Improving Supply Planning & Inventory Management Using Serialized Product Intelligence

Anurag Nagpal

Director - Solution Consulting US

futurelink

Objectives

- Understanding challenges with Serialized Operations in the Supply Chain
- Leveraging Serialized Operations for Business Objectives
- Tools for Visibility into Serialized Inventory

Managing serialized operations in the life sciences supply chain is a global necessity.

Industry Challenge: Manage Serialized Inventory

Serialization is required across multiple markets

Amplified by expanding, disparate regulatory requirements globally

Monitoring internal and external serialization activities like aggregation hierarchies, item & delivery statuses is required but extremely challenging

Disruptions are costly, can take days or weeks to resolve and delays critical business projects

What Your Peers Are Telling Us

81%

Want proactive supply chain monitoring

59%

Spend way too much time and effort on manual data analysis

81%

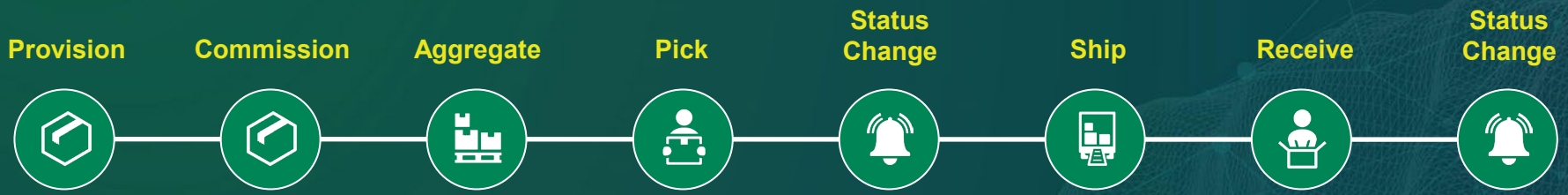
Want CMO tracking & monitoring

72%

Want to unlock value of their data for digital transformation

Source: 2020 Industry Benchmark of Serialization Programs

Serialized Operations and Processes Introduced by DSCSA Requirements



Serialized data can be used to provide greater visibility towards meeting your business outcomes.

Leverage Serialized Operations for Greater Visibility

- **Ensure product availability**
  - Monitor potential sales delays due to serialization or compliance issues
  - Monitor issues and resolve for these by target market
  - Ensure revenue continuity
- **Manage Exceptions**
  - Triage and resolve exceptions
  - Proactively identify EPCIS message exchange (shipping / receipt) errors
  - Reduce cost of unexpected issues by proactive monitoring
- **Risk reduction**
  - Brand protection
  - Respond quickly to regulatory or audit inquiries and avoid potential fines
- **Standardize processes**
  - Reduce ad-hoc issue resolution by standardizing SOPs using relevant tools
  - Empower additional resources and eliminate single point of knowledge
  - Enable key resources to focus on strategic business initiations, rather than forensics

What is Serialized Product Intelligence (SPI)?

Analytics application to ensure timely delivery of serialized medicines while reducing operational costs

Monitor internal & external serialization activities to ensure smooth operations and avoid mistakes

SUPPLY CHAIN MONITORING

Resolve issues up to 50% faster to reduce the cost of product delays and disruptions

ISSUE RESOLUTION

Free up resources and avoid the cost of hiring additional employees to support business growth

RESOURCE OPTIMIZATION

SPI - Out of the Box Capabilities

SN Event Batch History

- Analyze SN and event reported in a timeline view, to reduce root cause analysis
- Strategically view all Serialization events
- Analyze all serial numbers and events associated to a transaction, shipment or receipt
- View compliance failures and drill into root cause

Event-level visibility

Serial Number Reconciliation

- Consolidated view of the current status of items in a lot, pallet sent in the last transaction
- What is the current aggregation hierarchy reported to TraceLink
- Gain visibility into serial numbers by their status
- Compare TraceLink data with ERP/Level 3 systems easily
- Returns reconciliation

SN item level visibility

Commissioned Lot Reconciliation

- View all manufactured products on a single screen
- Monitor actual commission and aggregation quantities across all products
- Validate aggregation accuracy
- View production timelines to better forecast and ensure market demand

Lot level visibility

Message Analysis

- Monitor all Info exchange events in near real time
- Provide visual summary of message details by processes (SOM, SNX) and status (successful, failed)
- Drill down into specific message to view details of errors with Input and output file details
- Monitor data exchange errors for timely root cause analysis.

