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The **1** Conference





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**1EDI**source™

# Introduction to the ASN

Presenter: Nancy Otto







# Ground Rules

-  Please silence your phones
-  Questions are encouraged anytime
-  Presentation will be followed by a Q&A
-  Come see me in the ReSource Center

# About Me

- 1 3 years experience with 1 EDI Source
  - 1 Began in Managed Services as EDI Consultant
  - 1 Transitioned to Solutions Architect role
- 1 15 years experience with a major national trucking company
  - 1 Experience in and around all aspects of EDI in transportation industry

# Agenda

-  What is an ASN?
-  What are the Benefits of an ASN?
-  Common Barcodes Used
-  Packing Methods
-  Solving for ASN's
-  Business Case

# What is an ASN?

- 1 Advance Ship Notice – 856 transaction
  - 1 Lists the contents of the shipment
  - 1 Order information
  - 1 Product description (physical characteristics, type of packaging, etc.)
  - 1 Carrier information
  - 1 Configuration of goods

# What are the Benefits of an ASN

- 1 Notification to the customer that the order has been shipped
- 1 Provides advanced knowledge of items, quantities, etc.
- 1 Allows for automation of the receiving process and defines the shipment

# Structure of an ASN

An ASN is comprised of Hierarchy Levels

## **S - Shipment**

*Single truck with a Bill of Lading Number*

Only one per ASN

## **O - Order**

*What is on the truck?*

Usually defined by the PO number

## **T - Tare (Pallet)**

*Defined by a serial number for each pallet*

Could be assigned to a single order or multiple orders

## **P - Pack (Carton)**

*Defined by either a serial number or case pack barcode that is on a pallet or belongs to an order*

## **I - Item**

*Defines the item that is inside of the carton or on the pallet*

# Sample ASN Document

BSN\*00\*00378457\*20130727\*075119\*0001\*AS

HL\*1\*\*S\*1

Shipment Level

TD1\*PLT94\*1\*\*\*\*G\*457\*LB

TD5\*\*2\*ABFS\*\*ABF FREIGHT SYSTEMS\*CC

REF\*BM\*7000829072

REF\*CN\*0027817537\*00378457

DTM\*011\*20050727

N1\*ST\*MCKESSON DRUG\*11\*SL0001509

N3\*5960 EAST SHELBY DRIVE

N4\*MEMPHIS\*TN\*38141

N1\*SF\*TEST COMPANY \*11\*AA5424686

N3\*1234 ARDMORE RD

N4\*LOS ANGELES\*CA\*90210

HL\*2\*1\*O\*1

Order Level

PRF\*8874643298\*\*\*20130726

HL\*3\*2\*T\*1

Tare Level

MAN\*GM\*00100897650001013169

HL\*4\*3\*P\*1

Pack Level

MAN\*GM\*00000897659809808676

HL\*5\*4\*I\*0

Item Level

LIN\*064\*ND\*58177002804\*UP\*089765327338\*LT\*67866

SN1\*\*6\*EA\*\*\*\*\*AC

PO4\*12

HL\*4\*3\*P\*1

MAN\*GM\*00000897659809808681

HL\*6\*4\*I\*0

LIN\*065\*ND\*58177003004\*UP\*089765656569\*LT\*66041


SN1\*\*4\*EA\*\*\*\*\*AC


PO4\*12

CTT\*6



# Barcodes and Labels

 Barcoding products, cartons, pallets makes the process for the receipt of goods much easier.

 There are different types of barcodes that are utilized depending upon what is being scanned.

UCC (Uniform Code Council)

**GS1 (Global Standards 1) (Formally known as the UCC)**

UPC (Universal Product Code)

EAN (European Article Number)

**GTIN (Global Trade Item Number)**

# Sample Labels



**GTIN-14  
(UCC-14) (I 2of5)**



**GTIN-12  
(UPC-A)**

<b>FROM:</b> VENDOR CORPORATION #67890-0 11034 ANY STREET DALLAS, TX 75229
<b>TO:</b> Customer #2473-7 1201 WEST OAK MALL HOUSTON, TX 77082 420 77082 
<b>PO#: 3597675</b>
<b>CARTON 01 OF 01</b>
(00) 0 1234567 000000069 5 

**GS1-128  
(UCC-128) (SSCC-18)**

# Importance of GS1-128 Labels

- The label physically ties the shipment to the ASN.
  - GS1-128 number is sent within appropriate HL (hierarchy levels)
  - Scanning of GS1-128 labels allows automated receiving and validation against ASN and order
  - What happens if ASN is late, not sent, or contains inaccurate information?

