



Transforming Omni-Channel Logistics

Driving real-time decisioning, visibility, efficiency, and agility for LSPs

Business context

Logistics Service Providers (LSPs) must accommodate increasing client demands in support of omni-channel fulfillment, which requires greater speed, heightened inventory availability, and seamless returns. The need to manage distributed inventory, scale warehouse operations, and address diverse fulfillment needs strains LSP resources and complicates service-level commitments. Pressures from rising operations costs, the limits from running fragmented systems, and the inherent inefficiencies of reverse logistics are making profitability untenable.

Addressing these demands requires scalable, data-driven approaches that synchronize inventory, warehousing, transportation, yard, and returns operations, enabling real-time decision-making, least-cost order fulfillment across distributed networks, and the flexibility to adapt in a rapidly evolving logistics landscape.

The Blue Yonder LSP solutions

Blue Yonder's AI-driven solutions on a unified, scalable platform enable LSPs to optimize omni-channel commerce, fulfillment, logistics execution, and returns management. LSPs can now handle multichannel order flows, synchronize inventory in real-time, and efficiently manage high-volume returns. Dynamic order sequencing, reallocation rules, inventory rebalancing, increased labor utilization, execution speed, and SLA performance are made possible by real-time analytics and proactive decision-making support.

Functionally rich and highly extensible solutions enable LSPs to extend their end-to-end solutions to meet their clients' specific and evolving needs, thereby delivering increased client value while lowering the cost of ownership and improving self-sufficiency.



Key benefits

- Intelligent Fulfillment Sourcing and Rebalancing ensures precise inventory alignment, faster delivery, and seamless returns, exceeding client expectations
- Advanced Warehouse and Yard Execution integrates AI-driven orchestration to synchronize workflows across inventory, warehousing, and transportation.
- Highly Configurable Warehousing provides tools that adapt to evolving client needs, ensuring faster deployment and scalability without heavy customizations.
- Load Building and Transportation Optimization minimizes operational costs by leveraging intelligent simulations and resource allocation.
- Returns Management optimizes returns with intelligent routing and guided dispositioning, ensuring cost-effective, sustainable operations while meeting SLA compliance.



Why logistics leaders choose Blue Yonder

- Improve SLA achievement by **12%**
- Reduce fulfillment and freight costs by **10%**
- Improve profitability of reverse logistics by **30%**

Capability offerings

Intelligent Fulfillment Sourcing and Rebalancing

Optimize order sourcing that balance cost, speed, and reliability. Leverage AI/ML algorithms to optimize order sourcing based on cost, location, speed, and profitability. Build customer trust by providing reliable ‘order-by, get-by’ dates to ensure accurate promising.

Highly Extensible, Configurable Warehousing

Flexible solutions tailored to dynamic fulfillment needs. Delivers seamless, industry-leading inventory and labor workflows to meet today’s dynamic fulfillment needs. Enables high extensibility and configurability to function with complimentary client solutions to accelerate time-to-value without needing customizations and expensive resources.

Advanced Warehouse and Yard Execution

Maximize throughput with dynamic adaptability. Delivers AI-driven labor and robotic tasking that intelligently orchestrates warehouse tasks according to shifting priorities as conditions change, while maximizing overall throughput. Reduces delay with AI-based yard automation.

Load Building and Transportation Optimization

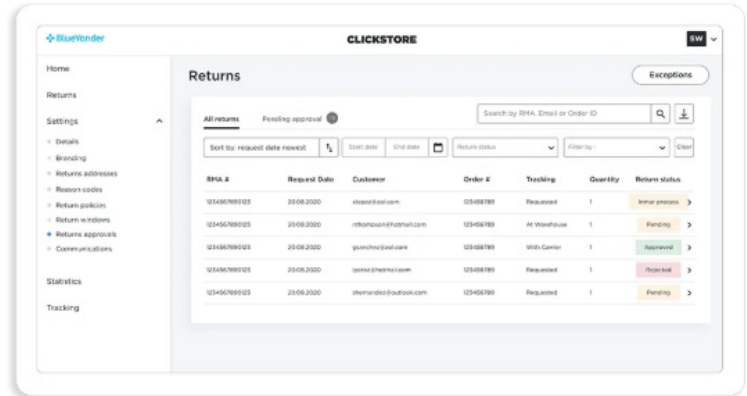
Drive cost savings and delivery efficiency. Identifies cost-effective mode conversions and creates shipment consolidation opportunities using Blue Yonder’s advanced transportation optimization algorithms and intelligent simulations to exceed customer expectations.

Inventory 360

Balance inventory and fulfill orders with precision. Optimizes inventory positioning across multi-node networks, reducing imbalances, and enhancing order fulfillment rates while balancing costs and service levels. Get real-time, enterprise/location-wide inventory visibility.

Reverse Logistics - Returns Management

Streamline returns processes with intelligent routing and real-time visibility. Accelerate reverse logistics by integrating with warehouse and order management systems to reduce delays, minimize waste, and optimize resource utilization. This ensures improved SLA compliance, cost efficiency, and sustainable operations, addressing the growing demand for seamless returns.



Key features

- **Intelligent Fulfillment Sourcing leverages predictive analytics** to determine optimal sourcing locations, balancing cost, speed, and reliability.
- **Configurable Warehousing offers adaptable workflows and modular tools**, enabling faster scalability and seamless integration with client systems.
- **Advanced Warehouse and Yard Execution integrates AI** to manage labor and robotics simultaneously, ensuring smooth transitions between manual and automated tasks.
- **Load Building and Transportation Optimization supports 3D load planning, dynamic route optimization, and carbon-efficient logistics** for superior delivery efficiency.
- **Returns Management streamlines reverse logistics with guided grading, dispositioning, and sustainability-focused processing** to enhance operational performance.