

# JD EDWARDS ENTERPRISEONE STRATEGIC NETWORK OPTIMIZATION<sup>1</sup>



## KEY BENEFITS

- Graphical analysis of global supply chain networks including geographical mapping in real-time
- Capital asset management heuristics
- Multi-currency tracking and currency exchange rates
- Heuristic solution quality for unique business processes such as batch sizes and minimum run lengths
- Multi-period, user defined time horizons
- Tactical sourcing
- Crisis situation management
- Capacity allocations
- Pre-build analysis
- Strategic positioning for long term, high-level supply chain planning.
- Optimize flow of materials feasible across the globe and cost optimized.
- XML support
- True Microsoft Windows look and feel design with intuitive graphical displays
- Fast solver times
- Detailed manufacturing representation
- Optimally balance long-term demand with supply and capacity
- Evaluate existing supply sources
- Evaluate outsourcing opportunities
- Evaluate new markets before investment
- Improve budget and contingency planning
- Two products available: full function Strategic or core value Tactical modules

*A strategic planning tool for evaluating long-range decisions over a multi-period, user-defined time horizon. It helps optimize supply chain networks, handle crisis situations, and plan tactical sourcing, pre-builds, or capacity allocations. Features include extensive visualization and reporting capabilities, unique capital asset management heuristics and currency exchange rates.*

## The Issue: An Optimized Supply Chain

Developing enterprise-wide strategic plans that are both optimal and realistic is a challenge for any organization. To be truly competitive, your supply chain — from raw materials through end products — must be optimized. Everyday you need:

- To make strategic and tactical decisions regarding the best course of action to meet customer demand;
- The optimal quantities of inventory to keep costs at a minimum while maximizing customer service levels;
- The best procurement, manufacturing, and distribution plans for a new product line;
- To know where to locate your plants, warehouses, and other critical resources;
- To identify when and where to open and/or close facilities and production lines;

And with the today's Internet infrastructure, you want the benefits of continuous, real-time supply chain collaboration via the web.

## The Solution: Globally Visualization Your Supply Chains in Real Time

Oracle's JD Edwards EnterpriseOne Strategic Network Optimization is a flexible tool for use in supply chain network design and the creation of strategic sourcing and inventory build plans. It is used to establish and maintain a network that synchronizes the flow of materials and produces solutions that are globally feasible and cost optimal. It is a tool that reinforces the strategic positioning to aid users in long-term, high-level supply chain planning. It also helps simplify data management and analysis across your enterprise.

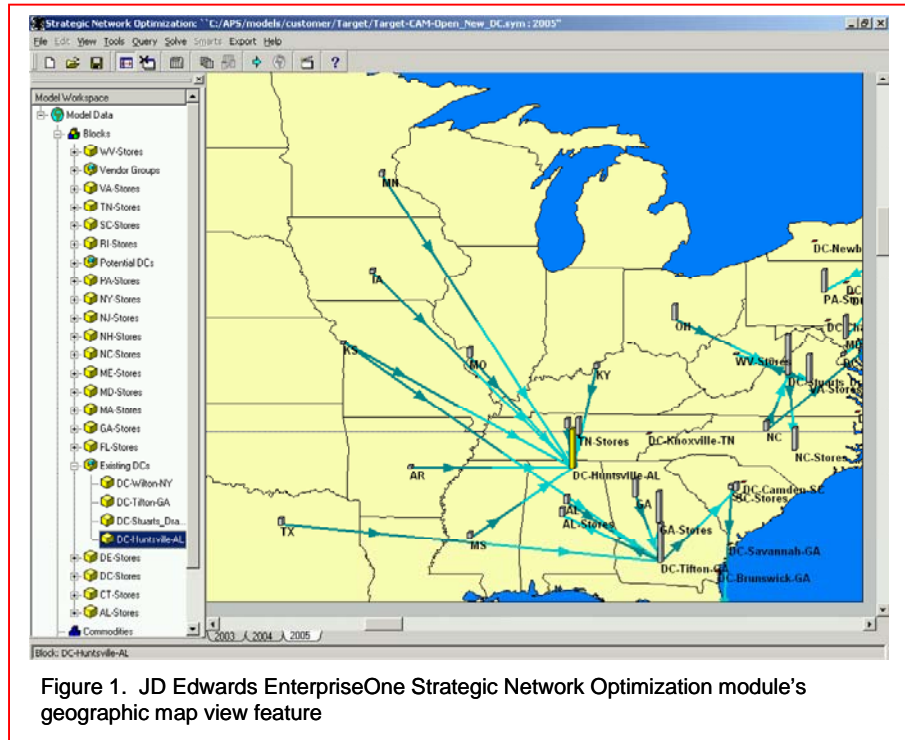
In addition, special "what-if" analyses allow you to see how changes in your processes could affect your operations. Should you decided to make significant changes in your supply chain (open or close sites, change suppliers, or even outsource portions of your production) JD Edwards EnterpriseOne Strategic Network Optimization can rapidly create revised plans; with its enhanced report writing and geographical mapping capabilities, you can create advanced reports and graphically represent your plans and the supply chain

