Welcome to Auto ID: The Control Link

Supply chain related technologies serve two purposes:

1. Better Control
   - Better management
   - Higher profits

This Class

1. Standards and Information Elements
2. The Communication Cycle
3. Benefits to the Trading Partners

Auto ID: The Link Between Inventory and Supply Chain Control.

We hope you will find this narrated class and the written support materials helpful.

This presentation takes approximately 15 minutes to view. You do not need to view it all at one time. You can view one section and return to see others.

Please take a moment to make sure that your speakers are turned on.

When you are ready, click the arrow to begin the presentation.

Benefits to the Trading Partners

Much More Information

We are dedicated to knowledge sharing.

Links:
- GS1 (http://www.gs1us.org/Default.aspx)
- Trade Associations Using Standards
- Magazines and Periodicals

This Class

1. Standards and Information Elements
2. The Communication Cycle
3. Benefits to the Trading Partners
This Class...

- Deals With Supply Chain Flow, Not Point of Use or Point of Sale

This Story Begins...

U.P.C. Scanned

Demand Created

Order Generated

Benefits to the Trading Partners

Standards and Information Elements

The Communication Cycle

Introduction

It Is More Than Just Bar Codes

- Standard Part Numbers
- Bar Codes
- Electronic Documents
- Communications Media

Add it together, use the internet, and it's called e-Commerce

What's Involved In Communication?

- Purchase Order
- Manifest (ASN)
- Invoice
- Bar Coded Products

Transactions Cause / Result From:

- The flow of products
- Documents flow in and out

Transactions Require Documents

- Proof of what was ordered
- Proof of what was shipped
- Official notice for payment

The Goal Is to Reduce Transaction Costs

- Speed the flow of information
- Eliminate unnecessary steps
- Provide 100% accurate information
**Transaction Information Includes**

- What to send, pay for, add/delete from inventory
- How much – item quantity or payment
- Who to send it to; who to pay

**The Product ID -- the Number in the Bar Code -- is the Link**

- It is necessary when:
  - Placing an order
  - Adding or deleting from inventory
  - Requesting or making a payment

The GS1 calls this product ID a Global Trade Item Number (GTIN)

**Standards are an Agreement on the Fundamental Data Elements**

- A written guide that links labels and bar codes to data elements
- A written guide that links data elements to documents and files
- A written guide that permits synchronization of inventory and other records and files

**Standards Enable Any Company to Map the Fields of Information Into a Printed or Electronic Document**

- **Computer Field**
- **Printed Document**
- **Electronic Document**

**Label Field to Document Map**

- GTIN Bar Code: PDD Column C
- Color Code: PDD Column I
- Case Quantity: PDD Column N
- Case ID Bar Code: ASIN Field 65
- Revision ID: ASIN Field 71
- Manufacturer: ASIN Field 75
- Color Description: PDD Column J
- Size Code: PDD Column K
- Country of Origin: ASIN Field 77
- Style: PDD Column G
- Lot ID: ASIN Field 74
Standard Files Simplify Input to a Database

Different Methods of Product Identification and Document Communication
- GS1 retail, industrial, commercial
- AIAG Automotive
- Spec. 2000 Airlines
- LOGMARS Department of Defense

The GS1 Standard
- Used throughout the world
- Designed for general trade items
- Provides a unique identification number for each different item at each different level of packaging for that item (shipping container, intermediate pack and item).

To Summarize
- Industry and company standards for:
  - Product ID (number and bar code)
  - Shipment ID (ASN number and carton ID both in human readable and bar code)
  - Documents: Order, Product Descriptor Database, ASN, Remittance
**Introduction**

**Standards and Information Elements**

**The Communication Cycle**

**Benefits to the Trading Partners**

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### What does this give you?

- The ability to:
  - Capture
  - Track
  - Transfer
  - Use ...
- Real-time event-driven transaction information
- 100% accurate

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### 100% Accurate, Timely and Inexpensive Information

- Enables tighter control of product flow
- Better control and better information enables better management
- Better management of:
  - Inventory
  - Staff
  - Customers
  - Suppliers

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### Partnerships Drive Costs Out of the Supply Chain

- Partnerships Provide Standards That
  - Eliminate unnecessary processes
  - Enable the sharing of information
  - Enable 100% accurate information to flow

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### The Benefits From Bar Codes and Control

- Reduce expenses within a company then throughout the supply chain
- Technology providing seamless interaction
- Exchanging Inventory and Effort for Information
- Support Rapid Solution Deployment
- Business process focus on collaborative behavior
- Growth via Increased Market Share and Size

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**Thank You!**

- We hope that this has been helpful and that you will participate in other classes when they are offered.
- Please help us serve you better.
- Click to learn more about the Bar Code Implementation Guide

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[Help Us] [Click Here]