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REAL-TIME INVENTORY ANALYTICS

Why Real-Time Inventory Analytics?

76% of Retailers see the need of Real-Time Inventory as critical

25% are happy with what they've today

INVENTORY EXCEPTIONS ARE VERY EXPENSIVE

Per industry research, retailers lose about 11% of revenue due to inventory exceptions (close to $2 Trillion annually)

RETAIL IS BECOMING OMNI-CHANNEL

Most retailers operate both online and offline stores but they don't have the solutions to minimize events where the customer doesn't find the product he bought or experiences delivery delays

SUPPLY CHAINS ARE BECOMING MORE COMPLEX AND COLLABORATIVE

Knowing **where** product inventory is and **how much** product is available at any time, drive higher efficiency from Supply Chains

RTI Analytics is critical, at HQ, point-of-sale, point-of-distribution and in-shipment

Challenges in achieving RTI

Traditionally, retail inventory management systems are not designed/capable of real-time updates

Synchronization of inventory positions between inventory and other systems (like store, ordering, WMS, merchandizing, BI/reporting etc.) is complex

Solution

Real-time Inventory system updates as and when inventory transactions happen

Real-time Inventory visibility and publishing of inventory positions across enterprise

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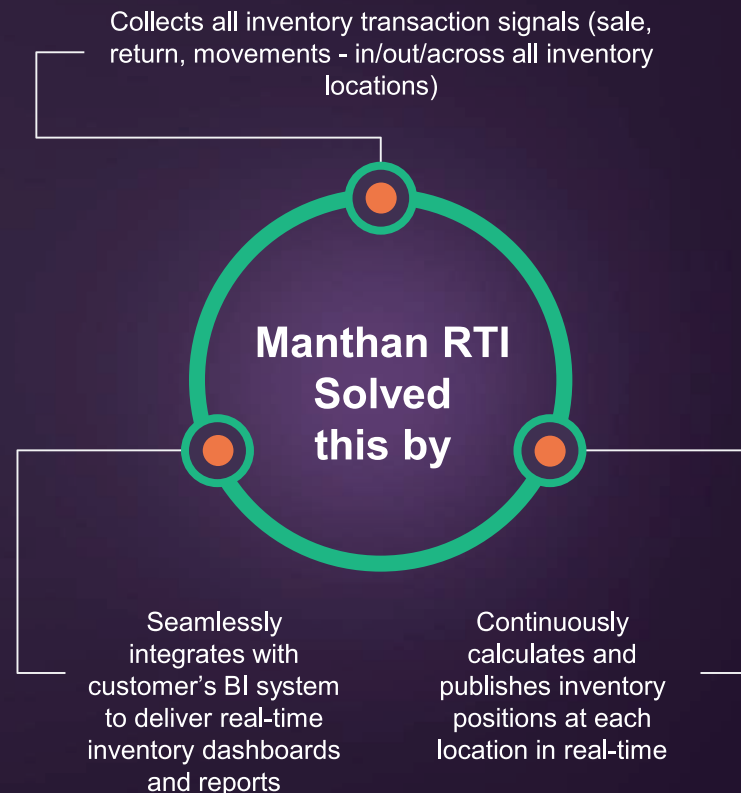# RTI Analytics Deployment @ Leading US Retail Chain by Manthan

$16B in Revenue | 500+ Locations across US | 5M Customers | 80,000 SKUs Stores Over
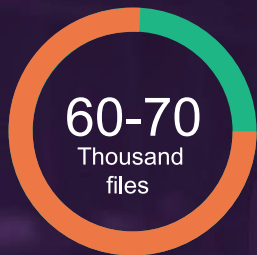
Business Problem

- Business was characterized by fast moving products and highly distributed ordering and replenishment processes
- Smaller store formats meant low inventory holding capacity
- Frequently, customers would not find 1 or 2 products that they want to buy on the shelf's, leading to lower levels of satisfaction
- 48 hours+ lag in inventory positions visibility to key stakeholders
- Retailer was seeing frequent out of stock, overstock and shrinkage events

Results

- Increased revenue by $40M by reducing out of stock events
- Reduced cost of inventory by 5%
- Higher Ordering and replenishment efficiency

Manthan RTI Solved this by

Collects all inventory transaction signals (sale, return, movements - in/out/across all inventory locations)

Seamlessly integrates with customer's BI system to deliver real-time inventory dashboards and reports

Continuously calculates and publishes inventory positions at each location in real-time

60-70
Thousand
files

Processed per day

5 - 6
Million
per day

Total records processed

1.8
Million
Trxn. per min.

@ Peak load

- Zero down time with completely server less architecture with no infrastructure management, J/VMs, Webservers, Software update
- Leverages Out-of-Box Lambda triggers to avoid traditional, push, pull, queue topic, messaging technologies
- Out-of-box Batching provided by micro services to throttle

Manthan RTI Analytics provides **Real-Time Inventory visibility** at every point of inventory location / distribution

- Doesn't rely on availability of updated inventory data in Inventory Management Systems - tracks all inventory transactions and dynamically calculates inventory positions in real-time.

- The platform provides seamless visualizations of real-time inventory data at every point of distribution.

- It publishes inventory positions for real-time consumption by various consumer applications (internal or external).

Contact us for the detailed architecture layout @ online.enquiries@manthan.com