



Synchronizing finished vehicle logistics

AI-powered planning, execution and collaboration across the extended network

Business context and challenge

Finished vehicle logistics is under growing pressure. Rising transportation costs, tighter delivery expectations, and more complex yard, port, rail, and carrier networks are making it harder for automotive organizations to move vehicles efficiently from plant gate to dealer delivery. At the same time, OEMs must manage constant change across production schedules, carrier capacity, regional disruptions, and shifting dealer demand, all while protecting margins and maintaining service levels.

Many finished vehicle logistics operations still rely on disconnected planning and execution systems, manual coordination, and delayed status updates across the network. These gaps limit end-to-end visibility, slow decision-making, and make it difficult to respond when vehicles dwell too long in yards, miss planned handoffs, or face delays at ports, rail ramps, or final-mile delivery. The result is higher transportation and labor costs, lower throughput, unreliable ETAs, and reduced confidence from dealers and customers.

To compete in this environment, automotive leaders need a more connected approach to finished vehicle logistics. They need integrated planning and execution, real-time visibility across the full vehicle journey, and AI-driven insights that help teams predict delays, improve coordination, reduce dwell time, and make faster, more confident decisions across yard, port, rail, carrier, and dealer operations.



Blue Yonder is the #1 supplier of supply chain planning in the automotive industry, capturing over one-third of the market share.

Blue Yonder delivers:

- **20%** reduction in working capital
- **30%** improvement in service levels
- **25%** lower transportation and labor costs

Key Benefits

- Faster response to demand volatility across EV, hybrid and ICE programs.
- Lower logistics and production costs through synchronized execution.
- Greater agility for configure-to-order and personalized production.
- Early risk detection with multi-tier supplier visibility.
- Built-in compliance and traceability for sustainability mandates.
- Improved service levels with less inventory and working capital.
- Stronger supplier collaboration and resilience during EV transition.

The Blue Yonder solution

Blue Yonder helps automotive organizations manage finished vehicle logistics with greater speed, precision, and control. Built for complex, high-volume networks, it connects planning, execution, and collaboration across yards, ports, rail providers, carriers, and dealer delivery operations. With real-time visibility from plant gate to dealer delivery, Blue Yonder helps teams reduce dwell time, improve dealer promise accuracy, and respond faster to disruption.

By unifying transportation, yard, and logistics execution on a single cloud-native platform, Blue Yonder helps finished vehicle logistics teams coordinate the full vehicle journey with less manual effort and fewer blind spots. Teams can align outbound plans with vehicle readiness, available capacity, yard conditions, and downstream constraints. This connected approach helps reduce transportation cost, improve throughput, and support more reliable delivery performance across the network.

AI-driven insights strengthen that coordination further. Predictive ETAs, exception management, and risk sensing help teams identify likely delays before they become service failures. With a shared, real-time data model, automotive leaders can make faster decisions across Transportation Management, Yard Management, rail planning, port operations, and carrier execution. The result is a more synchronized finished vehicle logistics network that protects margins while improving service to dealers and customers.

Backed by deep automotive expertise, Blue Yonder Professional Services helps organizations accelerate time to value and drive sustained adoption. From strategy and implementation to optimization and change management, we help you modernize finished vehicle logistics operations on Blue Yonder Platform and build a more connected, resilient network.

Capabilities

Demand and Supply Planning

Confident, market-aligned forecasting

Blue Yonder enables automotive manufacturers to move beyond static forecasts with AI-driven demand sensing,

scenario planning and integrated business planning. By continuously incorporating market signals, policy shifts, channel changes and consumer behavior, planners can dynamically adjust forecasts for models, trims and options.

Integrated demand and supply planning aligns production, inventory and capacity decisions to real demand, improving forecast accuracy, reducing bias and lowering working capital. Scenario simulation allows teams to evaluate EV and ICE mix changes, supplier constraints and capacity tradeoffs before committing production plans.

Business outcomes include:

- Improved forecast accuracy and forecast value-add
- Reduced excess and obsolete inventory
- Faster response to demand volatility
- Higher service levels and production efficiency

Cognitive Solutions for execution

Unified logistics for lower total cost of ownership

Disconnected execution systems drive missed delivery slots, premium freight and poor plan adherence. Blue Yonder synchronizes planning with execution by connecting transportation, warehouse and order management with upstream plans in near real time.

AI-powered orchestration optimizes routing, appointment scheduling, yard and warehouse operations, labor and capacity allocation, and transport execution. Predictive ETAs and continuous replanning improve coordination across suppliers, plants and distribution networks, turning logistics from a reactive cost center into a competitive advantage.

Business outcomes include:

- Reduced expediting and transportation costs
- Improved on-time, in-full delivery performance
- Better adherence to production and delivery plans
- Greater execution visibility and control

Multi-tier visibility and collaboration

Built-in compliance, transparency and resilience

Automotive supply chains extend far beyond Tier 1, yet many organizations lack visibility into upstream inventory,

capacity, compliance and risk. Blue Yonder delivers multi-tier visibility and collaboration through a connected digital network that links OEMs, suppliers, logistics partners and customers.

Real-time insights into inventory, capacity, supplier health and sustainability data enable proactive risk detection, traceability and compliance. AI-driven alerts, recommendations and workflows help teams mitigate disruptions early, ensure audit readiness and reduce manual data chasing.

Business outcomes include:

- Earlier risk detection and fewer production shutdowns
- Built-in traceability for sustainability and regulatory compliance
- Reduced stockouts and noncompliance risk
- Stronger collaboration across the extended supply network

Production planning and scheduling

Agile, demand-driven production

As consumers demand customization and faster delivery, automotive manufacturers must move beyond rigid make-to-stock models. Blue Yonder enables agile, configure-to-order and hybrid push-pull production with advanced planning and scheduling capabilities.

Order slotting, order sequencing and detailed scheduling dynamically align labor, machines and materials to real-time demand and constraints. Manufacturers can optimize model mix, reduce changeovers, increase throughput and respond faster to shifts across EV, hybrid and ICE programs.

Business outcomes include:

- Reduced inventory and freed-up working capital
- Higher throughput and production efficiency
- Shorter lead times and improved customer satisfaction
- Better alignment of production with true consumer demand

Why Blue Yonder

Blue Yonder uniquely combines AI-driven planning, real-time execution and multi-tier collaboration on a single, cloud-native platform built for automotive complexity. Recognized as a long-standing leader by Gartner and trusted by more than half of the world's automotive manufacturers, Blue Yonder delivers the scale, intelligence and resilience the industry demands.

With deep automotive expertise and lifecycle support from Blue Yonder Professional Services, manufacturers achieve faster time to value, sustained performance improvement and lasting transformation across their supply chains.

Key solutions:

- Integrated Business Planning
- Demand and Supply Planning
- Production Planning and Scheduling
- Inventory Optimization
- Order Promising and Optimization
- Network Design and Utilization
- Allocation and Replenishment
- Order Management and Commerce
- Supply Chain Command Center
- Sustainable Supply Chain Manager
- Transportation Management Solution (TMS)
- Warehouse Management Solution (WMS)
- Warehouse Labor Management (WLM)
- Order Management Solution (OMS)
- Returns Management Solution (RMS)
- Blue Yonder Network
- Blue Yonder Platform