

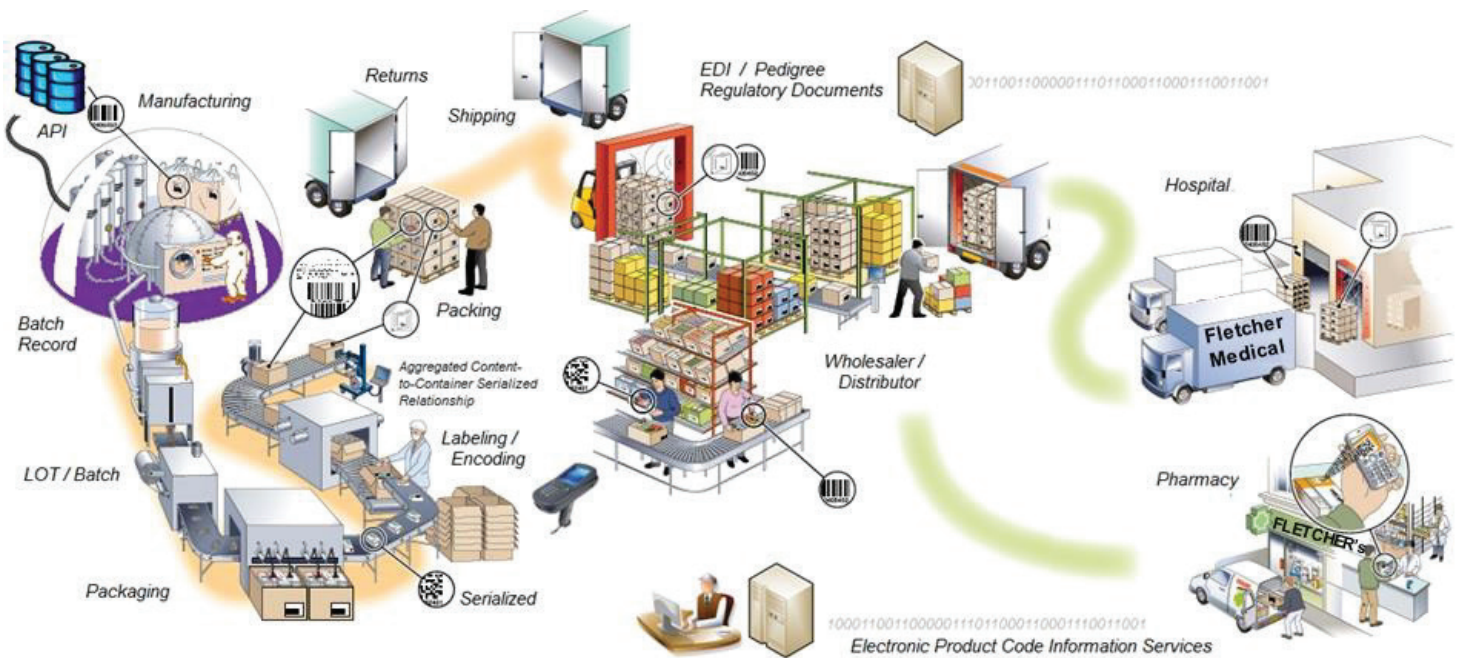
# KNIPPER SEAL™

## Secure Exchange of Authentic Logistics

Knipper Secure Exchange of Authentic Logistics (SEAL) includes an array of overlapping systems and processes to ensure the secure handling of your products from receiving through distribution and after delivery to your buyer.



## End to End Secure Exchange of Authentic Logistics in Life Sciences



- ✔ *Tightly Controlled and Validated Handling*
- ✔ *Process Focused on Serialization*
- ✔ *Encrypted Data Exchange*
- ✔ *GxP Processes*
- ✔ *Authentication at Receiving*
- ✔ *Layers of Physical Security*
- ✔ *Enhanced DEA Cage Security*
- ✔ *Cyber Security*
- ✔ *Controlled and Recorded Environment*

# Knipper SEAL™ with Basic Serialization Services

**Knipper SEAL Basic** adds receiving serialized products, recording the serial numbers, and shipping the serialized product to meet the requirements of the Drug Supply Chain Security Act (DSCSA). When products are shipped, the transaction information (TI), including serial numbers is sent to your company for your system to send to your buyer. Optional direct to buyer connections.

