

Orchestrating ASN Data Exchange for Track & Trace and Commercial Business Purposes

Beth Bernick
Manager, Center of Excellence



Objectives

- Review why we use ASNs to support Lot Level reporting in DSCSA
- Understand why we are transitioning to EPCIS as we evolve through the law to EDDS
- Examine why ASNs are a critical transaction in the Life Science supply chain and why they will continue to be needed



Evolution of DSCSA Reporting



DSCSA Nov 2013 - Nov 2023*

Transaction Information (TI)

Product details
NDC, name, strength, dosage form

Container size, number of containers

Lot number

Date of transaction and date of shipment
(if more than 24 hrs after transaction date)

Business name *from whom* and *to whom*
ownership is being transferred

Transaction Statement (TS)

Transaction History (TH)

Why use ASN?

Transaction Information (TI)

Product details
NDC, name, strength, dosage form

Container size, number of containers

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(if more than 24 hrs after transaction date)

Business name *from whom* and *to whom*
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Transaction Statement (TS)

Transaction History (TH)

ASN Includes

Shipment number, date,
and expected delivery

“Ship from” and “ship to” party details

Purchase order number

Shipment tracking Information

Item details such as SKUs and
quantities shipped

Added

Transaction Statement (TS)

Transaction History (TH)

Why use EPCIS?

Transaction Information (TI)

Product details
NDC, name, strength, dosage form

Container size, number of containers

Lot number

Serial number

Expiration date

Date of transaction and date of shipment
(if more than 24 hrs after transaction date)

Business name *from whom* and *to whom*
ownership is being transferred

Transaction Statement (TS)

EPCIS Includes

What: EPC List, parent ID, child EPCs

When: Event time, event timezone offset

Where: Read point, business location

Why: business step, disposition,
business transaction, source, destination

Added

Transaction Statement (TS)

Benefits of the ASN

History of EDI

1975-81:

ANSI X12 Standard
formally documented

1960's:

US transportation
industry developed
electronic cargo
message

2000's:

SFTP and AS2 protocols
enhances easy, secure, cost
effective exchange

EPCIS Gaps

EPCIS message does not include:

- Carrier details
- Shipment dimension details
- Scheduled delivery dates
- Additional instructions
- Total quantities useful in receiving

Carrier Detail (Quantity and weight)	Level - Shipment Used to specify the transportation details relative to commodity, weight and quantity	TD1	TD1*CTN25*3****G*6.9*LB~
Carrier Detail (Routing & Transit time)	Used to specify the carrier and sequence of routing	TD5	TD5****M*FEDEXGROUND~
REF Information (Bill of Lading Number or carrier Reference Number)	Identifying information, includes the Bill of Lading number or Carrier's Reference number	REF	REF*CN*SPR02712345~ REF*BM*123453936811941~
DTM Date/Tim Reference	To specify pertinent dates and times Ship date and Scheduled Delivery date	DTM	DTM*011*20150422~
FOB Transportation Instruction	Transportation instructions relating to the shipment.	FOB	FOB*CC~

Supply Chain Challenges

Have materials been delivered?

MAH

Is it full or partial?

Can I get my prescription?

CMO

Has my order shipped?

Wholesaler

When is it expected?

Patient

What was shipped?

How much is coming?

Dispenser

What was shipped?

ASN Benefits

Reduces penalty fees for late start of line production

MAH

Decrease in chargebacks for late or incomplete deliveries

Can I get my prescription? YES

CMO

Minimize discrepancies between shipped and ordered goods

Wholesaler

Improve transparency of ship status and arrival times

Patient

More efficient receiving process

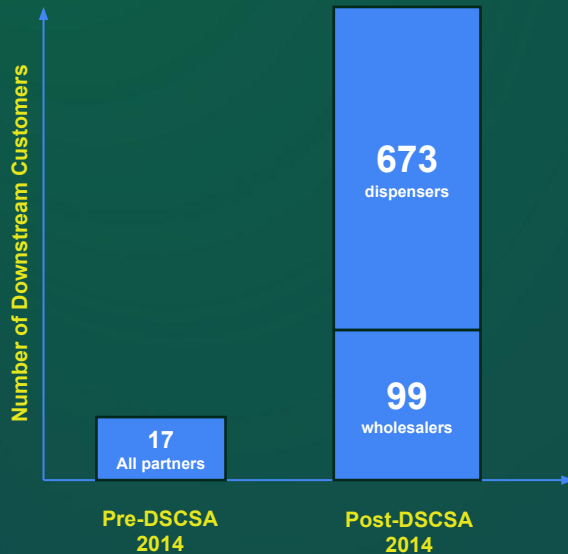
Allocate inventory space, dock space, and labor in advance

Dispenser

Advance inventory update for better stock control

DSCSA ASN was the beginning of the widespread requirement for many more digitalized transactions to every commercial partner.

Number of Advance Ship Notice (856)
B2B Integrations



Real data based on a large, diversified MAH

- Point-to-point EDI is expensive to build and continuously maintain
- Point-to-point EDI takes too long to implement for every partner
- Not all partners will be capable of implementing EDI
- **TraceLink's Integrate-Once, Interoperate with Everyone Network™** is proven to be fast, cost-effective, and painless to maintain

Key Takeaways

1. While addressing compliance needs, ASNs have also been driving efficiencies in the supply chain through advanced notification for logistics procedures.
2. EPCIS will provide the necessary serialized data points described in EDDS but it will not provide the enhanced supply chain visibility many organizations have to come to rely on from the ASN.
3. ASN usage will continue to be needed for effective supply chain processes going forward which TraceLink can easily support, adopt, and expand beyond compliance relationships.

A hand is shown from the bottom, holding a glowing, wireframe globe of the Earth. The globe is surrounded by a complex network of white lines and dots, representing a global network or data flow. The background is a blurred cityscape. The text "Thank You." is centered over the globe in a bold, dark blue font.

Thank You.