

Supply Chain Planning & Optimization



JDA Software: Transforming the Supply Chain into a Source of Competitive Advantage for Organizations Worldwide

Companies are striving
for adaptive supply
chains to respond to
market trends and
minimize costs while
optimizing ERP systems.



THE SUPPLY CHAIN COMPANY®

Real Results

Why do companies worldwide rely on JDA Software to deliver supply chain planning and optimization value? *Real Results. Fast.*

JDA Software helps the world's leading manufacturers, wholesalers and retailers achieve tangible benefits through innovative network and inventory optimization. Here are some of the real results that our customers have achieved with JDA's Network & Inventory Optimization solution*:

- Determined site selection, disaster planning and net landed cost for distribution centers in a growing discount retail chain with 8,250 stores in 35 U.S. states
- Designed strategic and tactical network – including new distribution center, consolidation and plant-to-DC sourcing – for a growing \$1.2 billion bottling operation with 54 distribution centers
- Determined what and where to source, resulting in 15 percent reduction in network costs across two manufacturing plants
- Determined optimal “how and when” pre-build decisions, including use of resources and trade-offs (truck vs. rail) affecting overall line cost
- Reduced working capital through rationalization of current distribution centers and cost-effectively determining long-term optimal network configuration
- Determined “what and where” production decisions across three plants with similar capabilities, while justifying capital expenditures plus evaluating total network cost and most optimal manufacturing configuration
- Utilized long-term capacity planning to determine number of lines needed for 5-10 year horizon

* Represents actual results realized by JDA customers

Sample of JDA's Supply Chain Planning & Optimization Customers

Abbott Laboratories
ACCO Brands Corporation
Ajinomoto Co Inc
Alpina SA
AT&T Mobility LLC
Bic Corporation
CCBCC Operations LLC
Cheese Company
Church & Dwight Co., Inc.
Coach, Inc.
Constellation Wines, Inc.
Cordis Corporation
DAF Trucks
Duracell Batteries
Elemica Holdings Ltd
Energizer Holdings, Inc.
FILA S.P.A.
Fuji Photo Film Co Ltd
Georgia-Pacific Corporation
GlaxoSmithKline U.S.
Gordon Food Service Inc
Gruppo Galbani S.p.a
Harley-Davidson, Inc.
Heinz Company Ltd
Hyundai Mobis
InBev
Johnson & Johnson Vision Products Inc (Vistakon)
Kraft Foods
K-Swiss Inc
McCormick & Company, Incorporated
Meiji Milk Products Co Ltd
Merial Ltd
Multipart Group Ltd
Nissan North America, Inc.
Novartis AG
Nutrexpa
Owens & Minor, Inc.
Oxford Industries Inc
Pactiv Corporation
Pfizer Inc.
Robert Bosch LLC
Sanofi Aventis
Sara Lee Food & Beverage
Solo Cup Company
Sperian Protection Americas, Inc.
Swire Beverage
Tenneco Inc.
The Black & Decker Corporation
The Goodyear Tire & Rubber Company
Torraspapel SA



Adaptive Supply Chain

Challenge: Providing Flexibility and Scalability to Manage the Global Supply Chain

In today's business climate of increasing supply chain globalization, supplier consolidation, compressed product lifecycles and diminished time horizons between planning and execution, manufacturers, wholesalers and retailers must strive to ensure their supply chain planning and optimization technology initiatives maximize business investment returns. Companies cannot afford to accept less than fully functional tools. However, most of the supply chain solutions available today – including enterprise resource planning (ERP) platforms – provide generalized capabilities that are constrained by design-inherent scalability limitations. These solutions force trade-offs between level of demand granularity, planning time horizons supported and scalability.

Additionally, most solutions cannot address the dynamic nature of demand, and merely automate supply chain decisions – instead of optimizing supply chain decisions. Lack of dynamic visibility results in suboptimized plans and decisions, inevitably resulting in inefficient working capital levels, lower-than-expected customer service and significantly lower return on assets than is otherwise possible. Achieving total optimization requires more than today's status-quo daily planning and execution – it requires next-level supply chain planning and optimization.

“In today's highly competitive marketplace, it is imperative to rapidly respond to market changes and proactively meet fluctuations within the demand and supply chain. JDA solutions will allow us to optimize business processes in all of our divisions including merchandise planning, demand planning and through the replenishment process. By tightly integrating these core business processes, it will allow us to collaborate internally, ensuring that we meet our customers' needs and thrive in our industry. The advanced functionality within JDA solutions will take us to the next level.”

