

# InSync Advanced Planning Solution

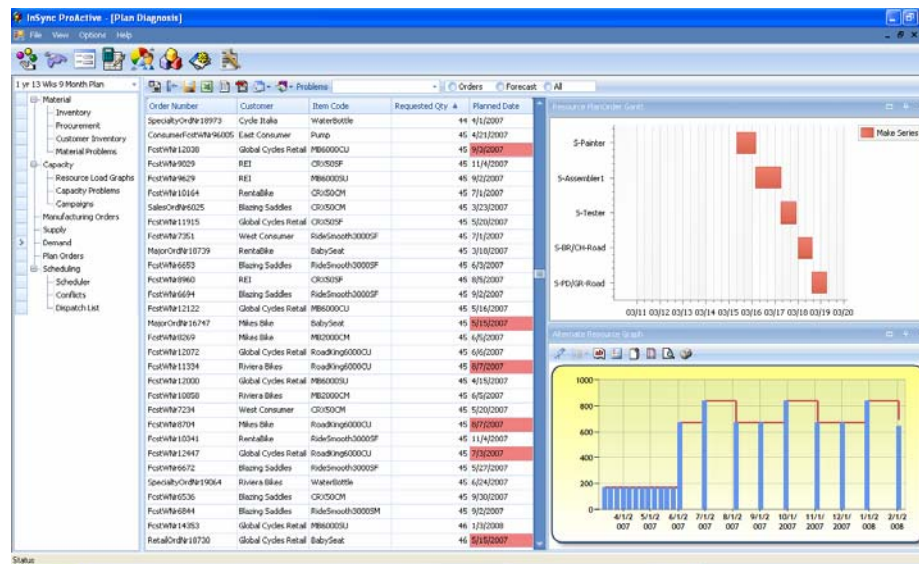
## Benefits Summary

- Synchronize decision-making across the entire organization with multi-dimensional planning in a single system
- Accelerate planning cycle times through rapid, exception-based re-planning and closed-loop integration with Execution Systems
- Reduce capital expense and increase manufacturing throughput by simultaneously managing material, capacity and demand constraints
- Reduce working, finished goods and obsolete inventories while improving order fulfillment rates
- Avoid supply chain risk by understanding the operational and financial implications of planning decisions

**InSync Advanced Planning Solution (iPlanner™)** delivers a comprehensive solution for planning and decision support to meet your evolving supply chain requirements, with the integration, speed, and usability you demand at all levels of your organization. iPlanner offers a multi-dimensional representation of your complex supply chain, covering every location, item, resource and partner in your extended supply chain, across the entire planning time horizon. Individual users finally have the best of both worlds: the personalization, flexibility, and reporting of a spreadsheet combined with the power and speed of a model with advanced algorithms and contextual problem identification. You can define specific business rules to identify exceptions, drill immediately into a specific root cause analysis, and immediately resolve those problems with confidence.

Every functional module shares a familiar look and feel, sophisticated reporting, an extensible data model, and game-changing speed. InSync's proven implementation approach drives immediate, measurable financial impact. We will work with your organization to identify the highest impact short-term project scope. Over time, you can expand your use of iPlanner™ across your organization and operations with minimal effort, because each module shares the same database, data model, application platform, and look and feel.

**Strategy and Risk Management** - concurrently evaluate the operational impact and financial risk of multiple supply chain scenarios with different supply, capacity, inventory and demand models. Anticipate major disruptions in capacity or longer-term demand risk with full understanding of the strategic impact of sourcing strategies, channel development, and product introductions.



From this user-defined view, a planner can identify late orders (in red) and drill down to review a Gantt chart and detailed capacity availability for each operation's primary and alternate resources.

**Sales and Operations Planning** - aggregate multiple sources of information into a single model with both realistic representation and rapid plan execution to enable real-time, cross-functional decision-making, "what if" simulation, drill-down into operational detail, and closed-loop execution. Make shared decisions confidently together, understanding the impact of tradeoffs and the ability to execute.

