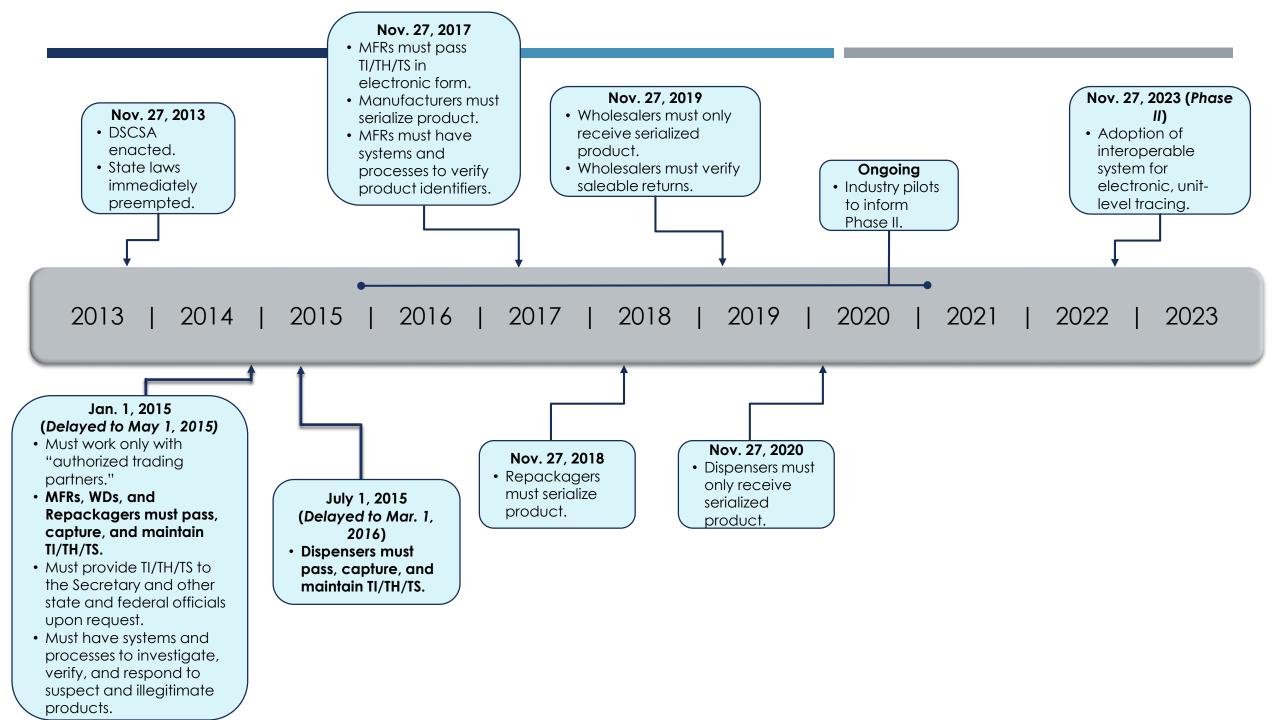
THE DRUG SUPPLY CHAIN SECURITY ACT (DSCSA): PRIOR WORK AND FUTURE DIRECTIONS

THE PHARMACEUTICAL DISTRIBUTION SECURITY ALLIANCE (PDSA)

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DSCSA: A BRIEF OVERVIEW

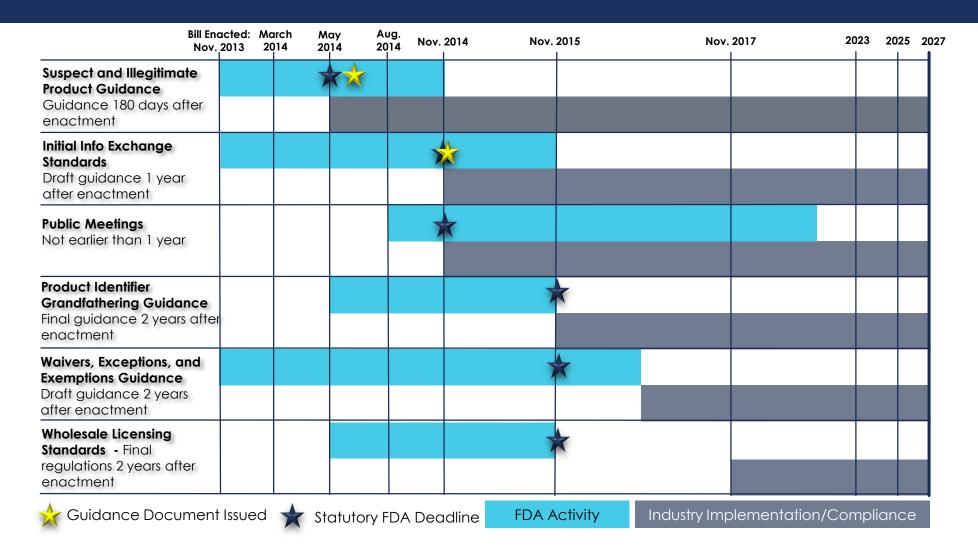
- Rationale
 - Threats to security and patient safety
 - Potential benefit of serialization to improve effectiveness of standard recalls
 - A mixed, inefficient response from the states
- Who's covered?
 - Manufacturers, repackagers, wholesale distributors, 3PLs (licensure), and Dispensers
 - "Dispensers" includes both pharmacies and providers; individual HCPs are excluded for the most part
- Scope
 - The traceability requirements generally apply to each "transaction" of a "product"
 - Product: prescription drugs in finished dosage form
 - Transaction: the transfer of product between persons in which <u>change of ownership</u> occurs



