Logistics-aware planning

Unify planning and logistics execution with Blue Yonder

The challenge: Disconnected planning and logistics

To compete effectively, supply chain plans must be perfectly aligned with logistics realities. Without this alignment, your most carefully crafted strategies fail at execution, leading to missed deliveries, higher transportation costs, and failures to meet service-level agreements (SLAs), eroding margins and customer trust. Planners consistently face three primary challenges:

1. Siloed planning and execution: Disconnected systems and data create blind spots, causing plans to overlook logistics constraints like lane capacity, carrier availability, and delivery schedules—making them difficult to execute.

2. Lack of real-time visibility: Slow information flow between planning and logistics prevents timely responses to disruptions, delaying decisions and reducing agility in changing market conditions.

3. Inefficient resource utilization: Misalignment between planning and logistics results in underutilized assets, unnecessary transport legs, higher costs, and missed opportunities to achieve cost- and sustainability-related goals.

Blue Yonder provides the interoperability needed to solveaddress these challenges and unify your supply chain from end to end-to-end.

The Blue Yonder solution: Logistics-aware planning

Blue Yonder ensures that logistics capacity planning is both demand-driven and dynamic, allowing it to change as market conditions evolve in the short and mid-term. By aligning the supply chain planning and

Key Benefits

- Create executable plans
- Improve decision-making speed and precision
- Increase efficiency and productivit
- Optimize financial and operational outcomes
- Enhance agility and responsiveness

logistics organizations around shared data on volumes and service capabilities, it creates a single, cohesive operational strategy.

Logistics-aware planning automatically reflects critical logistics constraints—such as lane-level capacity restrictions, carrier availability, and delivery schedules—within the planning solution. This ensures that all replenishment and distribution plans are executable from the start. Simultaneously, real-time shipment updates from the TMS are fed back into the planning solution, enabling the timely resolution of any fulfillment issues. A key feature is the three-dimensional load building service, which generates optimized containerization plans to maximize space utilization and achieve full truckloads.

Blue Yonder's powerful interoperability capabilities eliminate information latency and enable unified decision-making, allowing your planning and logistics domains to operate as one.

Core features

- Interoperability from planning to execution
- Dynamic, demand-driven capacity planning
- Constraint-aware plan generation
- Real-time shipment updates
- Intelligent load building service
- Scenario-driven collaboration

Capability offering

Fully executable plans

Reflect real-world logistics constraints like lane capacity and delivery schedules directly in the planning process. This results in replenishment and distribution plans that are immediately actionable.

Maximized asset utilization

Create three-dimensional containerization plans that maximize and optimize shipping space. This results in fuller, more efficient truckloads and lower transportation costs.

Unified, agile decision-making

Eliminate information latency between systems for unified, timely decision-making. Respond immediately to real-time shipment updates across both planning and logistics.

Unlock your supply chain's full potential with Blue Yonder Services.

Partner with Blue Yonder Professional Services to modernize your supply chain with Strategic Advisory, Implementation Services and Continuous Optimization, enabling 30% faster time to value, lower risk and a resilient, scalable supply chain. On-going premium support and training ensures you make the most of your investment for long-term success and growth.

Learn more about how we can help you achieve these results.

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