<sup>1</sup> This data also sheet covers JD Edwards EnterpriseOne Tactical Network Optimization module which offers a subset of functionality.

network, significantly improving decision support.

### Geographic Map View of Your Supply Chain

The geographic (map) view is a friendly perspective of your supply chain. Most supply chain planning models contain tens of thousands of nodes and arcs and trying to represent this detail in a view is difficult. The generated map is a very intuitive view of the supply



chain and requires minimal interpretation. For example, the color transition from dark to light on an arc indicates the flow of product from one location to another.

Similarly the view option “fat nodes” turns on block node scaling to indicate the amount of relative product flow leaving a location. Another effective way to convey the same information is to use relative height. Tall nodes give an almost 3D perspective of data and enhance the overall visualization of location information. When placing the mouse pointer over an arc the amount of flow between locations appears in a tool tip.

### Model Workspace

JD Edwards EnterpriseOne Strategic Network Optimization utilizes a model workspace with a tree structure that supports superior:

- **Model comprehension.** Trees provide additional model structure, whereas our existing lists do not provide an adequate framework to understand the model at-a-glance.
- **Model navigation.** The ability to locate, select, query and perform other actions on objects from a model tree shortens the learning curve for new users.
- **Consistency among advanced planning applications.** Creating a similar look and feel to other advanced planning applications with object trees including JD Edwards

EnterpriseOne Production Scheduling, Production and Distribution Planning and Order Promising modules gives a cohesive image to everyone in your supply chain planning process.

### **SCBM Connector**

A core component of JD Edwards EnterpriseOne Strategic Network Optimizer is the integrated support for JD Edwards EnterpriseOne Supply Chain Business Modeler (SCBM). It provides a common repository for all supply chain planning data so that you can use data from multiple ERP instances to provide global planning. This also allows you to leverage one integration solution across all JD Edwards EnterpriseOne ERP offerings and unifies all available data while it augments missing data that is typically not part of any ERP system (e.g. detailed resource calendars) and supports model data aggregation (e.g. bucketed availability of resource capacity).

### **Return on Investment: High Profits, Low Costs**

In today's highly competitive business environment you can't afford to have an unresponsive supply chain. When changes occur, real-time alerts are generated along your supply chain so that capacity constraints, shortages in inventory, and requirements for additional production or distribution facilities are quickly communicated to the right decision makers, dramatically compressing planning cycles. JD Edwards EnterpriseOne Strategic Network Optimization helps you generate the highest profits at the lowest cost for your business.

### **JD Edwards EnterpriseOne Tactical Network Optimization**

Oracle's JD Edwards EnterpriseOne Tactical Network Optimization offers a dynamic subset of the functionality found in JD Edwards EnterpriseOne Strategic Network Optimization. This module is a tactical planning tool for looking at medium-range decisions over a multi-period user defined time horizon through planning and identification of tactical sourcing, pre-builds, and capacity allocations with extensive visualization and reporting capabilities.

### **Feature/Function Highlights**

- Global currency tables supporting fixed costs, storage costs, startup costs, and shutdown benefits.
- Inflation rate modeling with aggregate inflation per period calculations.
- Scenario manager for what-if dynamic cost comparisons.
- Profit modeling.
- JD Edwards EnterpriseOne Supply Chain Business Modeler for a common repository for all supply chain planning data from multiple ERP instances for global planning.
- Map views for geographical supply chain network depictions with legends, supply flow arcs, and nodal modeling (including unused and lonely states).

- Query filters for multi-periods.
- Detailed cost reports using positive value profit models.
- Solver using batch, branch and bound heuristics, and dingle and dual linear programming (LP).
- Native Microsoft Windows with true look and feel design.
- Data trees with model navigation for improved model comprehension.
- Incoming and outgoing XML support.

### **Solution Integration**

- JD Edwards EnterpriseOne Supply Chain Manufacturing product line
  - Production Scheduling module
  - Production and Distribution Planning module
  - Order Promising module

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