ADVANCED SUPPLY CHAIN PLANNING

The process industry has been undergoing dramatic changes over the past two decades due to globalization, industry consolidation, intensifying competition, and deteriorating margins. Companies in the process industry need supply chain systems that can deliver a competitive advantage through improved profitability, market share, and customer responsiveness.

Triple Point Supply Chain Optimization (SCO) is designed to help process manufacturing companies overcome these challenges and is revolutionizing how these firms plan and manage their supply chains. Triple Point SCO is proven to help process manufacturers improve profitability, competitiveness, and customer relations in today’s increasingly complex business environment.

Designed for Process Manufacturing Companies

Triple Point SCO was designed from the ground up to meet the specific requirements of process manufacturing companies. The solution includes a comprehensive range of decision support and optimization applications that support a broad set of supply chain business goals that help companies:

- Gain global supply chain visibility
- Improve forecast accuracy
- Reduce inventory levels
- Raise customer service levels
- Optimize production scheduling
- Facilitate collaborative S&OP
- Support financial planning
- Provide executive KPI analysis

END-TO-END SUPPLY CHAIN OPTIMIZATION

Triple Point Supply Chain Optimization optimizes every aspect of your process supply chain — from demand management and distribution planning through production scheduling and sourcing.

Available solutions include:

- **Triple Point for Demand Planning & Collaboration**
  
  Triple Point for Demand Planning & Collaboration creates highly accurate sales forecasts that drive improved efficiency in a variety of business processes including supply/demand balancing, sales and operations planning (S&OP), and production scheduling. It employs both a statistical and collaborative forecasting process that incorporates internal and customer input to create the most precise forecast possible. This results in higher customer service levels and lower inventory levels by enabling optimized production and shipping decisions based on accurate data.

“Our selection of the Triple Point solution was greatly influenced by its ability to quickly and easily model the complexities of process supply chains, provide visual displays, and deliver powerful optimization capabilities.”

View inventory projections, order status, planned production, and more on the intuitive Supply Chain Monitor.
“We selected the Triple Point Supply Chain Optimization solution based on its track record within the process industry. It’s a targeted solution that mirrors our planning needs, and Triple Point’s team brings a knowledge of industry best practices that we consider every bit as important as the software.”

Triple Point for Supply Chain Planning & Scheduling

Tripoint for Supply Chain Planning & Scheduling (SCPS) optimizes and streamlines the supply chain planning process with powerful procurement scheduling, production scheduling, and replenishment planning functionality. Triple Point SCPS includes a highly graphical, intuitive Supply Chain Monitor, which analyzes all interactions between current inventory levels, orders, sales forecasts, purchases, and production schedules to create a visual simulation of your supply chain inventory positions over any desired planning horizon.

- **Procurement Scheduling**: Create procurement requirements for all raw materials as production schedules are developed. Calculate daily time-phased raw material needs and recommended purchase/procurement orders, integrate raw material planning with production scheduling, receive exception notifications of pending intermediate and raw material stockouts, and more.

- **Production Scheduling**: Leverage robust simulation capabilities that create optimized candidate schedules by enabling modification of key operating parameters such as product transitions, equipment rates, and yield values.

- **Replenishment Planning**: Use product formulations and replenishment algorithms to compute and recommend just-in-time replenishment orders for raw materials that consider the lead time and typical lot size from each supplier. Raw material inventories and replenishment orders are automatically linked to a supply chain simulator so that if production schedule changes render raw material plans infeasible, optimal replenishment will be automatically re-planned.

Schedule changes are automatically incorporated into the Supply Chain Monitor, allowing schedulers to immediately determine feasibility and effectiveness.

TRIPLE POINT SUPPLY CHAIN OPTIMIZATION CUSTOMERS INCLUDE:

- Arkema Inc.
- Celanese
- Ergon Refining
- FMC Corp.
- Honam Petrochemical
- ICL
- Indian Oil
- INEOS
- Kraton Performance Polymers
- Lonza
- LyondellBasell
- Orion Engineered Carbons
- Oxea Chemicals
- PTT Global Chemical
- Sasol Oil
- Solvay

Triple Point SCPS also calculates safety stock recommendations based on targeted customer service levels, and compares optimum inventory levels to anticipated inventory levels based on current supply chain management policies. In addition, the solution provides highly accurate available-to-promise capabilities by synthesizing inventory, production schedules, orders, and forecasts to compute availability for any moment in the future.
Triple Point for Sales & Operations Planning

Triple Point for Sales & Operations Planning (S&OP) is the most comprehensive and advanced solution for creating an optimized enterprise sales and operations plan driving high performance and maximum profitability. Triple Point S&OP supports a collaborative planning environment that empowers companies to understand the true profitability implications of plan options by fully integrating operational planning and financial planning. Product demand, inventory targets, manufacturing capacities, and supply chain constraints guide the creation of highly accurate plans. A sophisticated optimization engine provides a means of rapidly determining not only what portion of a forecast is feasible to produce, but what product mix is most profitable to produce.

Triple Point S&OP includes advanced supply chain modeling, collaboration, reporting, and analysis tools for smarter, faster decisions. Plans can be easily updated at any time in response to dynamic market conditions while maintaining a continual comparison of actual performance against plan.

### OPTIONAL TRIPLE POINT MODULES FOR ENHANCED PRODUCT FUNCTIONALITY

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- **Management Dashboard**: Enables smarter, faster decision making by delivering real-time supply chain data via a graphical Web-based interface. Supports trend analysis, regression analysis, and spot reporting. Advanced, interactive reports provide alerts for outliers, urgent issues, and opportunities.

- **Demand Analytics**: Leverages a multi-tier tournament of forecasting models to determine the best fit and most accurate initial forecast. This seeds the process with a highly accurate baseline forecast that is adjusted by the demand planning team as they collaboratively drive toward the final consensus forecast.

- **Systems Connect**: Supports two-way, periodic, or real-time interfaces with leading ERP, MES, and CRM systems.

- **Financial Optimization**: Enables maximum profitability by suggesting plan changes that will result in optimized financials.

- **Dynamic Schedule Optimization**: Ascertain optimal production plans in cyclical production environments. Determines ideal cycle characteristics such as cycle length, product sequence, and frequency, and considers variable production costs such as product-to-product transitions and off-grade production.

- **Distribution Scheduling**: Streamlines operations and minimizes logistics penalties by modeling the finite capacity constraints involved in supply chain logistics including loading/unloading, vessels, pipelines, compartments, railcars, barges, trucks, and international marine cargoes.

Compare optimum inventory levels to anticipated inventory levels based on current supply chain management policies.
“The combination of Triple Point Supply Chain Optimization integrated with our SAP® ERP system provides a powerful solution not available in any other tool.”

TRIPLE POINT SUPPLY CHAIN OPTIMIZATION SOLUTIONS DELIVER MEASURABLE RESULTS

Triple Point Supply Chain Optimization improves profitability, increases market share, and enhances customer responsiveness by delivering advanced technology to address the challenges unique to managing complex process industry supply chains. By leveraging Triple Point SCO, leading process manufacturing companies have achieved measurable results, including:

- Operating at 20% lower inventory levels while maintaining service levels
- Improving forecast accuracy by reducing error levels 50%
- Reducing the scheduling cycle from days to hours

Triple Point SCO singularly delivers the competitive edge that process manufacturing companies need to stay ahead of the curve in today’s complex and unpredictable business environment.

HOW TO GET STARTED

To learn how Triple Point Supply Chain Optimization can benefit your organization, please email us at info@tpt.com, call us at +1.203.291.7979, or visit us on the Web at www.tpt.com.