Explore the Benefits of GS1 Standards in the Fresh Foods Supply Chain

Choose a trading partner

Primary Producer → Processor/Manufacturer → Distributor/Wholesaler → Distribution Center (Private or 3PL) → Point of Consumption (Restaurant or Retail Store Outlet)
Primary Producer GS1 Standards Application

GLN
Location Identification
GLN Global Location Number
0614141004577

GTIN
Case Level Identification
GTIN® Global Trade Item Number®
and Extended Data
Batch/Lot Number

GDSN

Barcodes

Identify

Capture

Share

Benefits

Enter Your Product Data

Dimensions
Weights
Nutritional
Allergens

Send
Primary Producer  GS1 Standards Application

Identify
• GTINS are created for each product and dispatch unit
• Batch/Lot or Serial Numbers are captured for each unit of product harvested
• Brand Owner GLNs are assigned for each location
Primary Producer  GS1 Standards Application

Capture

- GTINs and production data (Batch/Lot or Serial Number, Product Dates, etc.) are printed on products/packaging (barcode and human readable)
- Serial Shipping Container Codes (SSCCs) are created for each dispatch/logistics unit and encoded in GS1-128 barcodes
Global Data Synchronization Network™ (GDSN®)/Product data is defined, created, and published

- Brand Owner GLNs are shared as source of product
- Transactional data is shared (EDI-Purchase Order (PO), Advance Ship Notice (ASN), Bill of Lading (BOL), Invoice)
Benefits

- Provide product information to consumer: nutritionals, allergens, sustainability info, etc.
- Enable better product and location identification for track and trace processes
- Enable use of Rapid Recall Express®
- Enhance visibility to support safe handling processes
- Enhance product visibility
Processor/Manufacturer GS1 Standards Application

Company & Location Identification
GLN Global Location Number
0614141000005

Case Level Identification
GTIN® Global Trade Item Number® and Extended Data
Date & Batch/Lot/Serial Number (if applicable)

Enter Your Product Data
GTIN
Dimensions, Weights
Nutritional, Allergens

Barcodes

Identify

Capture

Share

Benefits

GS1 US
GTIN® are created for each product and dispatch unit
Brand Owner GLNs are created as location identification
Batch/Lot or Serial Numbers are captured for each unit of product packed.
Capture

- GTINs and production data (Batch/Lot or Serial Number, Product Dates, etc.) are printed on products (barcode and human readable)
- Serial Shipping Container Codes (SSCCs) are created for each dispatch/logistics unit and encoded in GS1-128 barcodes
Share

- Global Data Synchronization Network™ (GDSN®)/Product data is defined, created, and published
- Brand Owner GLNs are shared as source of product
- Transactional data is shared (EDI-Purchase Order (PO), Advanced Ship Notice (ASN), Bill of Lading (BOL), Invoice)
Benefits

- Use of GTINs, SSCCs, barcodes, and electronic data help:
  - Reduce costs and time spent on manual processes
  - Improve order accuracy
  - Reduce delivery errors
  - Increase accuracy for electronic commerce/website information
  - Improve cash flow

- Unique product identification in barcodes (GTIN & Batch/Lot or Serial Numbers) and GLN identification for locations enhance product visibility to support safe handling processes (dwell time, temperature consistency, source location, etc.)
Distributor/Wholesaler GS1 Standards Application

Location Identification
GLN Global Location Number
0003456700005

Pallet Level Identification
SSCC Serial Shipping Container Code

Enter Your Product Data
GTIN
Dimensions Weights
Nutritional Allergens

Identify
Capture
Share
Benefits
Identify

- GTINs, SSCCs, GLNs, and barcodes are used for:
  - Receipt verification
  - Product put away
  - Product pick
  - Shipment creation
  - Physical Event data capture

- GTINs, Batch/Lot or Serial Numbers, and Product Dates are used for:
  - Inventory rotation
  - Quality control processes/recall preparedness
  - Order management
• GTINs, SSCCs, GLNs, and barcodes are used for:
  - Receipt verification
  - Product put away
  - Product pick
  - Shipment creation
  - Physical Event data capture

• GTINs, Batch/Lot or Serial Numbers, and Product Dates are used for:
  - Inventory rotation
  - Quality control processes/recall preparedness
  - Order management
GTINs, SSCCs, and GLNS are used in electronic data exchange of:

- EDI-Purchase Order (PO), Advance Ship Notice (ASN), Bill of Lading (BOL), and Invoices to customers
- WMS updates (inventory and delivery data)

Global Data Synchronization Network™ (GDSN®)/Product data is consumed and (can be) published with trading partners

GLNs assigned by facility can identify source and recipients of product
Benefits

- GTINs, SSCCs, GLNs, barcodes, and electronic data:
  - Optimize receiving productivity
  - Increase receiving accuracy
  - Improve inventory management
  - Expedite put away
  - Reduce mis-picks and shorts
- GLNs identify warehouse locations and product source for traceability
- GDSN® data (synchronized product data) aligns:
  - Product dimensions
  - Product handling procedures
- Physical Event data capture enables:
  - Inventory availability
  - Managing date-coded product
- Better data through GS1 Standards can enable labor planning and efficiencies
Distribution Center GS1 Standards Application

