

# 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



**Identify**

**Capture**

**Share**

**Benefits**

# 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



Identify



Capture



Share



Benefits

# 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



Identify



Capture



Share



Benefits

# Primary Producer GS1 Standards Application



## 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)



Identify



Capture



Share



Benefits

# Primary Producer GS1 Standards Application



## 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



Identify



Capture



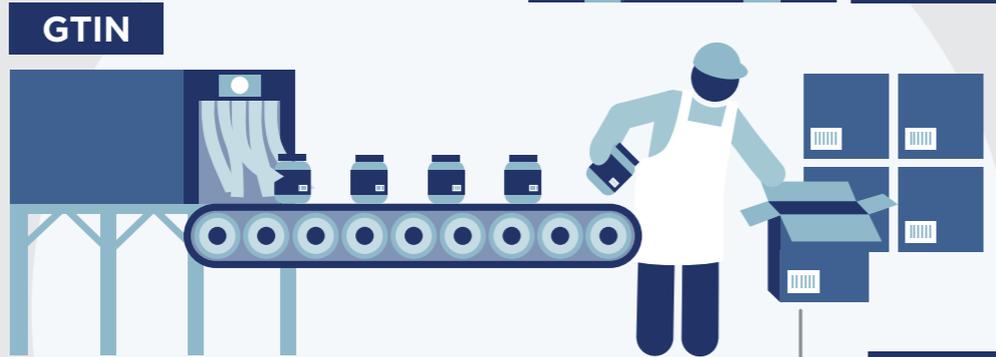
Share



Benefits

# Processor/Manufacturer GS1 Standards Application

**Company & Location Identification**  
**GLN** Global Location Number  
0614141000005



**EDI**

Enter Your Product Data

GTIN

Dimensions Weights

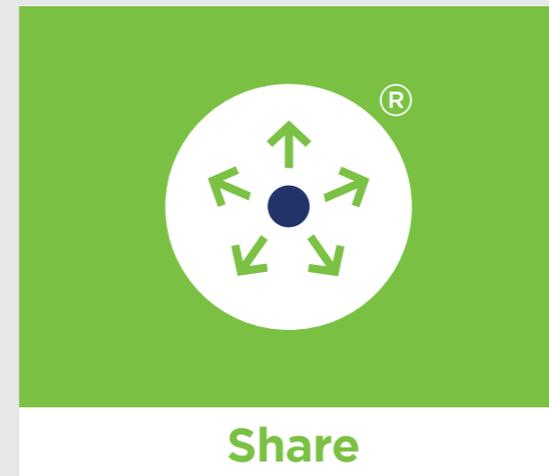
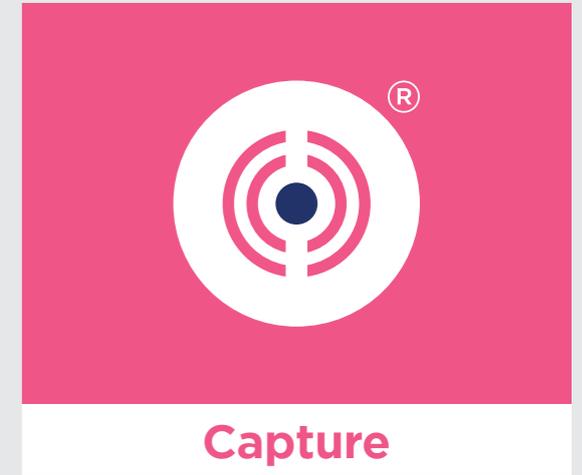
Nutritional Allergens

