

Integrated Demand & Supply Planning for Automotive & Industrial Suppliers

A unified and integrated enterprise plan is now the goal to increase speed, improve customer service and agility to power growth and manage volatility

Business context

Automotive and Industrial suppliers have endured significant challenges stemming from global and local disruptions. Computer chips and software play an increasing role in every stage of the lifecycle of passenger, commercial and industrial vehicles; add to this the significant shift from both industry and consumers towards sustainability – presents a new set of challenges for manufacturers. The supply chain function needs to support the growth strategy as well as continue to improve on resiliency and agility of the supply chain. To do this, the first step is to create one integrated enterprise supply chain plan to increase speed, improve customer levels, increase margins and top line growth.

Blue Yonder Integrated Demand and Supply Planning

Blue Yonder provides the most innovative, scalable, flexible, and cost-effective end-to-end Integrated Demand and Supply Planning (IDSP) in the Blue Yonder Manufacturing Industry Cloud. The solution delivers one integrated enterprise plan to identify and fill value leakages, increase speed, customer service levels, and agility to manage increased disruptions and volatility. Companies gain abilities to orchestrate the extended value network, confidence in the ability to plan and respond to disruptions, and maximize business performance.

Blue Yonder has one of the industry's largest customer bases in integrated demand and supply planning and enabled planning across the entire value network, The Industry Cloud and IDSP capabilities are built for automotive and industrial suppliers with streamline solutions and over 40 pre-configured use cases by persona. Proven machine-learning algorithms, glass-box AI with clear explainability, intuitive user experience, collaboration rooms, and industry KPIs and analytics to minimize learning curve to support high growth environments and enable significant operational performance improvements.

The solution brings much faster deployments with preconfigured workflow, advanced data management and integration, and enhanced extensibility for customer-specific needs.

Real results

Improve Forecast Accuracy

10% to 20%

Inventory Reduction

10% to 15%

Improved Planner Productivity

30% to 50%

Reduced Premium Freight

40% to 75%

Increase Decision Making Speed

30% to 50%

Capability offerings

Baseline Forecasting

Accelerate the forecasting process with auto-classification of demand, data cleansing for events and outliers and demand classification, profile assignment across multiple products, locations and business.

Consensus Planning

Unified collaborative forecast aligning brand, commercial, marketing, finance & supply chain. Capture perspectives and develop scenarios to perfect planning. Connect annual operational planning (AOP), financial, and quarterly plans.

Supply Planning & Inventory

Optimize end-to-end plans to meet and exceed goals with consideration of capacity, material and logistics constraints and campaign planning. Improve plan quality significantly with predictive analytics and detailed analysis. Further optimize with industry-leading Multi-Echelon Inventory Optimization. Align manufacturing and MRP (input to finite scheduling & purchasing).

So-what, now what?

Evaluate supply chain events with impact assessment and trade-offs, root cause analysis, macro and micro scenario plans, and cross-functional alignment.

Distribution & Allocation

Conduct deployment planning with stock allocation & rebalancing. Plan loads with industry-leading multi-tiered load building that incorporates user-defined nested configurations and aggregates and splits quantities across multiple trucks to achieve maximum load efficiency. As a result, customer penalties and obsoleted stocks are minimized.

Cloud Deployment

Manufacturing Industry Cloud for Automotive and Industrial Suppliers enables much faster deployment with unprecedented flexibility to incrementally to select and deploy cloud services.

Plan quality is significantly improved with ML/AI driven analytics and insights. With advanced data management and pre-built integrations, data quality is improved also while deployment time is further reduced.

The solution minimizes planning and IT learning curve with preconfigured workflows and systems development and maintenance work with seamless upgrade. Industry cloud enables extensibility for customer-specific needs.

Key Operational Impact

- **Maximize Throughput:** Planning and optimization of entire value network.
 - **Proactive Exception Handling:** Handle disruptions much earlier and increase resiliency with real-time planning, execution, and exception management.
 - **Pre-configured Use Cases by Persona and Proven Algorithms:** Cloud-based applications with personal-based pre-configure use cases to minimize learning curve to plan supply chain end-to-end planning. Proved AI/ML-based and advanced algorithms to take proactive actions for opportunities.
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