

# Tech-Enabled Traceability: Get Ready For FSMA 204 With GS1 Standards

Moderator: Norma Crockett, Director, Community Engagement GS1 US

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The Global Language of Business

# Tech-Enabled Traceability: Get Ready For FSMA 204 With GS1 Standards

Join Industry Leaders to Discuss What's Needed for Final Rule Compliance 6.15.2023

Norma Crockett, GS1 US Ryan Peters, Chick-Fil-A Brando Tijerina, Taco John's Stacie Sanders, ARCOP (Arby's Supply Chain Cooperative) Greg Cassens, Dot Foods



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\*If applicable



#### Meet the Speakers



Norma Crockett Director, Community Engagement Foodservice





**Greg Cassens** Regulatory Counsel





### Meet the Speakers



**Ryan Peters** Principal Program Lead, Supply Chain





**Brando Tijerina** Sr. Manager of Food Safety, QA and Commercialization





**Stacie Sanders** Sr. Manager, GS1, Systems Data Integrity and Re Distribution







#### GS1 US- Who We Are

- FSMA 204 Overview
- How GS1 Standards Can Help
- GS1 US Resources
- Speakers Journeys
- Speakers Discussion
- Get Started Checklist



Agenda

#### Who We Are

Speaker: Norma Crockett GS1 US Director, Community Engagement Foodservice Track



## One Common Language

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The only way businesses big or small can move forward is to work together. They need to be able to **understand each other** anywhere in the world.

Business requires a common language, and we make that possible.





More than **6 billion** 

GS1 barcodes are scanned everyday



GS1 US serves over

25

industries

GS1 US® serves more than **300,000 businesses** in the United States.



Over **1.5 million** companies around the world use GS1 Standards



Over
25 million

products are assigned U.P.C.'s in the GS1 US Data Hub Product Tool





GS1 is made up of 110+ member organizations

....

serving businesses around the world More than **30 million** 

products are registered by brand owners in the GS1 Global Data Synchronization Network<sup>™</sup> (GDSN)



# FSMA 204 Overview

Speaker: Greg Cassens Regulatory Counsel for Dot Foods



### **Regulation Overview**

- Outlines additional recordkeeping requirements
- Defines foods that are subject to additional traceability requirements (<u>Food Traceability</u> <u>List (FTL)).</u>
- Companies that perform certain supply chain events are required to keep and share traceability records with the FDA within 24 hours of request
- Companies must create and maintain updated records of their general traceability plan.
- Rule effective date: January 2023
- Compliance date: January 2026







Cheeses, other than hard cheeses



**Leafy Greens** (Fresh cut)



Fruits (Fresh cut)



Shell Eggs



**Melons** (Fresh)

**Vegetables** 

other than

**Leafy Green** 

(Fresh cut)



Nut **Butters** 



**Peppers** (Fresh)

Fin fish

(Fresh,

Frozen, and

Smoked)



**Cucumbers** 

**Sprouts** (Fresh)

**Ready-to-Eat** 

(Refrigerated)

**Deli Salad** 



Herbs

(Fresh)

(Fresh)





Molluscan shellfish, **bivalves** (Fresh & Frozen)







**Leafy Greens** (Fresh)



**Tropical Tree** Fruit (Fresh)



## Share: Critical Tracking Events / Key Data Elements



**Critical Tracking Events** are activities in the supply chain that must be recorded by the capture of key information about a business step for product movement in the supply chain. Typically, these events involve a product's transformation, shipping, or creation.

**Key Data Elements** are the attributes to describe/support the critical tracking event; this data answers the What, Where, When, Who and Why of the event.

#### Link within published rule



## **Critical Tracking Events**

- Harvesting (Raw agricultural commodities (RACs) not obtained from a fishing vessel)
- 2. **Cooling** (RACs not obtained from a fishing vessel)
- **3. Initial Packing** of RACs (other than a food obtained from a fishing vessel)
- 4. First Land-Based Receiver (food obtained from a fishing vessel)
- 5. Shipping (maintain and provide)
- 6. Receiving
- Transformation FTL food(s) used as ingredient(s) and new food produced



nufacture, process, pack, or hold foods on le to their supply chain partners specific itical tracking events (CTEs) in the food's effective and efficient tracing and clearly prm such tracing.

d under the rule varies depending on the type an FTL food, from harvesting or production pt at retail or other point of service. Central rding, and sharing of traceability lot codes for nformation identifying the foods as they move

ith a list of KDEs required for each CTE





## First Land-Based Receiver

#### **Required KDEs**

- Traceability lot code you assigned
- Species and/or acceptable market name for unpackaged food, or the product description for packaged food
- Quantity and unit of measure of the food
- Harvest date range and locations for the trip during which the food was caught
- Location description for the first land-based receiver (i.e., traceability lot code source), and (if applicable) traceability lot code source reference
- Date the food was landed
- Reference document type and reference document number



