EVEREST Technologies

Supply Chain

Seasonal retail · 3PL warehouse operations

Seasonal Retailer Deploys a **Custom-Built WMS** Across **60 3PL Facilities**

A purpose-built SaaS WMS that outperformed traditional enterprise platforms, delivering faster value and greater configurability than Manhattan, Made4Net, or Infios, at a fraction of the cost.

- Processed over 4.6 million inbound and 4.6 million outbound cartons during peak seasonal cycles
- Supported weekly peak volumes exceeding 850,000 cartons across 60 3PL distribution centers
- Improved end-to-end visibility across all 60 distribution centers, without the overhead of a traditional enterprise WMS

AT A GLANCE

Engagement Snapshot

Industry
Retail

Practice area
Suplly Chain

Outcomes tracked
7

The challenge

The customer operates a highly dynamic, seasonal retail supply chain supported by 60 distributed 3PL warehouse partners across North America. Warehouse operations relied on fragmented data exchanges, limited real-time visibility into carton and pallet movements, and manual coordination across systems. As seasonal demand peaks approached, the existing setup lacked the scalability and resilience required for high-volume inbound and outbound operations, resulting in fulfillment delays, data inconsistencies, and limited ability to scale efficiently.

The customer evaluated traditional enterprise WMS platforms and custom-built solutions from other services organizations but found that their seasonal, high-velocity 3PL model required a purpose-built approach from a company with deep supply chain experience. Off-the-shelf systems could not deliver the required unique operations, configurability, rapid deployment timeline, or cost efficiency at the scale of a 60-facility operation.

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What Everest delivered

Everest designed and implemented a fully custom Warehouse Management System (WMS) delivered as a SaaS solution, purpose-built to match the exact operational workflows, seasonal rhythms, and business rules of the client's 60-site 3PL network. The project followed a structured, iterative delivery model with multiple build cycles, 500+ test cases, and phased releases aligned to peak seasonal demand.

Unlike traditional enterprise WMS implementations that require six to eighteen months of configuration and carry significant licensing and professional services costs, Everest's custom SaaS approach delivered a production-ready system within a single quarter. The result: a WMS built precisely the way this business actually runs, not adapted from a generic platform, at a fraction of the cost of comparable enterprise alternatives.

Solution components

- Distributed warehouse management system supporting **large-scale 3PL operations across 60 facilitie**s, purpose-configured to match the client's exact business processes
- Handheld **RF-based carton and pallet tracking** with real-time data capture in warehouse environments
- Centralized web-based dashboards for **monitoring, reconciliation, invoicing, and operational visibility**
- **Bi-directional data synchronization framework** with delta-based reconciliation between edge devices and backend systems
- High-volume inbound and outbound supply chain execution with **pallet-level tracking and location-based inventory** through a Put Away module
- Exception-driven processing for operational mistakes and data inconsistencies
- SQL-based relational database, **SFTP data ingestion pipelines,** and API-driven backend services

Approach

The project followed a structured, iterative delivery model aligned with seasonal retail timelines. Multiple build cycles were deployed across web and handheld platforms, supported by extensive QA validation including 500+ test cases and regression cycles. The system was validated across high-volume transaction scenarios, offline-to-online synchronization cases, and exception handling workflows to ensure stability and accuracy. Continuous testing and phased releases enabled smooth production deployment ahead of peak seasonal demand, with minimal post-release defects and high system reliability.

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Why custom-built WMS delivered greater value

This engagement demonstrates a compelling case for purpose-built software in complex supply chain environments. When a seasonal retailer's operational model does not align with the assumptions baked into enterprise WMS platforms, the cost of forcing that fit, in time, money, and ongoing customization, often exceeds the cost of building the right tool from scratch.

FEATURE	TRADITIONAL ENTERPRISE WMS	EVEREST CUSTOM SAAS WMS
Implementation timeline	6-18 months	Single season
Licensing cost	High (per-user / per-module)	SaaS subscription, predictable and lower
Configurability	Limited by platform constraints	Fully tailored to your business rules
Seasonal scalability	Requires additional modules	Built-in from day one
3PL network support	Complex multi-site setup	Native 60-site architecture
Time to first value	Post go-live, months out	Live at peak season, Season 1

Delivered as a SaaS offering, Everest's WMS removes the upfront capital expenditure associated with traditional on-premise implementations while providing enterprise-grade performance, security, and support. The client received a system that runs exactly the way their business runs, not the other way around.

Quantified impact

4.6M

Over inbound and 4.6 million outbound cartons during peak...

850K+

Weekly peak volumes exceeding cartons across 60 3PL distribution...

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Impact & outcomes

- Processed over **4.6 million inbound and 4.6 million outbound cartons** during peak seasonal cycles
- Supported weekly **peak volumes exceeding 850,000 cartons across 60 3PL** distribution centers
- Improved end-to-end visibility across all **60 distribution centers**, without the overhead of a traditional enterprise WMS
- Streamlined pallet and carton tracking with reduced manual reconciliation
  Efficient handling of exception scenarios **(mis-sorts, blind receipts, unlabeled cartons)**
- Reduced dependency on **manual coordination and email-based communication**
- Real-time and offline-capable data synchronization ensuring consistent data availability across all **60 facilities, regardless of connectivity conditions**

Post go-live impact

Post go-live, the platform demonstrated strong scalability and stability under peak seasonal demand across all 60 3PL distribution centers. Real-time dashboards and reporting capabilities improved operational visibility for both warehouse users and corporate teams, enabling faster decision-making and issue resolution.

The system reduced dependency on manual coordination and email-based communication, improved user efficiency in warehouse workflows, and ensured consistent data availability through real-time and offline synchronization capabilities.

Tools & platforms

- SQL-based relational database supporting high-volume transactions (150K+ record handling capability)
- Real-time and offline-capable data synchronization layer with delta-based reconciliation
- SFTP-based data ingestion pipelines for external data sources (Kit Ship Advice, Outbound BOL, IBBOL, CBBOL, Inbound BOL, Store Backfill feeds)
- API-driven backend services for transaction processing and data synchronization
- Handheld RF scanning devices for warehouse data capture
- Web-based dashboards and reporting systems

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Book a Meeting