

# PTI Best Practice for Case Labeling

*Official PTI Webinar  
September 20, 2011*



## *Moderator*

Angela Fernandez

- Senior Director, Industry Engagement  
at GS1 US



## ***PTI milestones and target dates***

1: Obtain a Company Prefix from GS1	2009
2: Assign GTINs to Cases	2009
3: Provide GTIN Information to Buyers	2009
<b>4: Show Human-Readable Information on Cases</b>	<b>2011</b>
<b>5: Encode Information in a Barcode</b>	<b>2011</b>
<b>6: Read and Store Information on Inbound Cases</b>	<b>2011</b>
7: Read and Store Information on Outbound Cases	2012



**CPMA<sup>™</sup>**  
**ACDFL<sup>™</sup>**



**United Fresh**  
PRODUCE ASSOCIATION

## *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

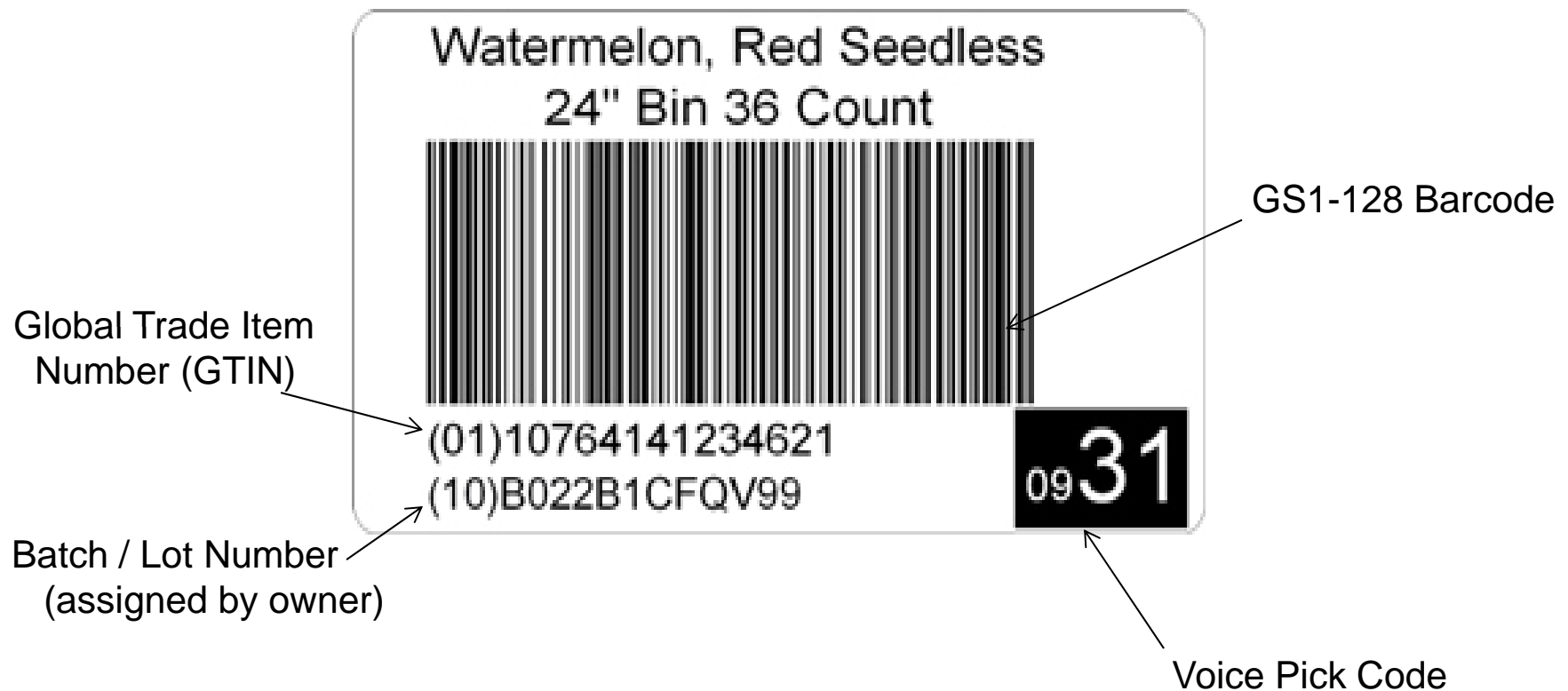


## ***Goals of PTI Recommended Case Label***

- 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



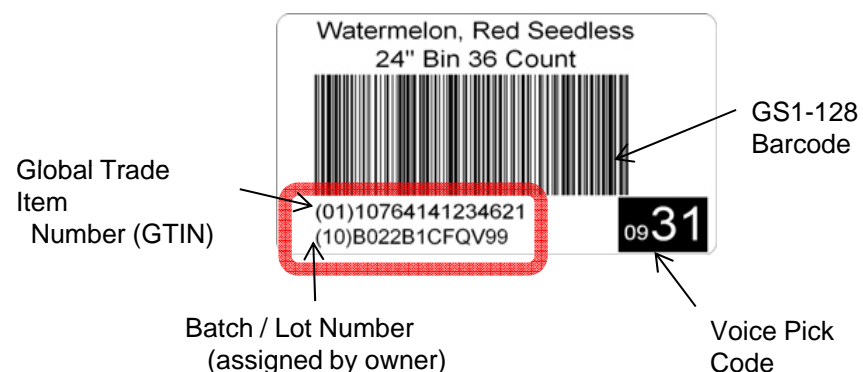
# Recommended Case Label

## 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



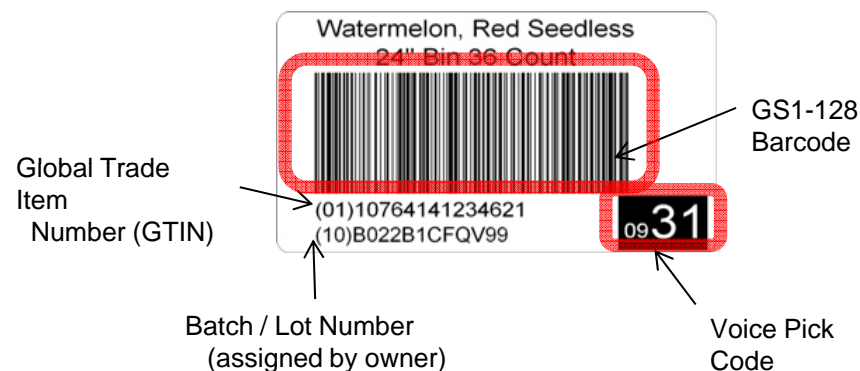
# Recommended Case Label

## 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 packing 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

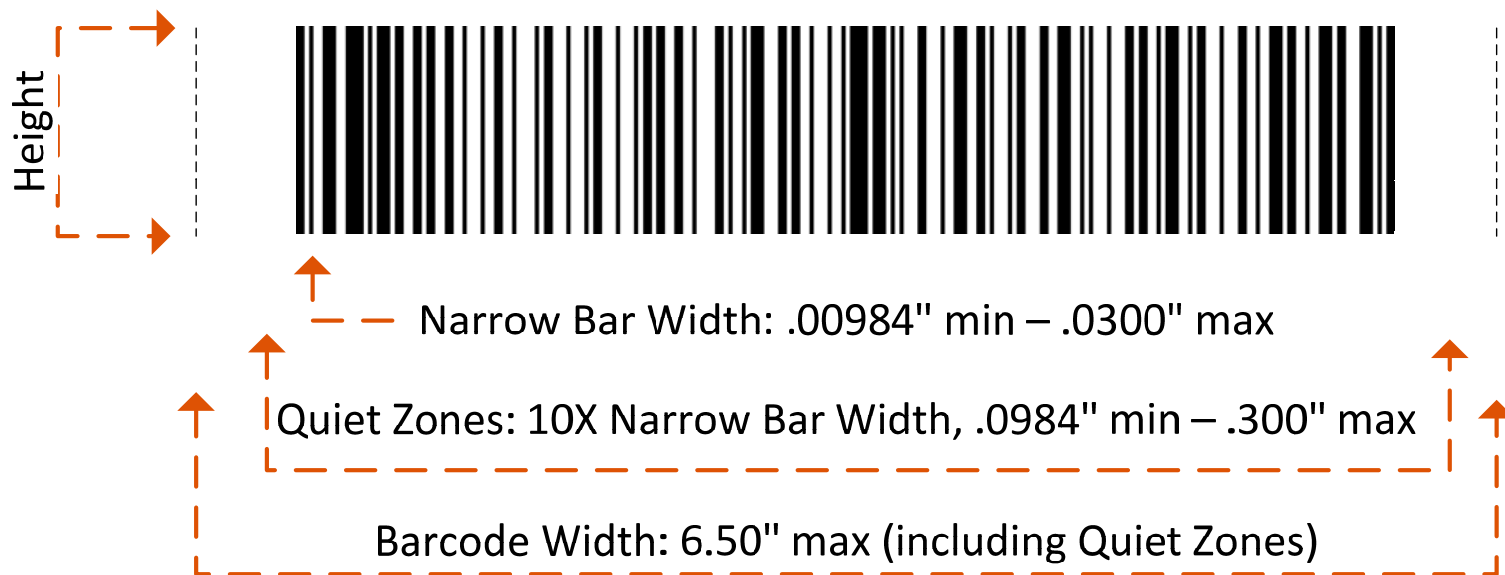
Plain Text = 1085051000201146587443HG234

