The Drug Supply Chain Security Act (DSCSA)
Working Towards Enhanced Drug Distribution Security in the U.S.

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Disclaimer

The content here is intended only to provide a summary and general overview. It is not intended to be comprehensive nor does it constitute legal advice.

Additional Resources

Updates and links to FDA documents or notices summarized in this presentation can be found on the DSCSA webpage on FDA’s website.
Objectives

• Provide an update on implementation of enhanced drug distribution security requirements of the Drug Supply Chain Security Act (DSCSA) in the U.S.
• Describe recent stakeholder engagement through our public meeting series
• Describe plan for engaging and educating stakeholders
Pharmaceutical Supply Chain

Maintaining integrity from manufacturer to patient(s)
- Who touches the product?
- Where are the vulnerabilities?
- What are the threats?

Protect the product → Protect the patient

DSCSA
Goals of the DSCSA

• Develop an electronic, interoperable system by 2023 to identify and trace certain prescription drugs as they move through the U.S. supply chain.

*The new system will:*

• facilitate the *exchange of information* by trading partners at the *individual package level*
• improve efficiency of *recalls*
• enable *prompt response* to suspect and illegitimate products when found
• create *transparency and accountability* in the drug supply chain

• Establish national standards for licensure for wholesale distributors and third-party logistics providers.
The DSCSA Path

- **3PL & Wholesale Distributor reporting to FDA 2014-2015**
- **Product Tracing & Verification 2017-2018**
- **Product Identification (Serialization) 2019+**
- **Product Verification (down to package level) 2019+**
- **Electronic, Interoperable System (product tracing down to package level) 2023**
- **Licensure standards for 3PLs and wholesale distributors**
Wholesale Distributor & Third-Party Logistics Provider Reporting Database

- Single national database
- Self reported information by Wholesale Distributors and Third-Party Logistics Providers (3PLs)
- Search capability (by facility name, type, State, or license)
- File download capability
**Product Tracing**

- Trading partners exchange transaction information/transaction history/transaction statement
- Currently, lot-level (package-level by 2023)
- Paper or electronic formats

**Verification**

- Respond to verification requests for suspect product
- Quarantine & investigate suspect product to determine if illegitimate product
- Notify trading partners and FDA of illegitimate product (within 24 hours of determination)
- Respond to notifications of illegitimate product
Definitions: suspect and illegitimate product

- **Suspect Product** - reason to believe that product potentially:
  - counterfeit, diverted, stolen
  - subject of fraudulent transaction
  - intentionally adulterated or appears otherwise unfit for distribution such that would result in serious adverse health consequences or death to humans

- **Illegitimate Product** - credible evidence that the product actually is any of the above
Notify FDA of Illegitimate Products

- **FDA 3911**
- **Required to:**
  - Notify FDA of illegitimate product within 24 hours of determination (must also notify other trading partners).
  - Consult with FDA that a notification is no longer necessary to request termination of notification.
- **Who must notify?:**
  - Dispensers (primarily pharmacies)
  - Manufacturers
  - Repackagers
  - Wholesale distributors

http://www.accessdata.fda.gov/scripts/cder/email/drugnotification.cfm
Authorized Trading Partners

- Manufacturers, repackagers, wholesale distributors, 3PLs, and dispensers (primarily pharmacies)
- Appropriate registration with or licensure from FDA or State authorities, as applicable

Identifying Trading Partners – Draft Guidance to Industry

- Clarifies the activities of each trading partner under the law and respective requirements
- Reviewing public comments for finalization
Product Identification (Serialization)

• A unique product identifier must be placed on certain prescription drug packages (in human and machine readable format)
  – Manufacturers (No later than 11/27/2017)
  – Repackagers (No later than 11/27/2018)

• Product identifier consists of
  - National Drug Code
  - Serial number
  - Lot Number
  - Expiration Date

• Data Carrier – 2D data matrix bar code
• Verification requirements change once products are serialized
One year delay in enforcement of manufacturers requirement to affix or imprint product identifier on package or homogenous case --> November 27, 2018

Verification: Enforcement discretion for trading partners who do not verify product that was introduced into a transaction into commerce between 11/27/2017 and 11/26/2018 without a product identifier (differs for each trading partner)

• Reviewing public comments for finalization
Proposed DSCSA Pilot Project Program

- FDA shall establish 1 or more pilot projects
- Coordinate with manufacturers, repackagers, wholesale distributors and dispensers
- Explore and evaluate methods to enhance the safety and security of the pharmaceutical distribution supply chain
- Design: utilization of product identifiers for product tracing and verification, improve technical capabilities needed to utilize product identifiers, identify system attributes that are necessary, other
  - Public comments are under review
Pilot Project Program
Potential Issues to Examine

Product Identifier
Barcode Quality
Interoperability
Data/Database/Systems
Aggregation/Disaggregation
Verification/Notification
Exceptions Handling/Errors
Special Scenarios

2018

• FDA intends to initiate the DSCSA pilot project program this year
• Announcement will be published in the Federal Register
Public Meeting Series  
Enhanced Drug Distribution Security Under DSCSA

Goal: Gain stakeholder input on strategies and issues related to the enhanced drug distribution security provisions of the DSCSA

DSCSA Public Meetings

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<th>Dates</th>
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| August 23, 2017     | • Supply chain security in 2023  
                     | • Enhanced drug distribution security needs                            |
| December 5-6, 2017  | • Electronic interoperability  
                     | • Standards for data exchange  
                     | • Data architecture  
                     | • Aggregation and inference                                             |
| February 28, 2018   | • Further refinement of enhanced drug distribution security needs  
                     | • Building capacity for a unit-level system                             |
Recap of DSCSA Public Meetings

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<th>August 2017</th>
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<td>• Vision for 2023</td>
<td>• Standards for data exchange</td>
<td>• Enhanced drug distribution security</td>
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<tr>
<td>• Enhanced drug distribution security needs</td>
<td>• Data architecture (distributed model)</td>
<td>• Verification using the product identifier</td>
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<td>• Roles of supply chain and FDA</td>
<td>• Update on Falsified Medicines Directive</td>
<td>• Identified “guardrails” to assist stakeholders with implementation</td>
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<tr>
<td>• Opportunities for interoperability</td>
<td>• Aggregation and inference needs and practices</td>
<td>• Prioritized guardrails</td>
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<td>• Improving supply chain efficiency &amp; security</td>
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www.fda.gov
The DSCSA Path

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- Authorized Trading Partners 2015
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- Electronic, Interoperable System (product tracing down to package level) 2023
- Licensure standards for 3PLs and wholesale distributors
Enhanced Drug Distribution Security – 2023

- Establishes package level requirements for the interoperable, electronic tracing of products that shall go into effect 10 years after enactment of this Act, including those relating to:
  - Electronic exchange of transaction information for each sale of certain prescription drugs
  - Verification of product identifiers at the package level
  - Prompt response to suspect and illegitimate products when found
  - Improved efficiency of recalls
What’s Next

• DSCSA Pilot Project Program
• Guidances and Regulations
• Plan for engaging and educating stakeholders
  – Present and attend stakeholder meetings
  – Targeted communications to trading partners
  – Improvements to info on website
  – Potential public meetings in the future
THANK YOU!