Increased complexity of international transportation and logistics
- The need to optimize cost-to-scan models with cross-channel retailing

In order to address these and other issues in the ever-evolving landscape, companies must find ways to infuse flexibility into their networks. The traditional tried-and-true methods of manufacturing, distributing, selling and consuming products are changing with monumental supply chain impacts, and organizations need agile solutions that can keep pace with and adapt as those changes occur. Today’s companies—regardless of where they sit in the supply chain—must not only achieve efficiencies and operational control but also develop the agility necessary to competitively serve today’s end consumer.

**Solution: Driving Agility and Optimization with End-to-End Transportation and Logistics Management**

For more than 25 years, JDA Software has led hundreds of deployments of our world-class, integrated transportation & logistics management solutions at some of the biggest names in retail, manufacturing and wholesale distribution. Our proven solutions optimize the most complex global logistics networks for the world’s leading companies, driving reduced costs, increased agility and improved performance for these organizations.

Featuring a broad footprint, rich functionality and unparalleled scalability to accommodate even the largest global transportation practices, JDA’s comprehensive solution suite effectively manages the entire closed-loop transportation process—from long-range strategies and operational planning to day-to-day execution.

From granular street-level fleet movements and routing to dynamic multi-modal global planning and execution, JDA’s integrated yet modular solution set is easily configurable to meet your current and future needs. Providing dynamic, iterative optimization, global template deployment and demand-driven supply chain agility on a unified platform, JDA empowers you with the capabilities you need to solve today’s intricate transportation challenges, including:

- Transportation network design and optimization
- Strategic logistics procurement and contract management
- Actionable and integrated analytics and reporting
- Dock scheduling optimization and execution
- Fleet routing and management
- Containerization and load building
- Load tendering and shipment/load confirmation
- Operational event management and visibility
- Freight audit and payment
- Real-time insights to predict future disruptions
- Correlation and rationalization of big data

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### JDA Transportation & Logistics Management Features:

#### Modeling

**JDA Capabilities:**
- Provides market-leading differentiators, including a powerful solving engine, flexible data sourcing, versatile solution output and the ability to model fixed routes and address location-based throughput constraints.
- Provides both tactical and strategic planning capabilities.
- Uses sophisticated optimization tools and real-world data to define scenarios and analyze the effects of new business, historical performance, peak flows and other variables.
- Facilitates global logistics as well as street-level routing optimization.
- Manages the parcel mode as a core service directly within the transportation management system to leverage advanced consolidation and modal shift opportunities without having to rely on third-party software.

**Benefits:**
- Reduced overall transportation costs
- Time-to-value savings achieved in weeks
- Reliable distribution network driven by an operationally feasible plan
- On-time delivery of mission-critical supplies for manufacturers
- Increased profitability and improved pricing and scoping of new business opportunities for logistics providers
- Simultaneous profitability analysis of the holistic impact of new business opportunities
- Fulfilled replenishment requirements and reduced stock-out

#### Procurement

**JDA Capabilities:**
- Features collaborative workflow that integrates transportation manager load history and tariff creation for closed loop execution and procurement practices.
- Features partial bid and partial award modeling.
- Offers flexible carrier multi-modal bidding and optimized mode allocations by lane with multi-mode engagement modeling.
- Improves ability to fully satisfy network demand with enhanced diagnostics to help quickly identify and resolve any network infeasibilities.
- Provides visibility into the most cost-effective bid combination while still meeting shipper service requirements.
- Provides the ability to assure carriers of a reliable network definition and bid awarding process driven by an operationally feasible plan—leading to more reliable bid responses and pricing accuracy.
- Delivers powerful analysis and performance monitoring.

**Benefits:**
- Reduced overall administration and transportation costs for shippers and for carriers.
- Rapid execution with seamless rate exporting of bid optimization results back into JDA’s transportation management system.
- Cost savings on a specific portion of the overall network with easier work flow and algorithms to run smaller, more frequent bid engagements in an e-auction engagement modeling process.
- Improved cost optimization results while allocating freight and carriers within constraint tolerances.
- Rapid time to value in weeks per engagement depending on the number of carriers and rounds.
- Contracted savings and carrier compliance.

#### Freight Order Management

**JDA Capabilities:**
- Provides real-time, centralized tracking of the entire inbound delivery process.
- Enables supplier collaboration.
- Captures requests for dynamic routing and shipment confirmation.
- Issues electronic routing instructions and advanced shipping notifications.
- Manages key vendor compliance milestones.
- Generates VICS- and UCC-compliant shipping documentation.