Message exchange visibility

Lot Reconciliation

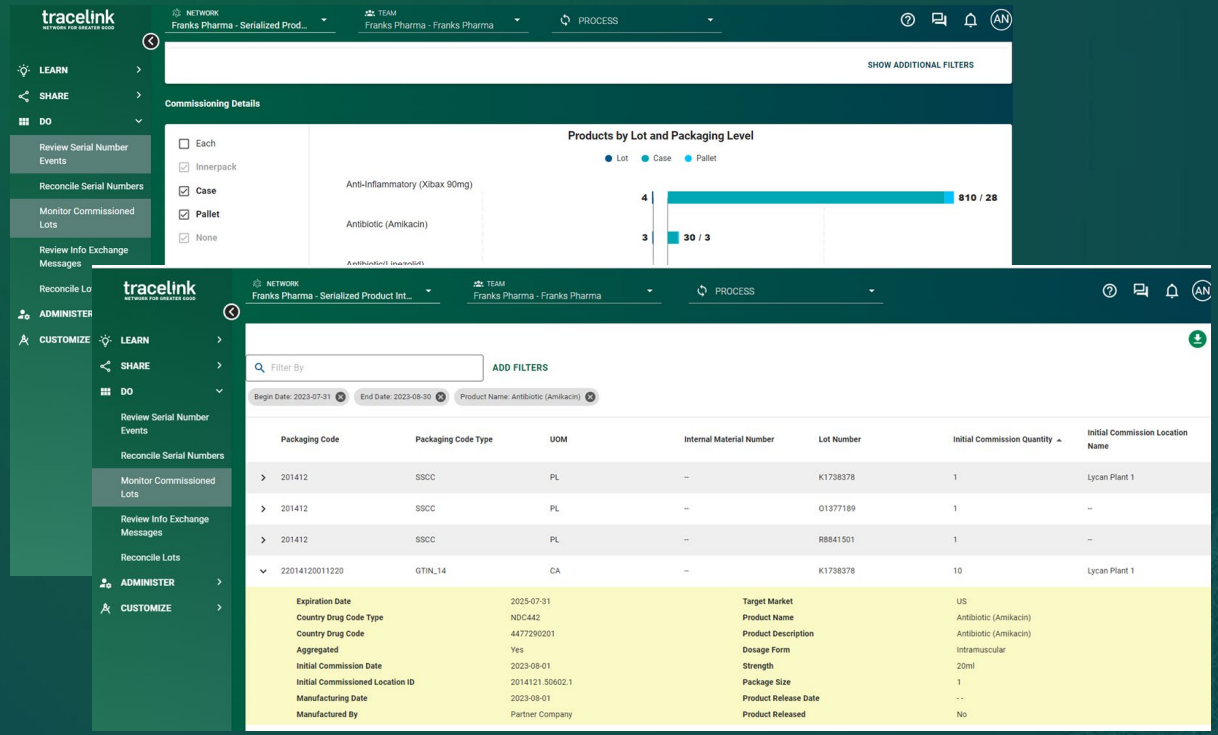
- Proactively monitor all lots modified across all markets
- Drill down into specific lot and review the entire lot history
- Identify serial number volumes / units shipped to any company or location
- Monitor shipments sent to multiple target markets
- Track CMO production across markets and across products

Lot, SN & Event Visibility

Export clean, curated data from any of these modules in SPI in CSV format for further analysis

Monitor Commissioned Lots

Serialized Production Monitoring

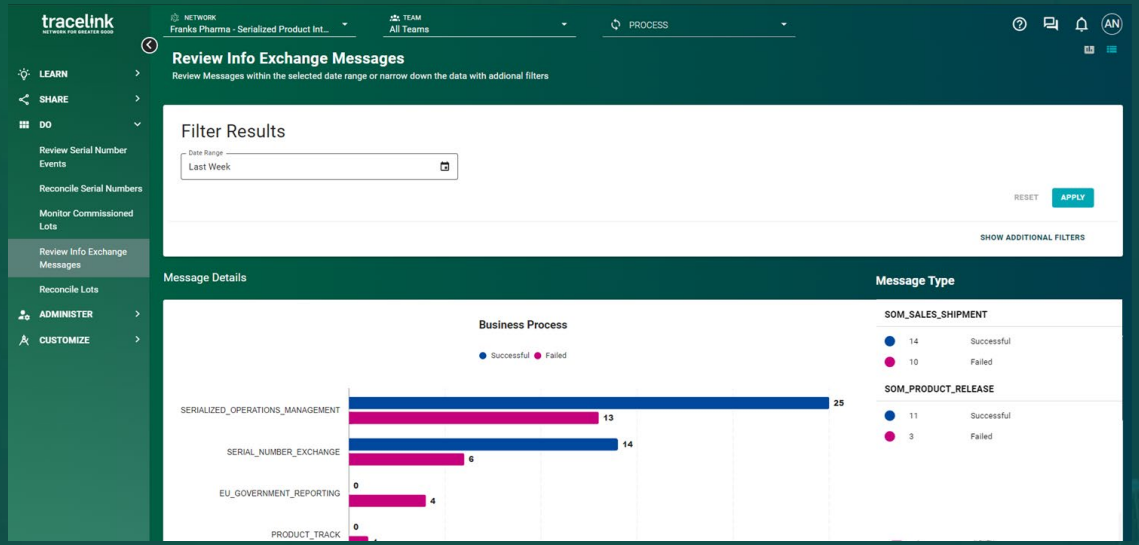


Detailed View into Production

- Provides a view into production statuses
- Monitor Aggregation levels and statuses
- Detailed information of inventory and product availability to sell across markets