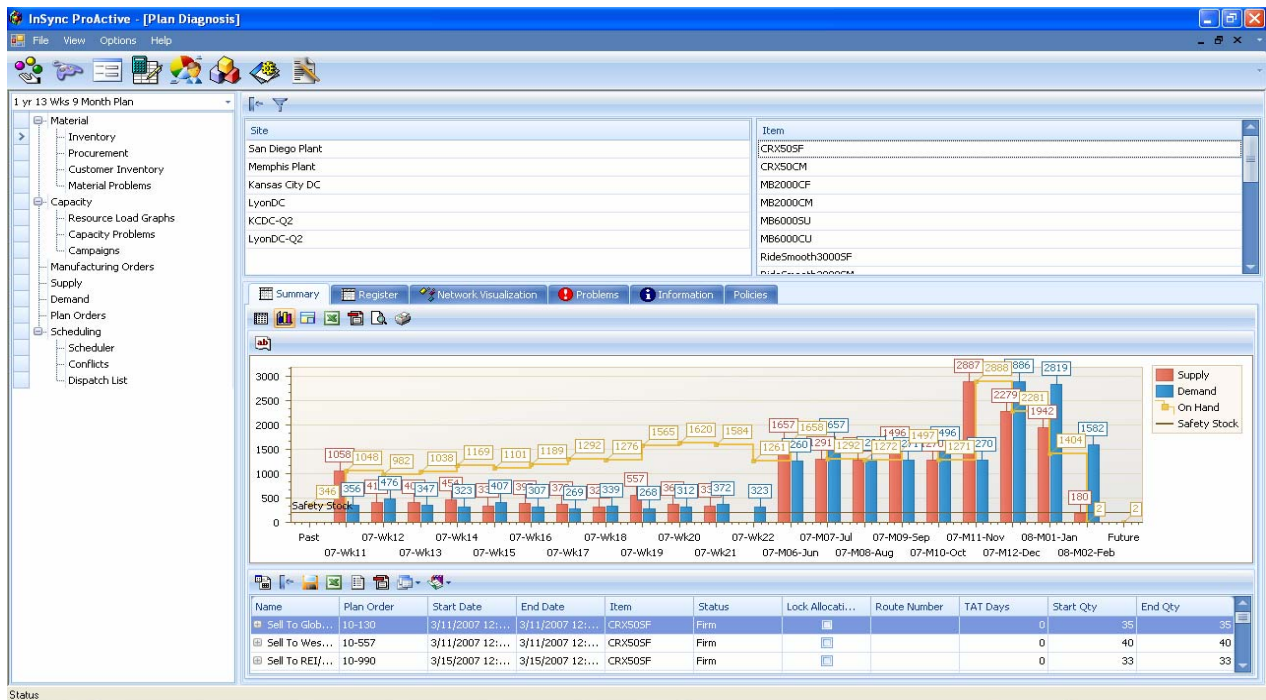
**Supply Chain Planning** - manage the deployment of material and capacity across multi-tier supply chains, including outsourced manufacturing and channel partners, based on anticipated demand. Proactively manage projected problems in the operational time horizon, drawing from all available options across the extended supply chain.

**Order Management** - assign material and capacity to customer orders based on sophisticated prioritization and allocation rules. Transform your relationship with channel partners and customers to capture opportunities for improved product margins, rapid product introductions, profitable product mix, effective promotions, and new sales or distribution channels.

**Factory Planning** - improve production operations based on unique, simultaneous evaluation of material and capacity constraints. Simultaneously resolve those constraints with full visibility into each impacted resource and expected problem. Incorporate lean manufacturing principles and cell-based manufacturing models.

**Sequencing** - sequence discrete and re-entrant flow production resources based on user-defined rules for setup, changeover, utilization, and priority. Utilize sophisticated algorithms to handle a variety of scheduling and machine capacity constraints.

Benefit	Enabling Functionality
Intuitive and Familiar	<ul style="list-style-type: none"> <li>✓ Familiar Microsoft Office look and feel for navigation, modeling, planning, and reporting</li> <li>✓ Integration with Microsoft Excel for both data maintenance and reporting</li> <li>✓ Visualization tool provides graphical representation of extended supply chain processes, including exception management</li> </ul>
Multi-Dimensional Representation	<ul style="list-style-type: none"> <li>✓ Flexible hierarchies and multiple dimensions support variable time horizons, policies, constraints, multilevel BOM, routings, and resource types</li> <li>✓ Multiple, user-defined hierarchies enable reporting from any perspective</li> </ul>
Simultaneous Material and Capacity Planning	<ul style="list-style-type: none"> <li>✓ Unique planning algorithms allow simultaneous consideration of material and capacity constraints, which guarantees both feasible and optimal results</li> <li>✓ Single system for collaborative planning and analysis across all levels of the organization and all partners in the supply chain</li> </ul>
Order Planning and Allocation Management	<ul style="list-style-type: none"> <li>✓ Fix the pegging of material and/or capacity to specific orders across all levels of the supply chain</li> <li>✓ Reserve material and capacity for demand from long-term forecasts through near-term customer orders, based on priority, policy, or hierarchy</li> </ul>
Rules-Based Optimization	<ul style="list-style-type: none"> <li>✓ Flexible, granular, objective-driven policies control the trade-offs between cost and service levels</li> <li>✓ Full visibility into the results of each planning run</li> <li>✓ Open interfaces for integrating custom solvers and/or schedulers</li> </ul>
Context-Based Decision Support	<ul style="list-style-type: none"> <li>✓ Drill down and drill around to understand the full context for each decision</li> <li>✓ Compare multiple, concurrent plans and scenarios to evaluate the operational and financial implications</li> <li>✓ Select different demand, supply and capacity forecasts for each period in the plan</li> </ul>
Comprehensive Analytical Tools	<ul style="list-style-type: none"> <li>✓ Real-time, role-based analysis and exception management</li> <li>✓ Broad selection of analytical tools including alerts, exception reports, ad hoc queries, trend analysis and scenario comparison</li> <li>✓ Support for collaborative portals and messaging</li> </ul>
High-Performance	<ul style="list-style-type: none"> <li>✓ Efficient, binary data representation dramatically reduces planning cycle time</li> <li>✓ Speed enables new decision-making processes, such as collaborative scenario comparison during planning meetings</li> </ul>
Simplified Data Maintenance and Integration	<ul style="list-style-type: none"> <li>✓ Single data model across all functional modules</li> <li>✓ Innovative architecture simplifies adding custom attributes, increasing plan detail and integrating with external systems</li> </ul>
Reduced Total Cost of Ownership	<ul style="list-style-type: none"> <li>✓ Leverage existing Microsoft investments</li> <li>✓ Familiar, flexible .Net architecture</li> <li>✓ Optimized for SQL Server 2005</li> </ul>



Plan Diagnostic supports a multidimensional view of the simultaneous impacts of material, capacity and demand constraints. For example, users can drill down to from a list of inventory problems to view the projected inventory levels by location, including safety stock and replenishments.