DSCSA: ACTIVE PHASE 1 REQUIREMENTS

- What is exchanged?
 - Transaction Information (TI)
 - Transaction History (TH) a statement in paper or electronic form, including the transaction information for each prior transaction going back to the manufacturer of the product
 - Transaction Statement (TS) a statement in paper or electronic form, that the entity transferring ownership in a transaction
- Phase 1: For dispensers July 1, 2015 (delayed to March 1, 2016)
 - Entities must work only with "authorized trading partners"
 - Entities must provide TH/TS/TI to the Secretary and federal officials upon request
 - Entities must capture, and maintain, certain information with respect to each product transaction
 - Entities must have systems and processes to investigate, verify, and respond to suspect and illegitimate products

FDA IMPLEMENTATION OF DSCSA



THE PHARMACEUTICAL DISTRIBUTION SECURITY ALLIANCE PAST WORK PRODUCT – DSCSA PHASE 1

EVOLUTION OF PDSA

- Initially convened to address threat of CA pedigree system, PDSA worked closely with Congress, FDA and other stakeholders to propose and pass the DSCSA.
- After the DSCSA law was signed on Nov. 27, 2013, PDSA shifted its focus to implementing the new law. Areas of focus have included:



PDSA REQUIREMENTS EXERCISE

Best Practices

Operational Know-How and Problem Solving

Intel and Insight Sharing

Broader statutory context

PDSA WEBSITE: FDA SUBMISSIONS & OTHER DSCSA RESOURCES

Learn More → PDSA LETTER RE: DSCSA GUIDANCE AND PROCESS FOR EXCEPTIONS AND GRANDFATHERING CONTACTUS Source: PDSA The PDSA is interested in hearing PDSA and its members have considered and evaluated what we believe to be the most appropriate approaches to exceptions and grandfathering. PDSA offered these comments and suggestions to FDA to assist the... Learn More → Read More → PDSA LETTER RE: DSCSA GUIDANCE AND PROCESS FOR EXEMPTIONS AND WAIVERS Source: PDSA PDSA and its members have considered and evaluated what we believe to be the most appropriate approaches to exemptions and waivers. PDSA offered these initial comments and suggestions to FDA to assist the... Read More → PDSA LETTER RE: DSCSA 0&A Source: PDSA Since the enactment of the DSCSA members of PDSA have identified a number of questions that are not clearly answered by the plain language of the DSCSA and create operational Read More →

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PDSA LETTER RE: IMPLEMENTATION OF THE JANUARY 1, 2015 DSCSA REQUIREMENTS

Source: PDSA

Given the interconnected nature of the supply chain, we are encountering a large degree of uncertainty and challenge regarding January 1, 2015 implementation across all sectors of the supply chain. As with

THE DRUG SUPPLY CHAIN SECURITY ACT

UPCOMING REQUIREMENTS - PHASE I AND PHASE II

DSCSA: UPCOMING PHASE I REQUIREMENTS

Four years after enactment (November 27, 2017)

- Manufacturers must begin passing TH/TS/TI in electronic form.
- Manufacturers must begin serializing product.
 - Other trading partners must engage only in transactions involving serialized product.
 - Wholesalers (Nov. 27, 2019)
 - Dispensers (Nov. 27, 2020)
- Manufacturers must have systems and processes to verify the product identifier and SNI of suspect products upon request by a trading partner.
 - Repackagers (Nov. 27, 2018), Wholesalers (Nov. 27, 2019), and Dispensers (Nov. 27, 2020) must incrementally have such systems and processes also.

SERIALIZATION REQUIREMENTS BY SECTOR

2017: Manufacturers

Affix PI/SNI to Products

Verify SNI of Suspect Products

Verify SNI of Saleable Returns

Respond to Requests for Verification 2018: Repackagers

Affix PI/SNI to Products

Verify SNI of Suspect Products

Verify SNI of Saleable Returns

Respond to Requests for Verification 2019: Wholesale Distributors

Only Engage in Transactions with PI/SNI

Verify SNI of Suspect Product

Associate/Verify TI/TS of Saleable Returns

2020: Dispensers

Only Engage in Transactions with PI/SNI

Verify the PI/SNI of at least 3 packages or 10% of suspect product, whichever is greater, or all packages, if fewer than 3

DSCSA: PHASE II - 2023 OBLIGATIONS

Ten years after enactment

- Phase II is self-effectuating, but the FDA is required to publish regulations and guidance clarifying the requirements.
- Product identifiers will be utilized to electronically pass the required information.
- Information passed will allow product to be traced at the package level.
- Transaction history is replaced with a "one up, one back" data packet.
- Requires systems and processes for package-level verification.
 - Not intended to require authentication of each package.
 - May require use of aggregation and inference.
- Entities must associate TI and TS for saleable returns.