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



**Barcodes**

**GDSN**



# 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



Identify



Capture



Share



Benefits

# Processor/Manufacturer GS1 Standards Application



## 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



Identify



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Benefits

# Processor/Manufacturer GS1 Standards Application



## 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)



Identify



Capture



Share



Benefits

# Processor/Manufacturer GS1 Standards Application



## 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.)



Identify



Capture

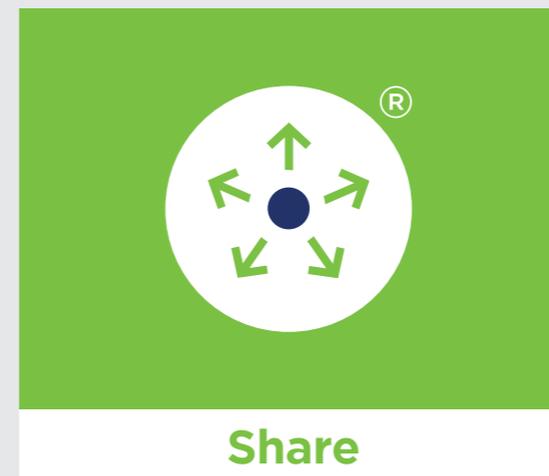
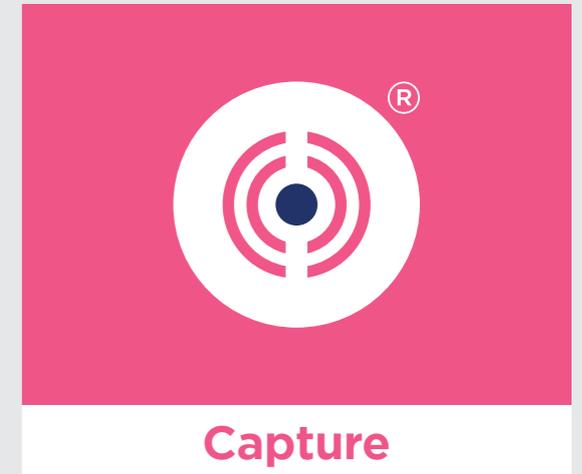