# Penalties Associated with ASN

- 1 Fines and deductions by customer for failing to meet trading partner requirements.
- 1 Can be enforced for faulty data transmissions, faulty barcodes, improper placement of labels.
- 1 Errors impact supplier scorecards.



# Standard Pack

- 1 Standard Pack methods are used when only a single item is put inside of a carton
- 1 Can be a quantity of one per carton
- 1 Can be a quantity of two or more per carton of the same item



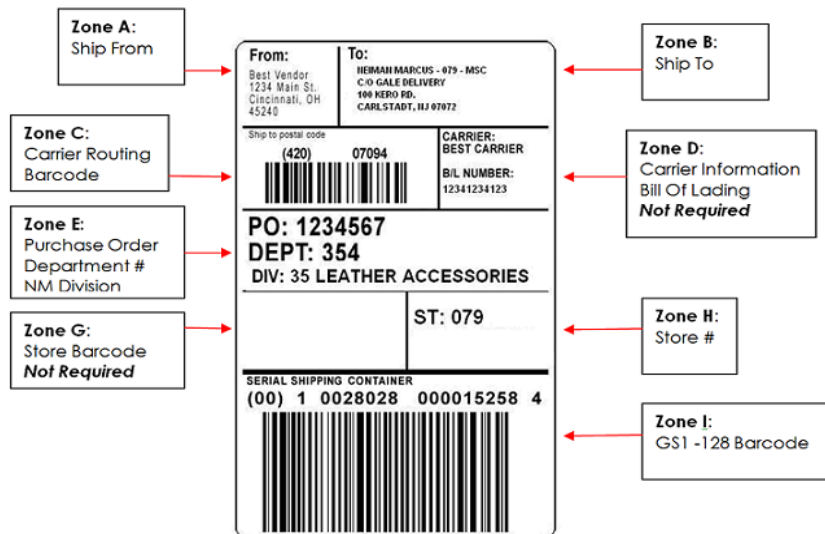
# Standard Pack Labeling

## 1 Standard Pack Labeling

1 Standard Pack labeling generally consists of using a GTIN-14

1 The GTIN-14 is sent in the Pack hierarchy

1 The GS1-128 label is sent in the Tare hierarchy



# Pick and Pack

- 1 Pick and Pack methods are used when multiple items are put inside a carton.
- 1 Pick and Pack methods are multiple items inside a single carton.
- 1 Unlimited items can be put inside the carton (pens and staplers packed together)



# Pick and Pack Labeling

- 1 Pick and Pack Labeling **must** utilize a GS1-128 in the Pack hierarchy
- 1 Pallet level GS1-128 label can be used within the ASN the Tare hierarchy
  - 1 This is dependent upon the EDI specifications of the trading partner





# Questions?


Next Topic

**SOLVING FOR ASN**

# Solving for ASN

- 1 EDI/PX – web portals
- 1 Third Party Logistics Companies
- 1 Warehouse Management Systems
- 1 ERP Built-in Warehouse Modules

# EDI/PX

 EDI/PX Partner Exchange is a web based exchange portal between you and your non-EDI vendors, customers and/or suppliers.

 Pros:

 Inexpensive way to increase EDI volume and take advantage of automation

 Fully managed, web hosted solution

 Can be quickly implemented

 Cons:

 Manual entry may be required

 Per document charge

# Third Party Logistics

1 Third Party Logistics, or 3PL's, firm that provides outsourced services to companies for supply chain management.

1 Pros:

1 Fully managed solution

1 3PL has some accountability and liability, as well as access to transportation

1 Easier to scale

1 Cons:

1 More complex integration

1 Higher cost

# WMS

- 1 Warehouse Management System is an inventory management system that handles all aspects of inventory movement, from receipt to shipping.
- 1 Pros:
  - 1 Either is part of or interfaces with ERP system
  - 1 Increased control and visibility
- 1 Cons:
  - 1 Costly and time consuming to implement
  - 1 Managed and maintained, internally by you

# Questions?

Next Topic

EDI/PX DEMONSTRATION

# Questions?

Much more information available at:

[wiki.1edisource.com](http://wiki.1edisource.com)

Email [wiki@1edisource.com](mailto:wiki@1edisource.com) if you need a  
login to the wiki