*Randy Burdick
Executive Vice President
& Chief Information Officer, OfficeMax*

Solution: Transforming the Supply Chain with Integrated Optimization and Visibility

Only the JDA Software Supply Chain Planning & Optimization solution suite provides the scalability, flexibility, and depth and breadth of capabilities necessary to address the complete, integrated supply chain process and achieve consumer-centric, adapted demand – while also extending the value of your current transaction solution investment. JDA's solution also enables you to enhance sales and operations (S&OP) processes by ensuring alignment with strategic business plans, providing capabilities including demand shaping, optimized constrained distribution and production planning, robust reporting and advanced scenario planning.

Transform your supply chain into a source of competitive advantage as JDA Supply Chain Planning & Optimization delivers collaborative visibility into all critical functional areas for holistic optimization across end-to-end supply chain processes – from dynamic demand management, to replenishment and network/inventory optimization, to supply/manufacturing and pricing/promotions management, to reporting and analytics.

Managing Multiple Levels and Views of Customer Demand for All Planning Horizons

Using intelligent forecasting algorithms for utmost accuracy, JDA's Supply Chain Planning & Optimization solution enables you to manage and reconcile demand across multiple levels of hierarchies and multiple attribute groups down to the SKU, customer and point of sale level for all planning horizons – short-term, medium-term and strategic. Driving business performance and productivity, users will no longer have to rely on labor-intensive, time-consuming spreadsheet exporting, importing and macros in order to manage the appropriate granularity of demand. JDA's solution also uniquely provides you with an integrated demand signal repository within the demand planning environment, complete with analysis and reporting capabilities.

Total Demand Visibility End-to-End Optimization

Producing Highly Optimized, Integrated Plans

With JDA's solution, you will be able to dynamically adapt supply chain flows and decisions to produce optimized, integrated and executable plans with total demand visibility. The comprehensive solution goes beyond simple supply chain decision automation and provides the deep capabilities needed to continuously optimize both the strategic network design and the dynamic operational plans of the entire supply chain. This ensures that the network:

- Operates with the right material/inventory sources and quantities
- Maintains high asset utilization levels and the right production capacity network
- Leverages an efficient distribution network and optimizes all replenishment decisions
- Utilizes efficient carrier and private fleet network assets needed to execute against the most efficient logistics plan

The solution automates the sophisticated optimization process behind the scenes, so users only see the end result – highly optimized and executable plans. You'll deliver improved performance without needing to find and maintain advanced, specialized user skills within your organization.

Delivering Rapid ROI from your ERP Investment

With JDA's Supply Chain Planning & Optimization solution, you can leverage and extend the value of your current ERP transaction system investment. Built on the high-performance JDA® Enterprise Architecture – proven worldwide in hundreds of production deployments – JDA's solution seamlessly integrates with any ERP or legacy system, including SAP and Oracle, delivering new supply chain performance and optimization levels previously not possible. This low-risk, stable and proven solution will not only reduce your supply chain costs but also minimize impact to your operations.

Modular, Phased Approach

This powerful solution does not require comprehensive, extensive implementation up-front. All of the Supply Chain Planning & Optimization applications reside on a single platform with a common security model and an integrated data model that enables minimal data maintenance, zero custom integration, easy reconfiguration and infinite scalability. Since the system is modular yet integrated, it can be implemented in phases that deliver rapid benefits on your business's high-priority needs. Start with the functional area most critical to your company, such as demand management, and plug in other functions as your business requires. Supply Chain Planning & Optimization enables you to align your deployment with your specific supply chain priorities.

“JDA has significantly improved Church & Dwight's bottom line. We have maintained an even higher rate of case fill over the last couple of years. Additionally, we've reduced our inventory dollars and our turns are among the best in the industry. These results are directly related to our use of JDA.”

*Sam Dragotta
Senior Director of Supply Chain,
Church & Dwight*



JDA Delivers Integrated, End-to-End Optimization Capabilities for Your Adaptive Supply Chain Transformation