Share

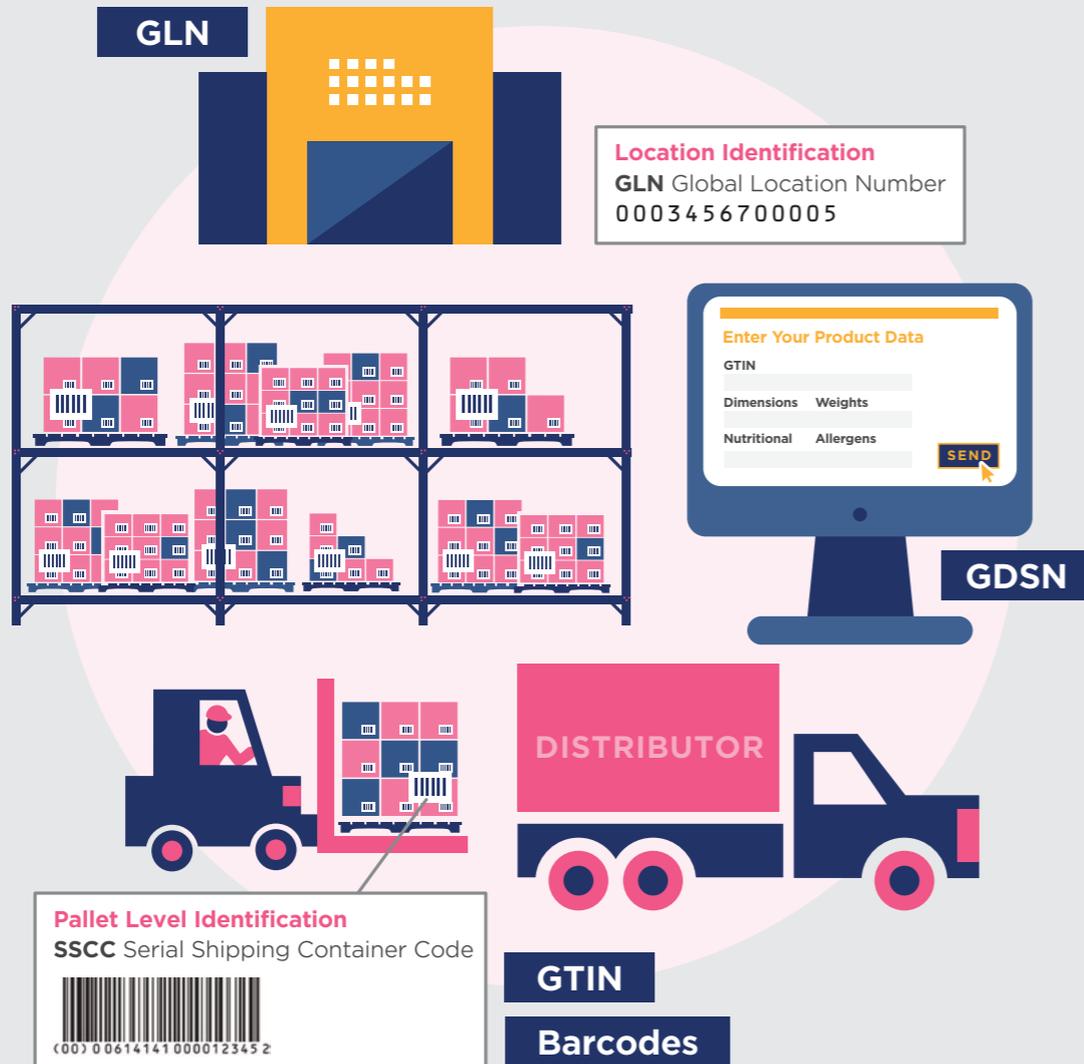


Benefits

# Distributor/Wholesaler GS1 Standards Application



# Distributor/Wholesaler GS1 Standards Application



## 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



Identify



Capture

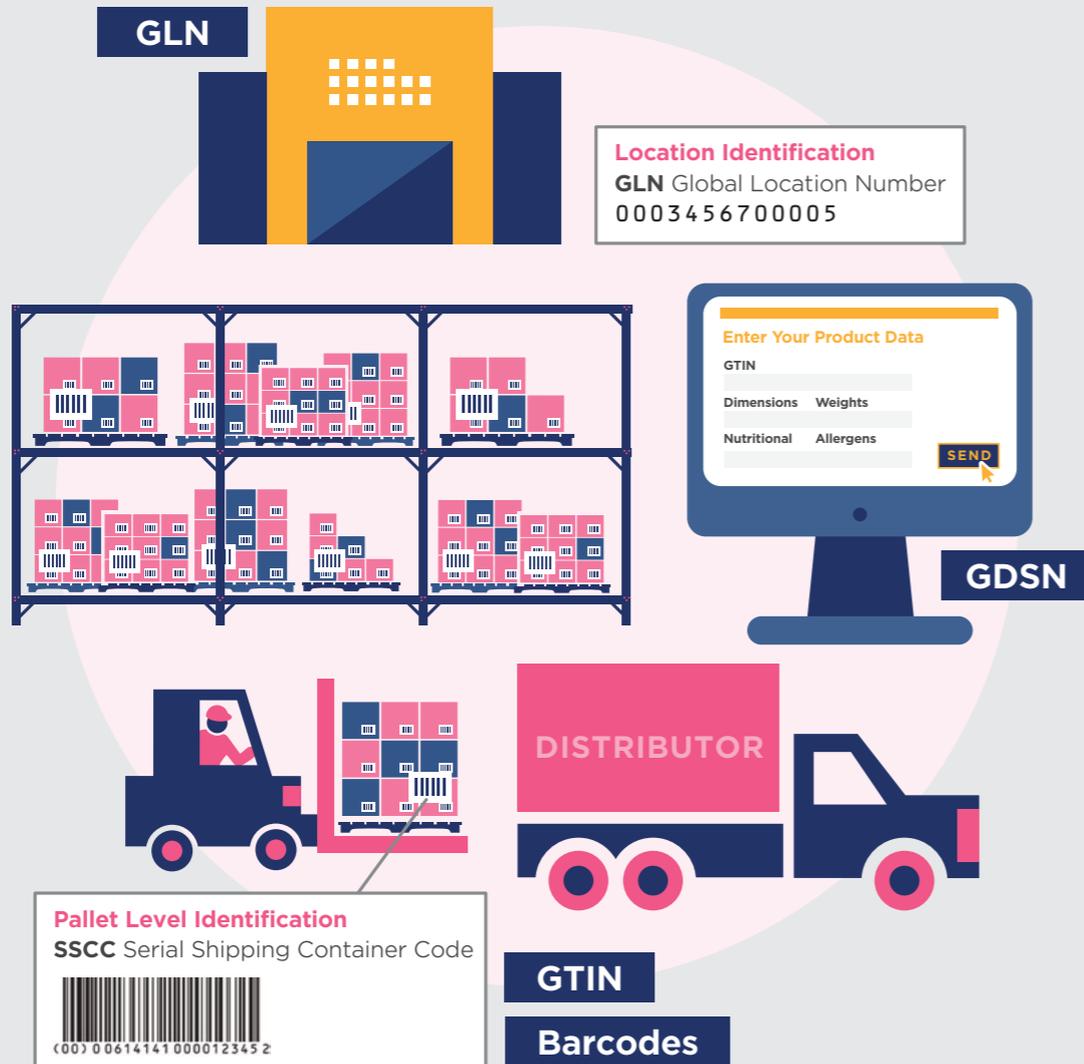


Share



Benefits

# Distributor/Wholesaler GS1 Standards Application



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  - Order management