## Receiving

#### **Required KDEs**

- Traceability lot code for the food
- Quantity and unit of measure of the food
- Product description for the food
- Location description for the immediate previous source (other than a transporter) for the food
- Location description for where the food was received
- Date you received the food
- Location description for the traceability lot code source or the traceability lot code source reference
- Reference document type and reference document number



## Shipping

#### **Required KDEs**

- Traceability lot code for the food
- Quantity and unit of measure of the food
- Product description for the food
- Location description for the immediate subsequent recipient (other than a transporter) of the food
- Location description for the location from which you shipped the food
- Date you shipped the food
- Location description for the traceability lot code source or the traceability lot code source reference
- Reference document type and reference document number (maintain only)

Note: This section does not apply to the shipment of a food that occurs before the food is initially packed (if the food is a raw agricultural commodity not obtained from a fishing vessel)



## Transformation

#### **Required KDEs**

FTL food(s) used as ingredient(s)

- Traceability lot code for the food
- Product description for the food to which the traceability lot code applies
- For each traceability lot used, the quantity and unit of measure of the food used from that lot

#### New food produced

- New traceability lot code for the food
- Location description for where you transformed the food (i.e., the traceability lot code source), and (if applicable) the traceability lot code source reference
- Date transformation was completed
- Product description for the food
- Quantity and unit of measure of the food
- Reference document type and reference document number



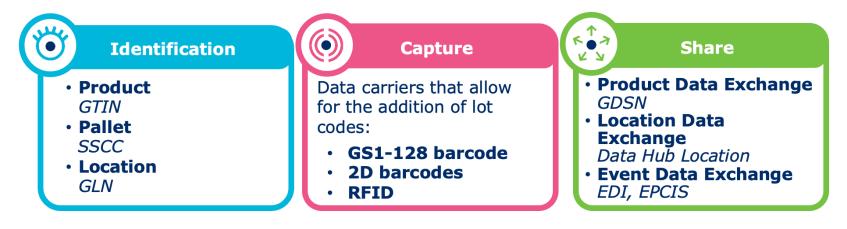
### How GS1 Standards Can Help

Speaker: Norma Crockett GS1 US Director, Community Engagement Foodservice Track



## Leverage GS1 Standards for FSMA 204







## GS1 US Solution: ASNs and SSCCs

#### **GTIN + Date + Lot**





## GS1 US Solution: EPCIS 2.0



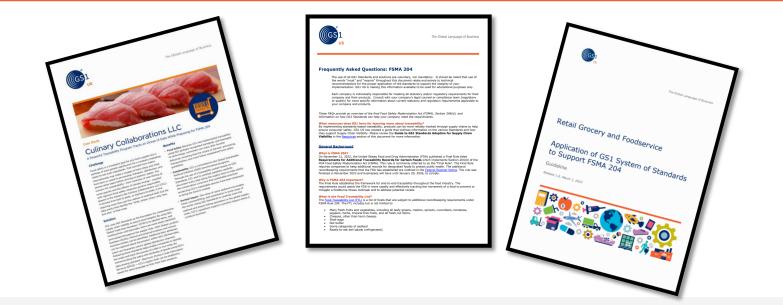


### GS1 US Resources

Speaker: Norma Crockett GS1 US Director, Community Engagement Foodservice Track



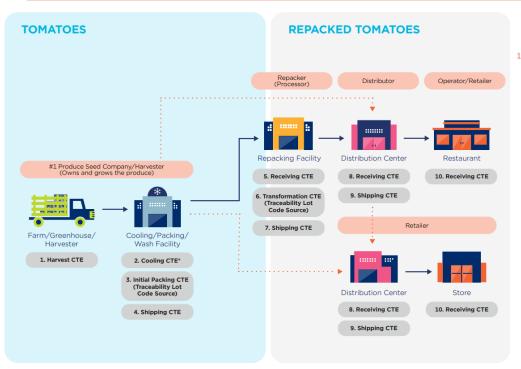
### GS1 US FSMA 204 Resources



#### https://www.gs1us.org/industries-and-insights/byindustry/foodservice/standards-in-use/food-safety#fsma



## Supply Chain Process Flow Examples



- Produce is picked in the field of Produce Seed Company/Harvester and placed into totes -Harvest CTE
  - Produce totes can be comingled with similar items from other farms and lot/batch numbers should be assigned
  - b. Produce undergoes sorting/grading and is placed into additional totes
  - c. GTIN is assigned to produce
  - d. GLN identifies Farm/Greenhouse (harvest location)
  - e. Produce totes are taken to a Packing House owned by the farm
  - f. GLN identifies Packing House





#### Applying GS1 Standards to Support FSMA 204

This implementation guideline was prepared by the GS1 US FSMA 204 Workgroup to assist the United States' food industry with implementing GS1 Standards for traceability and specifically to help meet the requirements outlined in the Final Rule.