CRC---16 Hash = 26359

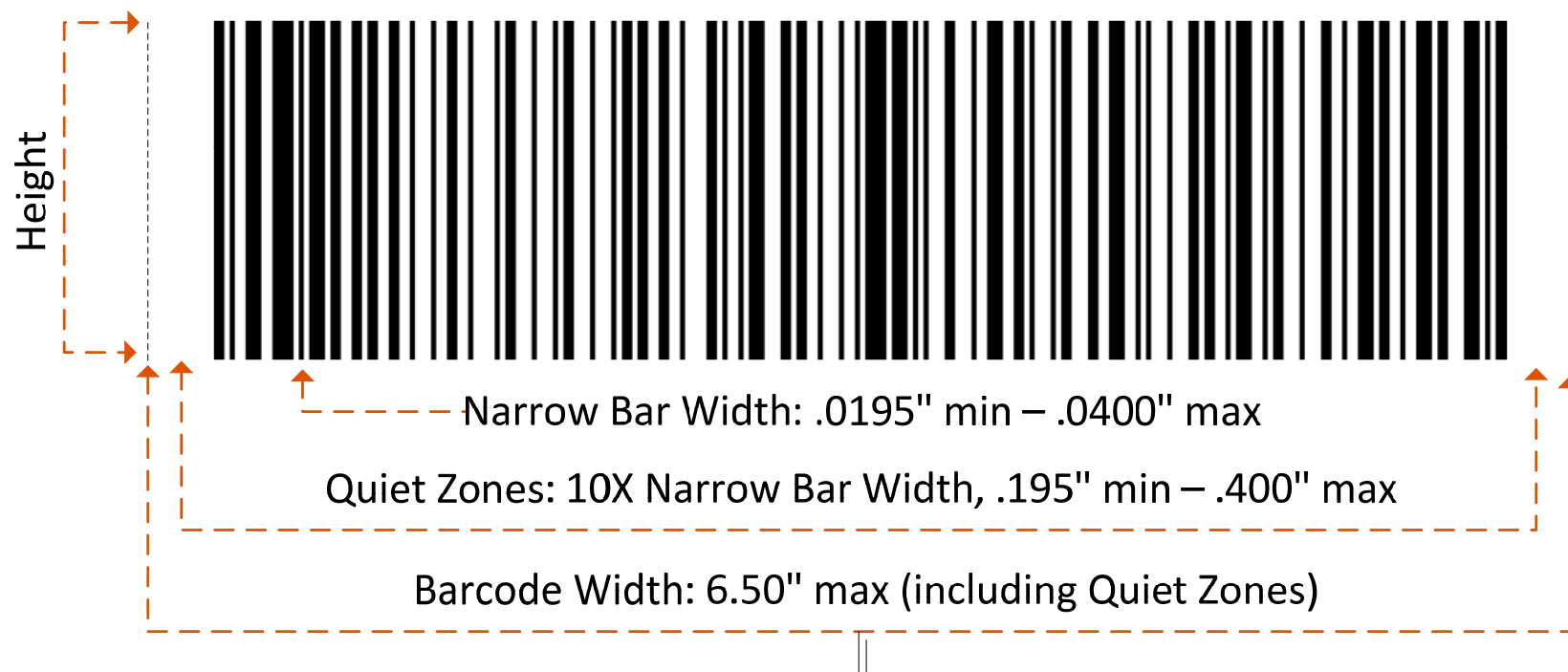
voice pick code = 6359

Large Digits = 59 Small Digits = 63

## Size of Case Label – Hand-Held

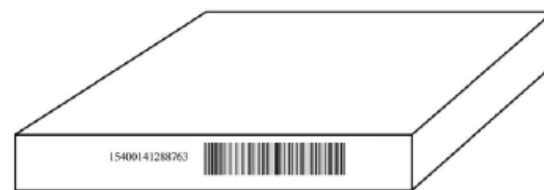
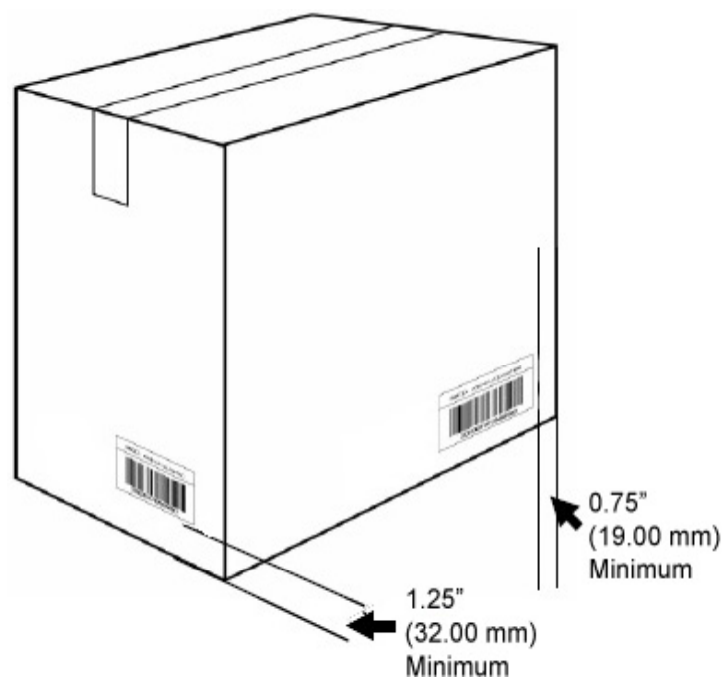


## *Size of Case Label – Fixed Position*



## *Placement of the Case Label*

- should appear on at least one side of the case



## ***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

Publix





## ***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](mailto:pbuccheri@gs1us.org)
- Participate in a PTI pilot
  - Contact Ed Treacy at PMA [etreacy@pma.com](mailto:etreacy@pma.com)
- Learn more about how to implement the PTI at [www.producetraceability.org](http://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!***

- © Produce Traceability Initiative
- Visit Events page for other webinar details
- Recording, slides posted to PTI website
- Live event participants: Take our survey

Visit [www.producetraceability.org](http://www.producetraceability.org)

