PTI Best Practice for Case Labeling

Official PTI Webinar
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Moderator

Angela Fernandez
- Senior Director, Industry Engagement at GS1 US
PTI milestones and target dates

1: Obtain a Company Prefix from GS1  
2: Assign GTINs to Cases  
3: Provide GTIN Information to Buyers  
4: Show Human-Readable Information on Cases  
5: Encode Information in a Barcode  
6: Read and Store Information on Inbound Cases  
7: Read and Store Information on Outbound Cases
Introduction to PTI Case Label

Mike Meagher

- Director of Technology Solutions
- C.H. Robinson Worldwide
- Participant on the PTI Implementation Working Group
About C.H. Robinson Worldwide

- Fresh produce industry leaders since 1905
- North America’s largest transportation provider
- $9bn annual revenues (2010)
- 8,300 employees
- 3,500 active trade partners in produce division
- 15,000 items across all major produce categories in product catalog
Goals of PTI Recommended Case Label

- implementing a barcode already widely used in the food industry;
- using existing GS1 Standard data for the barcode;
- minimizing the amount of information shown on the label;
- minimizing the size of the label;
- accommodating multiple case sizes;
- determining what information is necessary on the label;
- determining what information should be on the label vs. human readable (e.g. supplier/responsible party’s address, etc.); and
- providing receivers with standardized approach for system integration
Recommended Case Label

Watermelon, Red Seedless
24" Bin 36 Count

Global Trade Item Number (GTIN)

Batch / Lot Number
(assigned by owner)

GS1-128 Barcode

Voice Pick Code
Recommended Case Label

1. GS1 GTIN
   - Assigned by the Brand Owner

2. Batch/Lot Number
   - Assigned by the Brand Owner
   - May be up to 20 alphanumeric characters
   - No standard format is defined; this is a business decision
Considerations for Batch/Lot Number Assignment

- Shed Packed Product:
  - unique for each packer’s packing facility that does not cross a date boundary,
  - potential scope of a subsequent recall of product

- Field Packed Product:
  - location specific
  - potential scope of a subsequent recall of product if a date boundary is crossed
Recommended Case Label

3. GS1-128 Barcode
   - Using GS1 Application Identifiers or AIs
   - GTIN (01)
   - Batch/Lot Number (10)

4. Voice Pick Code
**Voice Pick Code**

**CRC-16 Hash Computation**

The voice pick code is a 4 digit number computed using the GTIN, Lot, and optional Date from a PTI Case Label representing a hash of this information. This computation is performed as follows:

1) **Compute Plain Text**
   a) Plain Text is the 14 digit GTIN appended by the Lot Code and the Date (where present) in that order.
   b) Do not include the application identifier, prefixes or parentheses
   c) There are no spaces between the GTIN, Lot and Date fields.
   d) Date if present is represented as YYMMDD with zero padding and no “/” characters
2) **Compute ANSI CRC---16 Hash of the Plain Text ASCII bytes using the standard ANSI CRC---16 hash with the polynomial of X^16 + X^15 + X^2 + 1**
3) **Compute the voice pick code by from the Hash by taking the 4 least significant digits in decimal form (Hash mod 10000)**.
4) **Print the two least significant digits large, and the two most significant digits small**
5) **Example:**
   GTIN = (01) 10850510002011
   Lot = (10) 46587443HG234
   Plain Text = 1085051000201146587443HG234
   CRC---16 Hash = 26359
   
   voice pick code = 6359
   Large Digits = 59 Small Digits = 63
Size of Case Label – Hand-Held

Narrow Bar Width: .00984" min – .0300" max

Quiet Zones: 10X Narrow Bar Width, .0984" min – .300" max

Barcode Width: 6.50" max (including Quiet Zones)
Size of Case Label – Fixed Position

- Narrow Bar Width: 0.0195" min – 0.0400" max
- Quiet Zones: 10X Narrow Bar Width, 0.195" min – 0.400" max
- Barcode Width: 6.50" max (including Quiet Zones)
Placement of the Case Label

- should appear on at least one side of the case

1.25\" (32.00 mm) Minimum

0.75\" (19.00 mm) Minimum
C.H. Robinson Worldwide Approach

- Committed to being PTI ready by the end of the year in order to meet the requirements of our customers.
- Service centers will have the ability to scan inbound/outbound product, generate SSCC tags, and print case labels when necessary.
- Using third-party solution for fully articulate ASNs (ANSI X2 856) in order to share pallet and case information electronically as well.
Receiving the PTI case label

Garry Bergstrom
- Director Produce & Floral, Business Development, Publix Super Markets
- Member of the PTI Leadership Council
About Publix Super Markets

- Privately owned and operated
- 149,000 employees
- 1,039 stores in Florida, Georgia, South Carolina, Alabama and Tennessee
- 2010 sales of $25.1 billion

The company has been named one of FORTUNE’s “100 Best Companies to Work For in America” for 14 consecutive years.
**Expectations: Produce Cases**

- Aligned with PTI case label guide
  - GTIN + Batch/Lot Number in GS1-128 barcode
- Publix has ability to also accept country of origin in the case barcode
  - Optional, if vendor wants to provide it, we can read it
- PTI recommends only 1 label on the case, Publix will also accept this, however we prefer two labels
Publix Super Market’s is SCANNING

- Began scanning inbound cases at DCs on Tuesday, September 5
- Vendors have ability to send electronic file with barcode for testing by Publix
- Will have duplicate systems in place for sometime
- Benefits are already being realized
PTI Best Practice Guide for Case Labeling

James Chronowski
- Global Standards Director, GS1 US
- Member of the PTI Technology Working Group
Best Practices for Case Labeling

- Updates:
  - Added RPC recommendations
  - Clarified hand-held and fixed position scanning
  - Added approved characters for Batch/Lot Number
- Release date for the updated Best Practices is by the end of this month, September 30
- Will be posted to the PTI website
Get Involved Today

- Join a PTI Working Group
  - Company must be a member of one of the 4 sponsoring associations: CPMA, GS1 US, PMA, and/or UFPA
  - Send email request to Patricia Buccheri at pbuccheri@gs1us.org

- Participate in a PTI pilot
  - Contact Ed Treacy at PMA etreacy@pma.com

- Learn more about how to implement the PTI at www.producetraceability.org
Q&A: To ask a question...

- Type it into the “Q&A” box
  - bottom right corner of your WebEx window
- Send your question to “all panelists”
- Questions are submitted anonymously, to protect participants’ privacy
Thank you!

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