Requirements	JDA Capabilities	Benefits
Demand Management	<ul style="list-style-type: none"> Develops forecasts from multiple demand streams: orders, shipments, POS sales and customers' DC withdrawals Selects from multiple forecasting models and optimally tunes parameters Supports flexible hierarchies across products, locations and channels for reviewing/reconciling forecasts across multiple levels Provides attribute-based forecast and review management Manages product lifecycle, from new product introductions through phase-out Decomposes baseline demand to improve forecast and manage promotions 	<ul style="list-style-type: none"> Drives industry-leading forecast accuracy Decreases safety stock Improves promotional forecast accuracy Optimizes promotional in-stocks and reduces overstocks
Distribution Planning	<ul style="list-style-type: none"> Develops multi-tier, time-phased order, shipment, receipt and inventory plans Optimizes constrained supply allocations for deployment network-wide Supports multiple safety stock strategies and date-sensitive items Manages item lifecycle transitions and product substitutions Supports multi-sourcing strategies and balances network inventory Handles multi-level bill-of-materials and optimizes constrained/excess materials 	<ul style="list-style-type: none"> Improves service and order fill rates Reduces inventory and obsolescence Increases material availability and asset utilization Reduces procurement and inventory carrying costs
Production Planning & Scheduling	<ul style="list-style-type: none"> Builds feasible, optimized and responsive production plans Optimizes materials, resources, changeovers and capacities across multi-stage/site manufacturing, distribution and supplier networks driven by prioritized customer demand Considers various production attributes such as flavor, size and/or color to optimize line-level plans 	<ul style="list-style-type: none"> Significantly reduces freeze periods and cycle times Creates a lean production environment Improves profitable resource utilization
Strategic Network & Inventory Optimization	<ul style="list-style-type: none"> Determines optimal network strategies for sourcing, distribution and transportation Determines optimal mix of service levels and inventory targets across the supply chain network, and sets long-range capacity plans Sets best sourcing and inventory policies, and permits collaboration with internal and external trading partners Supports asset rationalization projects including consolidations, mergers and acquisitions Develops contingency plans for responding to supply chain events 	<ul style="list-style-type: none"> Improves customer service and order fill rates Frees working capital Reduces total operating costs Improves total network utilization Reduces costs from inventory obsolescence
Vendor Managed Inventory	<ul style="list-style-type: none"> Uses customers' POS sales and/or DC withdrawals to develop customer-specific demand and order plans Develops optimized VMI orders that meet customer service level goals and improve inventory productivity Provides collaborative capabilities, enabling joint management of regular and promotional demand plans 	<ul style="list-style-type: none"> Increases sales and forecast accuracy Reduces inventory Speeds response time
Sales & Operations Planning	<ul style="list-style-type: none"> Provides global visibility into all resources, capacities, inventories, movements and demand streams Aligns strategic business plans with operational planning and execution Provides accurate what-if modeling to support fact-based decisions 	<ul style="list-style-type: none"> Increases revenue and margins Improves customer service Increases promotional ROI
Performance Management	<ul style="list-style-type: none"> Features pre-configured data mart and reports for standard KPI reporting Utilizes extensible data model, enabling adding additional measures Features report distribution via email, HTML, Excel or .pdf 	<ul style="list-style-type: none"> Improves planner efficiency Increases data visibility Supports one number system Reduces implementation cost
Enterprise Architecture	<ul style="list-style-type: none"> Offers configurable common user interface and role-based security Features highly scalable architecture and extensible data model Provides integration templates for major ERP solutions Provides configurable event-driven exception monitoring and escalation paths for collaborative resolution 	<ul style="list-style-type: none"> Improves planner efficiency Minimizes customizations Reduces TCO

Supply Chain Planning & Optimization

“JDA’s products provided clear financial and operating results while improving our capability and capacity. It has enabled us to take on the future. If you’re not enabled, you start missing opportunities by hurting customer service levels on one end and product obsolescence on the other.”

Brett Frankenberg
*Director of Supply Chain Planning,
Coca-Cola Bottling Company Consolidated*



About JDA Software Group, Inc.

JDA® Software Group, Inc. (NASDAQ: JDAS), The Supply Chain Company®, is the leading provider of innovative supply chain management, merchandising and pricing excellence solutions worldwide. JDA empowers more than 6,000 companies of all sizes to make optimal decisions that improve profitability and achieve real results in the discrete and process manufacturing, wholesale distribution, transportation, retail and services industries. With an integrated solutions offering that spans the entire supply chain from materials to the consumer, JDA leverages the powerful heritage and knowledge capital of acquired market leaders including i2 Technologies®, Manugistics®, E3®, Intactix® and Arthur®. JDA’s multiple service options provide customers with flexible configurations, rapid time-to-value, lower total cost of ownership and 24/7 functional and technical support and expertise.

Now you can be among the JDA Supply Chain Planning & Optimization customers reporting outstanding results and an unsurpassed customer experience with the following components:

- Analytics
- Collaborate
- Demand
- Demand Classification
- Demand Decomposition
- Dynamic Demand Response
- Fulfillment
- Inventory Policy Optimization
- Markdown Optimization
- Market Manager
- Master Planning
- Monitor
- Order Promising
- Promotions Management
- Reporting
- Strategy
- Supply

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