



OMNI-NETWORK DESIGN

Achieve omni-channel success by
optimizing supply chain design and
fulfillment network configuration

A Digital Retail Supply Chain Twin for Inventory and Fulfilment Flows

Customers can now choose not just where to buy, but also where to collect or receive their goods. They can also choose how fast they want their orders fulfilled. How well your network responds, depends on how well you plan and how well you fulfill.

The challenge for retailers is to configure their supply chain and inventory positioning to fulfill omni-orders at low cost. Silo-driven perspectives with store KPI's and DC KPI's no longer capture the omni-channel complexity or the multiple roles of stores and DC's.

The question is: **“What network structure best positions your supply chain to fulfill omni-customer demand most profitably?”**. Omni-Network Design provides the answer.



Omni-Network Design for an Omni-Future



Foresee the impact of DC's, fulfillment centers & hub-stores on profitability, fulfillment costs & sell-through



Better position your inventory at hub-stores in anticipation of optimized omni-fulfillment



Reduce excess inventory at stores that are not close to omni-channel orders



Increase availability and faster delivery to omni-channel orders at lower fulfillment costs



Have better strategic decision-making capabilities with what-if scenarios



Why Use Omni-Network Design?

Its Holistic Digital Supply Chain Twin of Your Supply Chain and Retail Network

- ✓ Enables you to find optimal supply chain configuration, including the optimal number and location of DCs and hub-stores
- ✓ Helps you overlay supply chain configuration changes with future demand expectations (e.g. increased overall demand or increased online share of sales)
- ✓ Provides AI-powered, profit-optimized inventory decision-making for allocation, replenishment, and forecast driven fulfillment from DCs to stores.

Identify the Optimal Network Design That Builds on an Accurate Representation of How You Plan and Execute

- ✓ Evaluate the impact of supply chain and network design choices on the total cost of fulfillment and inventory costs, sell-through, lost sales, and net profitability
- ✓ Decide which locations in your network are better positioned to provide services to online fulfillment
- ✓ Make profit-optimized allocation and replenishment decisions for stores and DC's
- ✓ Oversee the right inventory levels in different stages of a season
- ✓ Optimize fulfillment of customer orders for any combination of DC's, hubstores, stores, and supply chain parameters (such as lead-times and replenishment frequency)
- ✓ Serve the customer of the omni-future.

It Gives You Full Visibility That Enables You to:

- ✓ See the impact of the network and supply chain configuration decisions on your financial performance
- ✓ Make better supply chain strategy decisions.

Its Simulations and Measurements Help You:

- ✓ Optimize fulfillment, supply decisions, and flows for for each and every customer order
- ✓ Foresee fulfillment costs, inventory levels, net sales and profitability
- ✓ Use alternative configurations and measurements for current and future demand levels and mix.



A/B Test Proven Client Results



Gross Profit Improvement



Increase in Revenue



Inventory Decrease



Fulfillment Cost Reduction



Higher Sell-Through

About Invent Analytics

Invent Analytics' Omni-AI **delivers significant financial improvement** by empowering retailers to **profit-optimize** their supply chain. It orchestrates a retailer's entire supply chain **by unifying network planning, inventory and price optimization, and fulfillment in one framework.**

Invent Analytics puts your **omni-customers at the heart of its tailor-fit solutions.** It **proves the financial benefits** with pre-go-live simulations and rigorous **A/B testing.** Invent Analytics' over 30 clients have experienced a **2-6% increase in profitability.**

Invent Analytics' Omni-AI SaaS solutions are:

- Omni-Network Design
- Omni-Plan Suite
 - Omni-Demand Forecasting
 - Omni-Store and DC Replenishment Optimization
 - Omni-Allocation Optimization
 - Omni-Transfer Optimization
 - Markdown Optimization
 - Assortment Optimization
 - Dynamic and Competitive Price Optimization
- Omni-Fulfillment

Invent Analytics has been selected as the **Top Supply Chain Technology Company by Retail Industry Leaders Association (RILA)** and **won the 2020 Innovation Awards for Supply Chain.**

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