CURRENT PDSA WORK PRODUCT

PHASE II: MIGRATION TO INTEROPERABLE SYSTEM FOR ELECTRONIC UNIT LEVEL TRACING

PDSA: MIGRATION WORK STREAM



and Business

Viability

Evaluation

Possible PDSA 4Q16 and 1Q17 Activities

PDSA: MIGRATION PROCESS

Objectives:

- 1. Identify, describe, and document multiple alternative models or systems that could be used to satisfy the statutory requirements in Phase II (2023) of the DSCSA.
 - "Model" means the structure/location of the data repositories—where the data resides, who
 creates the data, and how the data moves. Distributed databases that utilize a hub is one
 example of a model.
 - "System" means the technological transmission infrastructure and mechanism used to exchange and/or discover information between or among data repositories. EPCIS communication, for example, may be one part of a system.
 - It is assumed that some type of distributed model will be used.
- Evaluate the pros, cons, and viability of the alternative models and systems identified.
- 3. Identify specific issues related to Phase II for which PDSA should seek policy positions or guidance from FDA.

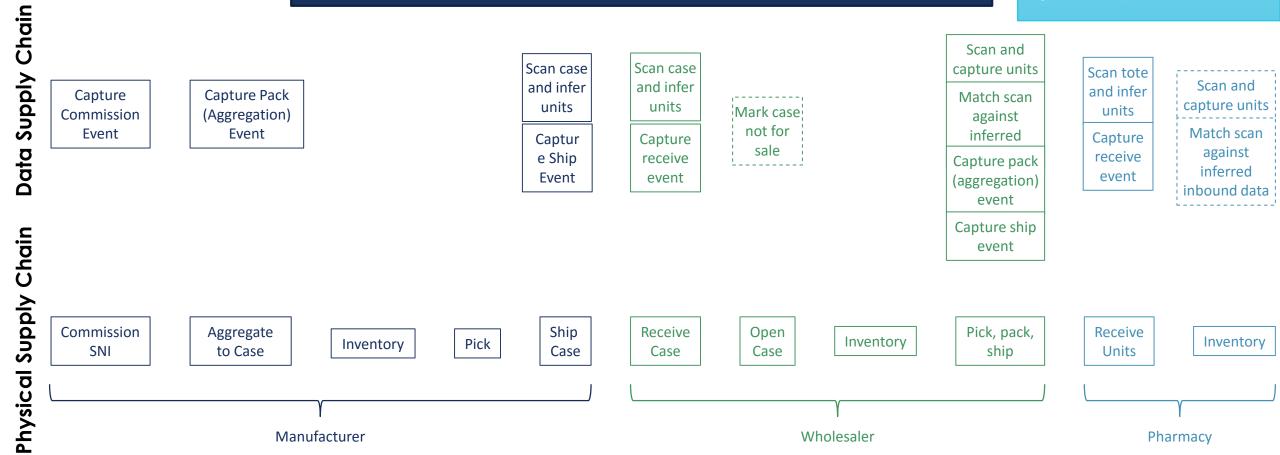
SCENARIO 1—WHOLESALER OPENS CASE

Data for each transaction:

- A transaction identifier (e.g., order number) and date/time stamp
- Transaction information: Product name; strength/dosage; NDC; container size; number of containers; lot; transaction date; shipment date*; name/address of seller; name/address of buyer
- Parent-child data (i.e., SNIs)
- Transaction statement

Assumptions

- Aggregation is only a mechanism to enable inference.
- Parent-child data is moot when the case seal is broken/opened
- "Cases" are sealed, homogenous cases with security features.
- Business processes identified are not necessarily statutory requirements.
- A 3PL may perform any of the processes on behalf of a MFR, WD, or dispenser, which is then governed by contract.



PDSA: VITAL ROLE AND BENEFIT FOR DISPENSERS

to serialization and traceability.

With dispenser capabilities and perspective represented, the supply chain is better able to craft an optimal information exchange model for 2023. To find the best solution, we need dispensers at the table. By participating in these discussions, dispensers can better align their own business practices with coming supply chain changes—and get a sense of how others are complying. Coalitions succeed when all stakeholders drive a consensus solution. PDSA continues to be the right forum to represent the full cross-section of industry. Practically speaking, collaboration with other supply chain participants can facilitate visibility into and partnership opportunities for upcoming pilots.

PDSA provides participants access to the most timely, accurate, and valuable information related

PDSA MEMBER ORGANIZATIONS























