- **Location Identification**
  - GLN Global Location Number
  - 0003456700005

- **Pallet Level Identification**
  - SSCC Serial Shipping Container Code

- **GDSN**

- **Enter Your Product Data**
  - GTIN
  - Dimensions
  - Weights
  - Nutritional
  - Allergens

- **Identify**

- **Capture**

- **Share**

- **Benefits**

- **Barcodes**

- **WHOLESALER**

- **DISTRIBUTOR**

- **GLN**

- **GTIN**

- **GDSN**
Distribution Center GS1 Standards Application

Identify

- GTINs, SSCCs, GLNs, and barcodes are used for:
  - Receipt verification
  - Product put away
  - Product pick and/or Voicepick
  - Shipment creation
  - Physical Event data capture

- GTINs and Batch/Lot or Serial Numbers and Product Dates are used for:
  - Inventory rotation
  - Quality control processes/recall preparedness
  - Order management

Identify

Capture

Share

Benefits
• GTINs, SSCCs, GLNs, and barcodes are used for:
  - Receipt verification
  - Product put away
  - Product pick and/or Voicepick
  - Shipment creation
  - Physical Event data capture

• GTINs and Batch/Lot or Serial Numbers and Product Dates are used for:
  - Inventory rotation
  - Quality control processes/recall preparedness
  - Order management
GTINs, SSCCs, and GLNS are used in electronic data exchange of:
- (EDI) Advance Ship Notices (ASNs) to customers
- WMS updates (inventory and delivery data)

GDSN® data is consumed

GLNs assigned by facility can identify source and recipients of product
Benefits

- GTINs, SSCCs, GLNs, barcodes, and electronic data:
  - Optimize receiving productivity
  - Increase receiving accuracy
  - Improve inventory management
  - Expedite put away
  - Reduce mis-picks and shorts
- GLNs identify warehouse locations and product source for traceability
- GDSN® data (synchronized product data) aligns:
  - Product dimensions
  - Product handling procedures
- Physical Event data capture enables:
  - Inventory availability
  - Managing date-coded product
- Better data through GS1 Standards can enable labor planning and efficiencies
Identify

Share

Capture

Benefits

Point of Consumption

GS1 Standards Application

Location Identification

GLN Global Location Number

0000456700004

Case Level Identification

GTIN® Global Trade Item Number® and Extended Data

Batch/Lot Number

Product Data From GDSN

Dimensions

Weights

Nutritional

Allergens

Barcodes

GDSN

EDI

Distributor

Restaurant

Grocery

Identify

Capture

Share

Benefits
Identify

- GTINs, SSCCs, GLNs, and barcodes are used for:
  - Receipt verification
  - Product put away
  - Inventory replenishment—backroom, on shelf
  - Efficient POS process (UPC-A/GS1 DataBar®)
  - Physical Event data capture

- GTINs and Batch/Lot or Serial Numbers and Product Dates are used for:
  - Inventory rotation
  - Quality control processes
  - Sales recording
  - Recall preparedness
GTINs, SSCCs, GLNs, and barcodes are used for:
- Receipt verification
- Product put away
- Inventory replenishment—backroom, on shelf
- Efficient POS process (UPC-A/GS1 DataBar®)
- Physical Event data capture

GTINs and Batch/Lot or Serial Numbers and Product Dates are used for:
- Inventory rotation
- Quality control processes
- Sales recording
- Recall preparedness
Point of Consumption GS1 Standards Application

- **Share**
  - GDSN® data is consumed
  - GLNs assigned by facility are verified as source and recipient of product
  - GTINs, SSCCs, and GLNS are used in electronic data processes:
    - EDI-Purchase Order (PO), Advance Ship Notice (ASN), Bill of Lading (BOL), Invoices
    - On-shelf availability
    - ERP systems updates
    - Trigger for auto alerts of recalled products
Benefits

- GTINs, SSCCs, GLNs, barcodes, and electronic data:
  - Optimize receiving productivity
  - Increase receiving accuracy
  - Improve inventory management
  - Expedite put away
  - Reduce shrink

- GTINs, GLNs, and barcodes enable:
  - Quick and accurate POS
  - Loyalty and membership cards linked to consumer purchases

- GLNs identify store locations of receipt and product source for traceability

- GDSN® data (synchronized product data) provides:
  - Planogram for shelf fit
  - Creation of shelf tags
  - Increased accuracy for electronic commerce/website information
  - Nutrient and allergen information for consumers

- Physical Event data capture enables:
  - Inventory availability
  - Managing date-coded product
  - Country of Origin

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Identification

- GLN Global Location Number
- GTIN® Global Trade Item Number® and Extended Data
- Batch/Lot Number

Capture

- Product Data from GDSN
  - Dimensions
  - Weights
  - Nutritional
  - Allergens

Share

- Inventory availability
- Managing date-coded product
- Country of Origin

Benefits