



Smart Inventory Tracker

A proven mobile scanning solution used by pharmaceutical supply chain stakeholders in warehousing, distribution, and dispensing environments to scan millions of serial numbers monthly and ensure regulatory compliance at the edges of the supply chain.

Around the globe, new and evolving serialization and track-and-trace mandates—including the U.S. Drug Supply Chain Security Act (DSCSA), the European Union Falsified Medicines Directive (EU FMD), and many others—have created a host of complex challenges in shipping, receiving, manufacturing, and product verification for pharmaceutical manufacturers, wholesale distributors, logistics providers, and dispensers. These include requirements to maintain an accurate record of product aggregation changes; rapidly verify products for saleable returns processes and suspect or illegitimate product investigations; and conduct post-batch rework when configuration updates are required due to damage, aggregation changes, and sampling or processing errors.

Current warehouse management systems (WMSs) and enterprise resource planning (ERP) systems lack the “serialization awareness” needed to fully support these requirements. To avoid disruptions and ensure regulatory compliance, pharmaceutical supply chain stakeholders need a mobile scanning solution that works alongside WMS and ERP systems and addresses these limitations.

Smart Inventory Tracker

TraceLink Smart Inventory Tracker is a proven mobile solution for handheld devices that delivers powerful capabilities for managing serialization, track and trace, and event data capture in warehousing and distribution processes. Smart Inventory Tracker is pre-integrated with critical TraceLink solutions, including Serialized Operations Manager, Product Information Manager, and Smart Event Manager, enabling pharmaceutical supply chain stakeholders to ensure compliance with evolving serialization and track-and-trace mandates around the globe.

Additionally, with Smart Inventory Tracker, there are no customizations needed to address complex serialization and track-and-trace use cases. Smart Inventory Tracker is a turnkey solution that is ready to use out of the box.



Key Capabilities

- **Mobile Device Support:** Runs on commercially available mobile devices, including mobile phones and handheld scanners, and is natively connected to the highly scalable TraceLink cloud-based network platform.
- **Flexible User Interface:** Scan barcodes or manually enter product identifier information to get instantaneous feedback.
- **Manage Serial Numbers:** Rapidly view and assign serial number status to products, including available, dispensed, damaged, under investigation, and more.
- **Configurable Settings:** Configure scans based on market or country, event type, and critical other data. Configure operations based on specific business needs, including serial number inquiry and management, QA sampling processes, warehouse operations or container rework, global compliance mandates, saleable returns verification, and more.
- **Register Serial Numbers:** Quickly register new serialized product identifiers and manage containers and aggregation across all warehouse processes.
- **Product Verification:** Verify that the correct product, lot, quantities, and serial numbers are shipped, received, transferred, and returned. Smart Inventory Tracker is fully integrated with TraceLink Product Information Manager, which provides product verifications with sub-second response times.
- **Compliance Reporting:** Smart Inventory Tracker is fully integrated with the TraceLink track-and-trace platform, enabling users to trigger automated compliance reports based on predefined workflows.
- **Post-Batch Rework:** Handle post-batch rework and exception management processes for sampling, verification, or damaged product without having to send product back to the packaging site and line.

Key Benefits

Proven Speed and Scalability: Smart Inventory Tracker leverages the highly scalable TraceLink cloud architecture and is designed, developed, and proven to deliver sub-second response times for processes at the edges of the supply chain.

- Rapidly deployed and complements your existing WMS and ERP systems.
- Enables aggregate serialized receiving and shipping, including receiving, pick-pack-ship, internal transfers, inventory counting, and returns.
- Speeds up product verifications for DSCSA suspect product and saleable returns processes.
- Streamlines the processing and management of all serialized products.

Purpose-Built: Smart Inventory Tracker is natively integrated into the TraceLink cloud architecture and is purpose-built to address serialization and compliance challenges.

- Improve aggregation management, including aggregation, disaggregation, and re-aggregation across distribution and warehouse operations.
- Boost compliance efficiency and effectiveness of verification and decommissioning procedures across warehouse processes for DSCSA and EU FMD use cases, as well as Russia compliance use cases in warehouse and aggregation scenarios, and more.
- Helps ensure customer satisfaction by reducing the stockouts and delayed shipments that result from compliance errors and exceptions.

Lowest TCO: Smart Inventory Tracker eliminates the need to make invasive ERP or WMS changes to support serialization and track-and-trace activities.

- Operates alongside the ERP and WMS so that these systems do not have to be “serialization aware.”
- Uses a set of Application Programming Interfaces (APIs) designed specifically for critical processes such as receiving, shipping, aggregation and verification.

Continuous Compliance: TraceLink Smart Inventory Tracker enables users to maintain compliance with complex regulations even as requirements evolve and change over time.

- TraceLink works continuously with our customers, partners, and regulatory agencies to understand new requirements and specifications—and TraceLink solutions are rapidly updated to support changes in regulations around the globe.



Smart Inventory Tracker Use Case	Description
<p>Serialized Receiving</p>	<p>Significantly streamlines serialized receiving operations for manufacturers, wholesale distributors, and dispensers by enabling rapid scanning of product labels to confirm that the physical receipt matches the serial numbers that were sent electronically—a process required by DSCSA.</p>
<p>Serialized Shipping</p>	<p>Works side by side with WMS and ERP systems, enabling users to scan products and associate serial numbers with the correct warehouse documents as part of pick, pack, and ship procedures.</p>
<p>Product Verification</p>	<p>Verify products for DSCSA suspect and illegitimate product investigations; DSCSA saleable returns processes; and EU FMD product verification requirements with sub-second response times.</p>
<p>Maintaining Hierarchy of Aggregated Products</p>	<p>Product aggregations often change after the product leaves the line management system. Bringing the product back to the line and getting the data properly reinstated takes time, is prone to errors, and can disrupt production schedules. Smart Inventory Tracker enables seamless modification to the product hierarchies without impacting production line operations.</p>
<p>Reprinting Damaged Labels</p>	<p>Enables seamless reprinting of GTIN or SSCC labels so products with damaged labels get to market faster.</p>
<p>Decomission Serial Numbers</p>	<p>Instantly decommission products with a simple scan as required due to quarantines, damaged product, QA sampling, dispensing, or any other reason. Also supports EU FMD Article 16, Article 22, and Article 23 decommissioning requirements.</p>



About TraceLink

Smart Inventory Tracker is built and hosted on TraceLink Opus, the world's largest supply chain network digitalization platform. TraceLink Opus enables manufacturers to seamlessly exchange serialized data and traceability information with direct and indirect trade partners across the supply chain. Key network metrics include:

- **2M+** serial numbers scanned by Smart Inventory Tracker monthly
- **60K+** serialized containers associated to shipments with Smart Inventory Tracker monthly
- **50K+** serialized containers reconciled to receipts with Smart Inventory Tracker monthly
- **1,000+** mobile devices licensed for Smart Inventory Tracker globally
- **290K+** authenticated and onboarded TraceLink Opus network members
- **7,300+** live CMO connections across more than 1300 customers
- **930+** distribution and logistics customers and partners
- **919M+** regulatory documents processed and exchanged
- **41.1+** billion serial numbers commissioned to date
- **14,937+** live serialization connections
- **\$4.7+ billion** in customer savings by avoiding point-to-point integrations

TraceLink Smart Inventory Tracker provides an essential productivity solution for all pharmaceutical supply chain stakeholders that physically handle products and need to stay compliant with regional traceability mandates around the globe.

Contact TraceLink to learn more about Smart Inventory Tracker.