

Blue Yonder's Fulfillment Item Forecasting

Purpose-Built E-Commerce
Inventory Planning Microservice

Finally, Fulfillment Forecasting, Purpose-Built for Omni-Channel Business

Blue Yonder's **Fulfillment Item Forecasting** is a first of its kind solution that addresses the planning challenges associated with omni-channel shopping behavior. While a modern omni-channel Order Management Services (OMS) can source e-commerce orders from anywhere in the product network, inventory is often in the wrong place for profitable and sustainable fulfillment.

Eliminate costly and inefficient practices, including shipping items across the country, splitting shipments, fulfilling from multiple locations, or fulfilling BOPIS orders from a DC and trying to deliver to the store before the customer arrives.

Market-Based Inventory Placement

- **Place inventory in the ideal locations** based on customer orders, not network availability
- Assign item forecast based on **ideal fulfillment nodes**
- Position **inventory near customers** for perfect availability

Industry Defining Expertise in Supply Chain Planning + Modern Omni-Channel Order Management

Shift from plan to experience – Forecast product demand based on where, when and how the consumer orders and would like to collect their order. Now, you can predict product demand through the entire omni-channel and apportion inventory to the most ideal nodes to service walk-in demand, BOPIS and same-day or multi-day delivery.

Improve perfect order and lower cost to serve – Build market-level product forecasts using both traditional time-series statistical models and machine learning (ML) approaches. Consumer order details feed market-level product forecasts based on ship-to, not sell-from or ship-from, locations. Forecasts are broken down by delivery types based on current expected consumer demand and apportioned to the ideal nodes to fulfill, improving perfect-order (on-time and in-full) whole and lowering costs-to-serve.

Benefits:


- Provide consumers fulfillment choices that are both profitable and sustainable
- Predict unconstrained customer demand
- Place resources optimally across your commerce ecosystem


Change the rules based on future demands – As the focus of the forecast has shifted from a fixed location to the market, and apportionment is based on customer order potential, the forecast does not have to be fixed to a network across the entire horizon. As consumer habits shift during demand surges or events, or to anticipate network shape, change the expectation of fulfillment rules at future points in the horizon and determine what capacity is or might be needed to meet demands.


Achieve Commerce Excellence:


- Optimize total cost-to-serve by considering various cost factors, including transportation, capacity, markdowns, and stockouts
- Plug improved inventory placement into an existing replenishment system without making additional changes
- Improved perfect order (on-time and in-full) scores and faster delivery to consumers
- Reduced split shipments and shorter delivery routes result in fewer miles on the road, lowering carbon emissions

Features

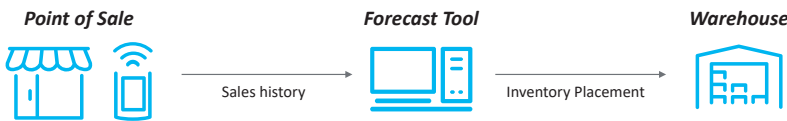
 **Market-based forecasting**
Demand forecasts based on the ship-to and not the ship-from

 **Delivery-type assignment**
Forecast placement and inventory assignment in supply planning systems based on consumer preference to improve on-time and in-full orders

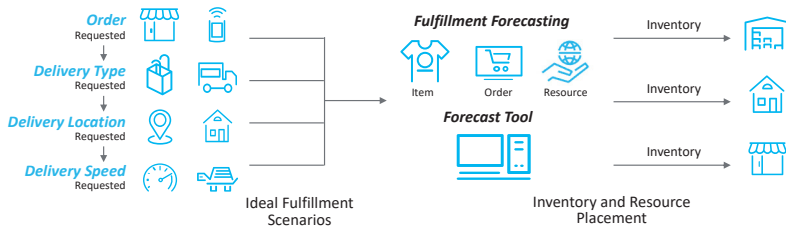
 **Simplified omni-channel network modelling and adjustment**
Quickly and intuitively identify capacity constraints caused by potential demand surges in the forecast horizon and add new stores, dark stores or MFCs for BOPIS or delivery

 **Assortment eligibility**
Understand where items will be most profitably placed and suggest removal of slow sellers from store or DC locations

Traditional planning tools forecast where and when consumers buy



Fulfillment Forecasting plan where, when and how the consumers want to get the product



Digital transformation is at your fingertips

To learn more, visit blueyonder.com