- ▶ Compliance with US Federal Drug Quality and Security Act of 2013 (DQSA) / Drug Supply Chain Security Act (DSCSA) November 2023 requirements.
- ▶ Receive inbound Electronic Product Code Information Services (EPCIS) Files from packagers with all serial numbers and packaging child to parent aggregation data. Reconcile received serial numbers on packages and verify labels on product have not changed during physical inspection before inventory.
- ▶ Transmit DQSA/DSCSA required transaction documents (TD). If child to parent aggregation is available, Knipper will send serialization data in EPCIS to your company or optionally directly to your buyer.
- ▶ The DSCSA transaction documents may be in different widely accepted formats, including EPCIS version 1.2 files via AS2 or sFTP or provided using the optional Knipper PAL™ (Portal for Authentic Logistics).

# Knipper SEAL™ with Enhanced Serialization Handling

**Knipper SEAL Extended** adds to the basic service direct dispatch of the transaction documents (TD), sometimes referred to as T3, to the buyer, complete with serialization details, DSCSA required transaction information (TI) and transaction statement (TS).

***Includes the Basic DSCSA Serialization Management tier, plus the following:***

- ▶ Direct transmission of transaction documents to your buyer.
- ▶ Direct receipt of serialization from direct and contract packagers
- ▶ Customer service support for serialization exceptions with your buyer, such as when a packaging error is discovered by a buyer.
- ▶ Retain all serial numbers.



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## Full DSCSA Serialization – No need for your own system!

**Knipper SEAL Premium** adds a complete serialization solution for your business. With the premium option, Knipper 3PL hosts and manages all the serialization so your company can avoid the cost of purchasing your own enterprise serial number management or “L4” solution.

### ***Includes the Extended & Basic DSCSA Serialization Management plus the following:***

- ▶ A complete serialization solution for your business. Knipper 3PL hosts and manages all the serialization so your company can avoid the cost of purchasing your own enterprise serial number management solution (sometimes referred to as an L4 system).
- ▶ Allocating and transmitting unique serial numbers to your packaging operations, confirming those serial numbers when the products are received, sending the DSCSA required transaction documents (TD) and responding to issues or exceptions with buyers.
- ▶ Verifying allocated serial numbers when products are received extending the security envelop to your packagers, through Knipper 3PL and to your buyer.
- ▶ Support suspect product investigation.
- ▶ Optional Verification Router Service ([VRS](#)) or verification for investigations.

## Additional Optional Service Offerings



### **Knipper Secure Handling of Unintentional Tampering ([SHUT](#))**

Tamper Evident Seals on cases and Pallets to detect adulteration while items are in transit.



### **Knipper Transit Refrigeration Assurance Controls ([TRAC](#))**

Temperature tracking labels or data collection devices. GPS, shock and temperature logging devices for high value products.



### **Portal for Authentic Logistics ([PAL](#))**

Web Portal for your buyers, especially specialty pharmacies and dispensers, who do not need or want to use EPCIS. Includes serialization details and supports all aspects of enhanced transaction documents requirements.



### **Knipper Exchange of Aggregated Serialized Items ([EASI](#))**

Add child to parent aggregation of any inventory not already aggregated.



# THE KNIPPER 3PL ADVANTAGE

## *It's Built for You:*

The flexible, tailored solutions of Knipper 3PL integrate an agile, responsive business model with trusted, proven distribution services and an innovative suite of combined technology capabilities to drive performance, efficiencies and cost-controls.

## *Our Leadership & Experience:*

Dedicated solely to the Life Sciences industry for more than 35 years, Knipper is an industry leader in trade distribution, free goods distribution, dispensing and sampling.

## *Your Passionate Partner:*

We work closely with your team providing a holistic, consultative approach to address brand challenges and build advocacy, while providing value-added insights and actionable data in a timely, results-driven manner.

### EXPERT 3PL DISTRIBUTION & LOGISTICS

- Inventory, storage management
- Automated pick and pack (Perfect Pick®), Pick to Light
- DSCSA full end-to-end serialization solutions
- DEA Controlled
- Cold chain



### COMPREHENSIVE 3PL SERVICES

- Product launch commercialization, advanced data and analytics
- EDI comprehensive reporting
- 3PL Consignment and Flash Title models
- Repacking/kitting/relabeling
- Reverse logistics
- Tamper seals

### 3PL CUSTOMER AND FINANCIAL SERVICES

- Account set-up and management
- Full order-to-cash
- Contract management
- DSCSA Buyer support



*Your partner  
in secure  
logistics and  
serialization in  
life sciences.*

