

Serialized Product Intelligence

Take control of your serialized supply chain and unlock the value of serialized data.

With the widespread presence of serialized product information for pharmaceuticals globally, all supply chain stakeholders, including drug manufacturers, wholesale distributors, pharmacies, and hospitals, face increased operational complexity from rapidly-evolving regulatory mandates across the globe. For example, U.S. Drug Supply Chain Security Act regulations require unit-level traceability, data reconciliation, and product verification as of November 2023. This regulatory evolution requires a massive increase in serialized transaction processing and introduces increased compliance exceptions that must be quickly resolved by each company during manufacturing, distribution, or receiving processes to keep serialized operations on track and ensure timely delivery of products to patients.

To address these challenges, supply chain stakeholders require a complete, end-to-end view of their own serialized operations that enables them to reduce the time to error detection, rapidly identify the root cause of serialization errors, readily demonstrate compliance to data reconciliation requirements, and monitor verification activity in real time.

TraceLink Serialized Product Intelligence is an advanced operational reporting solution that enables proactive monitoring of serialized products, operational events, and compliance events. The solution helps you ensure timely delivery of serialized medicines while improving the efficiency of serialized operations and reducing operational costs.



Key Capabilities

TraceLink Serialized Product Intelligence provides an intelligent analytical data model and a high-performance data processing engine to enable continuous, real-time instrumentation and analysis of serialized and lot-level events. Capabilities include:

LOT RECONCILIATION

- Monitor lots and shipments across multiple target markets.
- Drill down into a specific lot and review the entire lot history.
- Track CMO production across markets and products.
- Apply advanced filtering to quickly triage issues and identify root causes.

SERIAL NUMBER RECONCILIATION

- Review serial number operational status, last known deliveries, compliance reports submitted, and packaging hierarchy.
- Analyze operational status at the lot level, delivery level, parent packaging container level, or by specific serial number.

SERIAL NUMBER EVENTS HISTORY

- Review operational and compliance history of serial numbers at the lot level, delivery level, or serial number level.
- Create standard operational checkpoints and compare and troubleshoot both internal or trade partner supply chain issues.

COMMISSIONED LOT MONITORING

- Monitor lot commissioning activity and serial number quantities produced at each packaging level.
- Monitor and analyze lots produced by product, location, or target market.
- Facilitate returns processing where barcodes are damaged and not fully readable through partial lot number search.

MESSAGE ANALYSIS

- Monitor all TraceLink Info Exchange events in near real time.
- Provide visual summaries of message exchanges by serialization process and status.
- Drill down into specific messages to view details of errors with input and output file details.
- Monitor data exchange errors for timely root cause analysis.

Key Benefits

Serialized Product Intelligence is the foundation for ensuring continuous compliance with evolving regulations while driving the highest levels of operational efficiency. Benefits include:

- **Improve Reporting:** Transform serialization events, business rules, and compliance requirements into visual reports and interactive graphical dashboards that provide a top-down view of serialized inventory.
- **Improve Product Availability:** Monitor shipments, lots, and serialized products with new levels of visibility and insight. Accelerate the resolution of issues like serialization discrepancies, aggregation problems, and shipment errors. Enable insightful root cause analysis on issues and events to develop cost and risk avoidance procedures.
- **Gain Full Serialized Operations Visibility:** Develop an end-to-end view of your serialization process and its touchpoints to your packaging, distribution, and receiving operations to reduce delays and improve predictability of supply.
- **Export Into Multiple Formats:** Export large amounts of clean, curated serialization data into other formats like CSV to enable further detailed analysis.
- **Empower Business Users:** Empower business users and other key stakeholders across the enterprise with a powerful user interface for queries, interactive discovery, and data visualization.



The TraceLink Network

Serialized Product Intelligence is hosted on the TraceLink network—the world's largest digital supply network for the life sciences and healthcare industries—enabling you to access real-time, actionable intelligence and proactively monitor your serialized drug supply chain so you can accelerate the resolution of inconsistencies and improve on-time, in-full product delivery performance. Key network metrics include:

291K+

authenticated and onboarded network members

1,800+

life sciences manufacturing companies

930+

distribution and logistics customers and partners

339K+

active network connections spanning 128 countries around the globe

\$4.4B+

customer savings from avoiding point-to-point integrations

1B+

Advance Ship Notices (ASNs) processed

40B+

serialized units tracked

850+

contract manufacturers and packagers

[Contact us to get started with Serialized Product Intelligence today!](#)