**Benefits:**
- Increased inbound order visibility
- Improved lead time and performance
- Faster order cycle times
- Improved service/in-stock levels
- Advanced optimization opportunities
- Decreased expediting costs
- Detection and resolution of business process exceptions.
## TRANSPORTATION PLANNING
### JDA CAPABILITIES
- Features powerful solving engine that transforms order fulfillment, procurement and replenishment plans into cost-optimized transportation plans that adhere to facility, inventory and transportation network constraints
- Provides integrated containerization and inventory-constrained load building
- Facilitates global logistics with the ability to support all contract types in a single, dynamic global optimization
- Features interactive optimization and plan editing
- Automatically selects the most efficient combination of modes, carriers, shipment schedules and routes
- Consolidates shipments into cost-effective loads
- Evaluates load consolidation, modal tradeoffs and opportunities for continuous moves

### BENEFITS
- Reduced overall freight costs
- Quick time to value with payback in months rather than years
- Improved utilization of privatee fleets and shipping containers alongside driver assignment, dispatch and asset tracking
- Reliable distribution network driven by an operationally feasible plan that meets real-world conditions
- Increased customer satisfaction and repeat orders stemming from highly competitive lead times and shipping costs
- Ability to optimize fleet routing movements at the granular street level alongside long-haul fleet movements and contract carrier movements in a single solution

## TRANSPORTATION MANAGEMENT
### JDA CAPABILITIES
- Manages the entire transportation execution lifecycle
- Supports global logistics and street-level routing
- Settles freight financial transactions
- Provides unmatched customization and extensibility
- Manages both the customer and carrier side of any move
- Automates carrier selection based on a combination of cost and performance factors
- Supports automated tendering of loads to carriers
- Rates and routes shipments with mode and carrier assignments
- Conducts automated carrier selection against contracted rates
- Provides real-time execution details into optimization decision-making and metric-based exception management through a transportation smartbench

### BENEFITS
- Improved service levels
- Least-cost shipment plans and loads that maximize capacity utilization
- Reliable distribution network driven by an operationally feasible plan
- Reduced direct warehouse labor costs
- Decreased damage-in-transit losses
- Enhanced operational efficiencies and customer satisfaction
- Proactive real-time monitoring and intelligent exception management across orders, inventory and shipments
- Enhanced visibility, productivity and usability with interactive smartbench that transforms data into digestible information

## BUSINESS ANALYSIS
### JDA CAPABILITIES
- Offers actionable and integrated analytics and reporting
- Provides seamless business intelligence including the data structures, data integration, reports, dashboards, exception management and user interfaces that match your transportation operational workflows
- Features native JDA transportation management system integration for strategic decision support
- Synchronizes information from disparate sources and provides merged analysis
- Features predefined, transportation KPI-driven dashboards

### BENEFITS
- Delivers more than 10 years of intellectual property, transportation expertise and more than 60 integrated key out-of-the-box analytics - saving time and reducing implementation costs
- Enables collaboration and data-sharing with key stakeholders
- Improves visibility and fosters timely solutions to business challenges
“BY USING JDA SOLUTIONS INSTEAD OF OUR LEGACY TMS, WE ARE SAVING AN INCREMENTAL $12MILLION TO $14 MILLION A YEAR IN FREIGHT CHARGES, INCLUDING $8 MILLION IN THE FIRST YEAR OF IMPLEMENTATION. WE REALIZED A FULL PAY BACK ON OUR JDA INVESTMENT WITHIN ONE YEAR.”

TONY POOLE
ITS BUSINESS PARTNER, CORPORATE TRANSPORTATION
KIMBERLY-CLARK CORPORATION

“JDA’S ADVANCED TMS IS THE ONLY SOLUTION TODAY THAT HAS THE ABILITY TO DELIVER BEST-IN-CLASS SUPPLY CHAIN MANAGEMENT FUNCTIONALITY ALONG WITH THE ADAPTABILITY TO CUSTOMIZE WORK FLOWS AND SCALE ACROSS OUR COMPLEX AND DISTRIBUTED SUPPLY CHAIN NETWORK. THIS COMBINATION OF WORLD-CLASS DOMAIN EXPERTISE, RICH SOLUTION FUNCTIONALITY AND INNOVATIVE DELIVERY METHODOLOGY WORKS TO EXTEND THE VALUE OF JDA TRANSPORTATION MANAGEMENT SOLUTIONS BOTH INSIDE AND OUTSIDE OF OUR ENTERPRISE AND ENABLES HIGHLY CUSTOMIZABLE AND CONFIGURABLE USER INTERFACES IN AN EFFECTIVE AND COST-EFFICIENT MANNER.”

LEE GEUN AN
CHIEF OFFICER, MANAGEMENT INNOVATION TEAM
HI-LOGISTICS, LG ELECTRONICS’ LOGISTICS SUBSIDIARY