Message Analytics

Monitor Supply Chain Transmissions

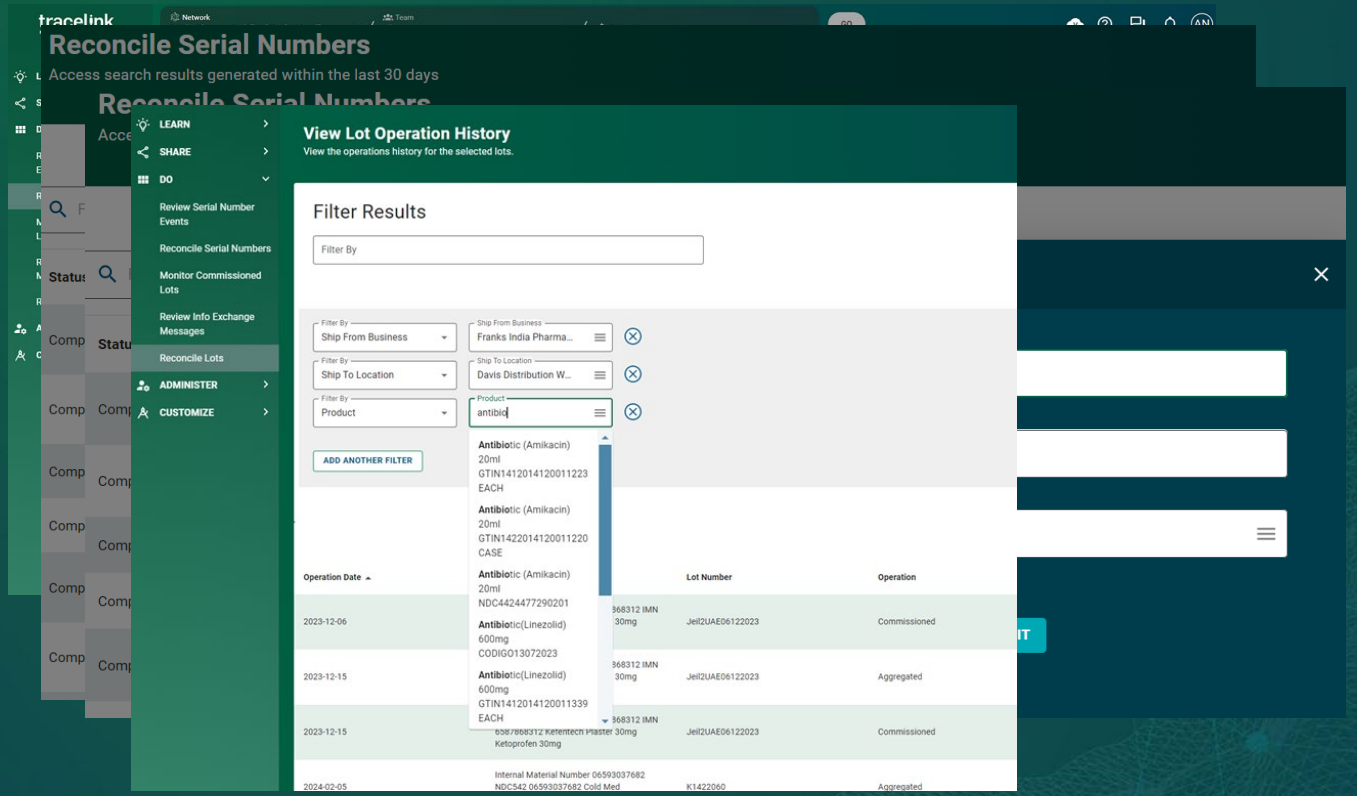


Data Exchange is Critical

- Status of message exchanges with partners
- Identify issues to provide a true picture of Product Availability
- Compliance reporting statuses are needed to provide true inventory picture
- Did I receive the product expected or it is still ‘Pending Receipt’

Issue Resolution

Triage and Resolve



Issue Resolution

- On exceptions, making inventory available again to sell is critical
- Right tools and personnel empowerment is needed to resolve issues
- Right tools and personnel empowerment is needed to resolve issues
- Search and Filter by item statuses, message status, partial SNs, transaction identifiers, and others attributes

Key Takeaways

Utilize serialized visibility into inventory to:

- Triage and manage DSCSA Exceptions
- Empower users to resolve issues and make product available quicker
- Get greater & more granular insights into product availability
- Increase supply chain predictability by utilizing serialized data

Thank You

futurelink