



The Global Language of Business

Fresh Foods Management Solution

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





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

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

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), 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



Identify

- GTINs 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
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- Transactional data is shared (EDI-Purchase Order (PO), Advance Ship Notice (ASN), Bill of Lading (BOL), Invoice)

Benefits

- The 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



Identify & Capture

- 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

Share

- 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)
- GDSN®/product data is consumed & (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



Identify & Capture

- 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

Share

- 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



Point of Consumption GS1 Standards Application



Identify & Capture

- 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

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
 - 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

About GS1 US

GS1 US, a member of GS1® global, is a not-for-profit information standards organization that facilitates industry collaboration to help improve supply chain visibility and efficiency through the use of GS1 Standards, the most widely used supply chain standards system in the world. Nearly 300,000 businesses in 25 industries rely on GS1 US for trading partner collaboration that optimizes their supply chains, drives cost performance and revenue growth, while also

enabling regulatory compliance. They achieve these benefits through solutions based on GS1 global unique numbering and identification systems, barcodes, Electronic Product Code-based RFID, data synchronization, and electronic information exchange. GS1 US also manages the United Nations Standard Products and Services Code® (UNSPSC®). For more information, visit www.gs1us.org.

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