Download the Guideline  $\rightarrow$ 

#### FSMA 204 Final Rule has been published and GS1 Standards can help you prepare. Start now to meet the deadline of January 2026.

#### GS1 US Resources for FSMA 204

GS1 US Initiative Members can participate in the FSMA 204 workgroup to continue developing the next iterations of the Guideline. Contact Lucy Angarita at: langarita@gs1us.org or Manali Pradhan at: mpradhan@gs1us.org

- Case Study: Culinary Collaborations LLC
- GS1 US Application of GS1 System of Standards to Support FSMA 204 Guideline
- FSMA 204 FAQs

#### **FDA Resources**

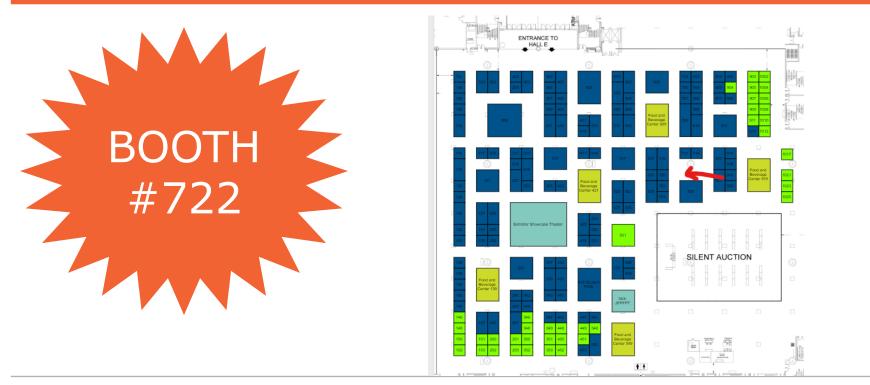
- FSMA Final Rule on Requirements for Additional Traceability Records for Certain Foods on FDA.gov
- FDA Food Safety Modernization Act (FSMA) Food Traceability Rule Supply Chain Example Produce

#### Additional Traceability Resources

- Register now for the GS1 US Supply Chain Visibility Summit on April 20th
- North American Industry Implementation Guidance for Standard Case Code Labeling



## We will be in Toronto!



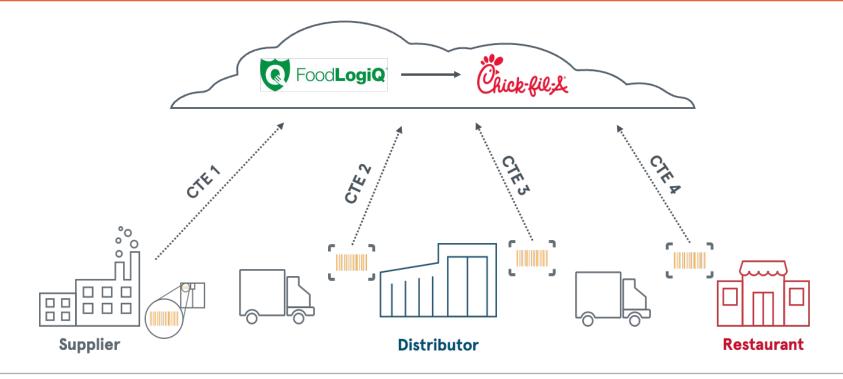


#### Speaker Journey's

Speakers: Ryan Peters, Chick-Fil-A Brando Tijerina, Taco Johns Stacie Sanders, ARCOP Greg Cassens, Dot Foods



### Chick Fil-A





### Chick Fil-A

- Key Takeaways:
  - Start NOW!
  - Think <u>Processes</u> & <u>Systems</u>
  - Leverage your network
  - Partner with your supply chain
  - Standardize!



## Taco John's

#### **Taco John's Journey & Timeline**

- 2020 Identified FSQA needs, including needs to meet FSMA 204 requirements.
  - Software Solution (Reaction time, proper data collection, automation).
- 2022 Implementation of the software solution.
  - Established standards and requirements for suppliers and distributors.
  - Developed a plan and vision for traceability.
  - Communicated standards and expectations.
  - Onboarding of suppliers following the FTL List.
- 2023 / 2024 Complete onboarding and test the system.



## Taco John's

#### **GS1 Standards at Taco John's**

#### **Taco John's Proprietary Products must have:**

- Global Trade Item Numbers (GTIN)
- Case Labels with GS1-128 Barcode

#### Global Location Numbers (GLN)

Location of our partners & our restaurants.

#### Key Takeaways and Learnings

- Executive buying & support
- Cross-functional support
- Clear partner communication
- Understand Resources
- Contracts
- Technology



## ARCOP (Arby's Supply Chain Cooperative)

#### ARCOP/Arby's Traceability Journey

- Began journey in Jan 2018 with goal of compliance by end of 2019
- Require GS1-128 barcode labels on all products in supply chain

#### Considerations/Challenges

- Determine current traceability state
- Processes/requirements must be created labeling requirements, barcode guidelines, category matrix, scanning requirements
- Implementation strategy rollout in prioritized phases
- Technology varies by supplier and distributor



## ARCOP (Arby's Supply Chain Cooperative)

#### Key Takeaways/Learnings

- Must have executive level support
- Implement requirements into contracts and processes
- Educate and align internal players
- Engage with the right individuals at both the supplier and distributor level
- Must work together with trading partners
- INDUSTRY COLLABORATION!!!!



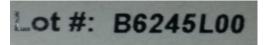


## Dot Foods (Case level traceability challenges for distributors)

## Identifying the lot code

- A. Julian date?
- B. Expiration date?
- C. Born date?

## D. Unique lot code? USE BY DATE: 09/05/2018





## Manually entering lot codes

- 1-1-17?
- 1-11-17?
- 1-2-17?
- 2-1-17?

-	-	-	· · · · ·	
DelDate 🔻	ItemNu 🕂	ShipQ 🔻	LotCode 🎩	City
1/12/2017	630580	12	Jul 10 2017	OCOEE
2/6/2017	630580	12	7102017	OCOEE
2/1/2017	630580	36	Jul102017e	SELMA
1/30/2017	630580	48	July1017	WILSON
2/6/2017	630580	18	7102017	WILSON

## One item – Multiple lot codes

- Per Load?
- Per Pallet?





## Dot Foods (Leveraging Technology & ASNs)

## SSCC Pallet Label

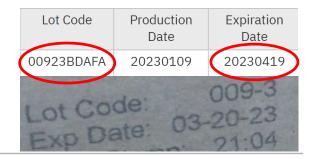


## ASN Data Sent Electronically to Dot

BACK	BACK Check In			
LOT	1			
	123104ST MFGR 08/08/2020	EDIT		
NEXT				
	20104SS MFGR 04/10/2020 EXP 02/04/2022	EDIT		
	Create Lot			

But... what if:

- ASN is not sent ontime
- No SSCC Tag or put on the wrong pallet
- ASN does not match the case





## Speaker Discussion

*Moderator: Norma Crockett, G<u>S1 US</u>* 

Speakers:

*Ryan Peters, Chick-Fil-A Brando Tijerina, Taco Johns Stacie Sanders, ARCOP Greg Cassens, Dot Foods* 



## **Discussion Topics**

- How do GS1 standards help with industry alignment? Why is alignment so important?
- What is the difference between implementing a traceability program and meeting the FSMA 204 regulation?
- What discussions are you having with your trading partners to comply with FSMA 204?



## Get Started Checklist

Speaker: Norma Crockett GS1 US Director, Community Engagement Foodservice Track



## **Action Steps**

- Understand the implications of the FSMA 204 proposed rule
- Take an inventory of your products that might appear on the final Food Traceability List (FTL)
- Migrate from internal identifiers to globally unique products (GTINs) and locations (GLNs)
- Assess how your existing traceability data capture and sharing solution may need to evolve
- Talk with your trading partners on data sharing expectations.

Consider both finished products and ingredients

Consider both saleable units and cases

Consider how your traceability program will scale as needed

#### Start the conversation early



## See you at IAFP! Booth #722



Norma Crockett Director, Community Engagement Foodservice





Lucy Angarita Director, Community Engagement Retail Grocery



BOOTH #722



## **Contact Information**

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June 22, 2023	Using Science and Technology to Reduce Food Waste and Ensure Food Safety
June 27, 2023	Don't be Shellfish! Use Next Generation Sequencing to Improve Seafood Safety and Quality
September 22, 2023	Modeling Salmonella Growth and Inactivation for Small and Very Small Processors with Limited Data
October 24, 2023	Managing Meat Shelf Life and Spoilage to Ensure Food Security

https://www.foodprotection.org/events-meetings/webinars/



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