Identify



Capture

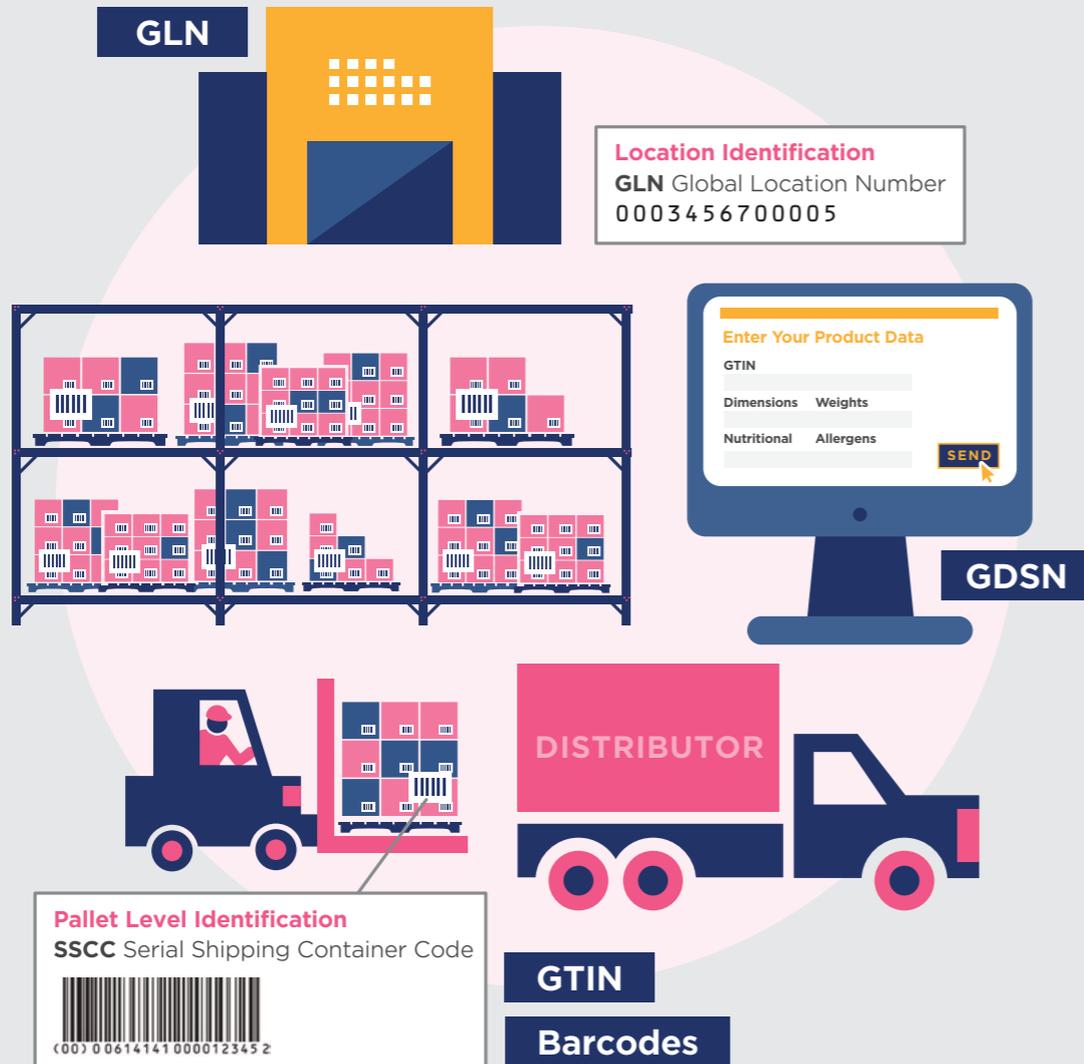


Share



Benefits

# Distributor/Wholesaler GS1 Standards Application



## 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)
- 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



Identify



Capture

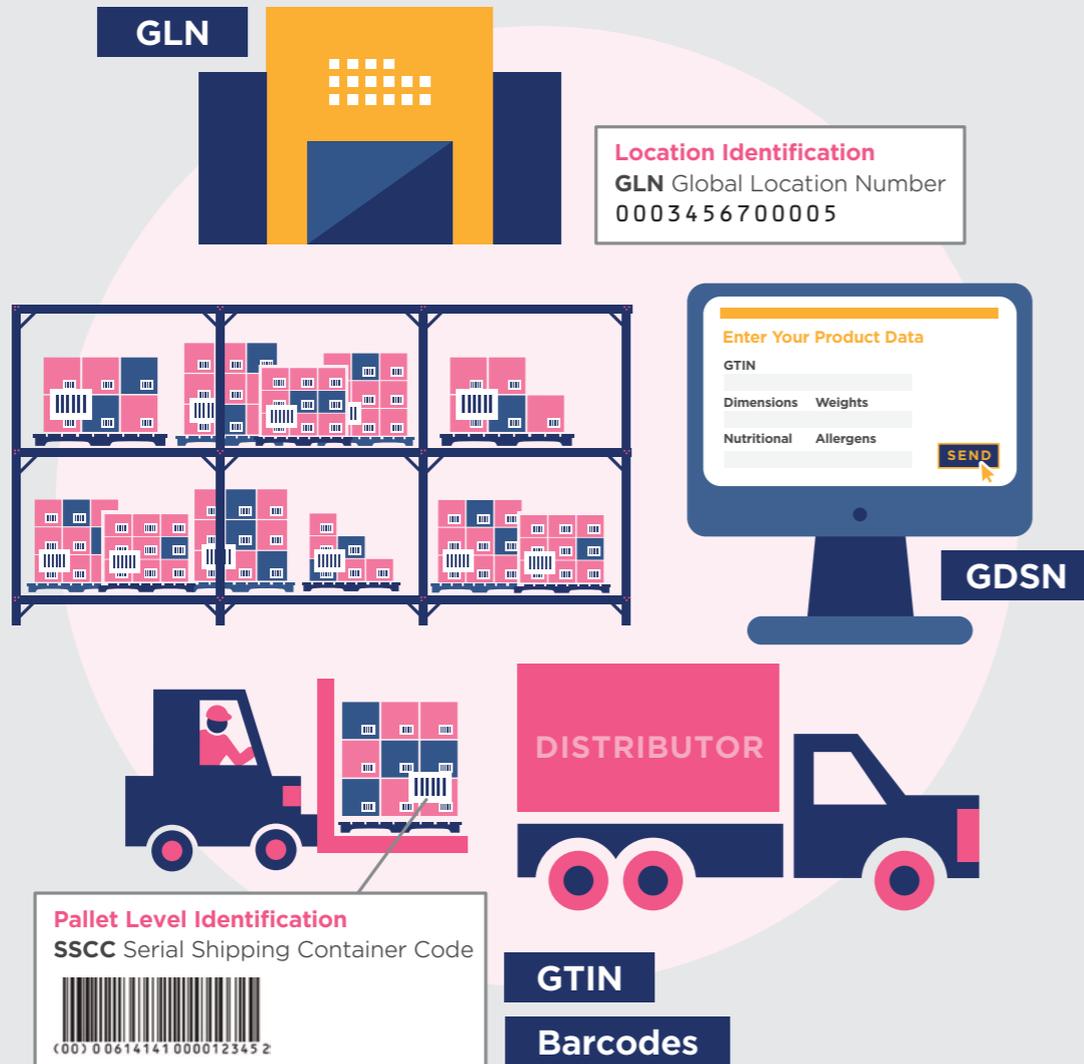


Share



Benefits

# Distributor/Wholesaler GS1 Standards Application



## 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
- 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
- GLNs identify warehouse locations and product source for traceability



Identify



Capture



Share



Benefits

# Distribution Center GS1 Standards Application

**GLN**



**Location Identification**  
GLN Global Location Number  
000345670005

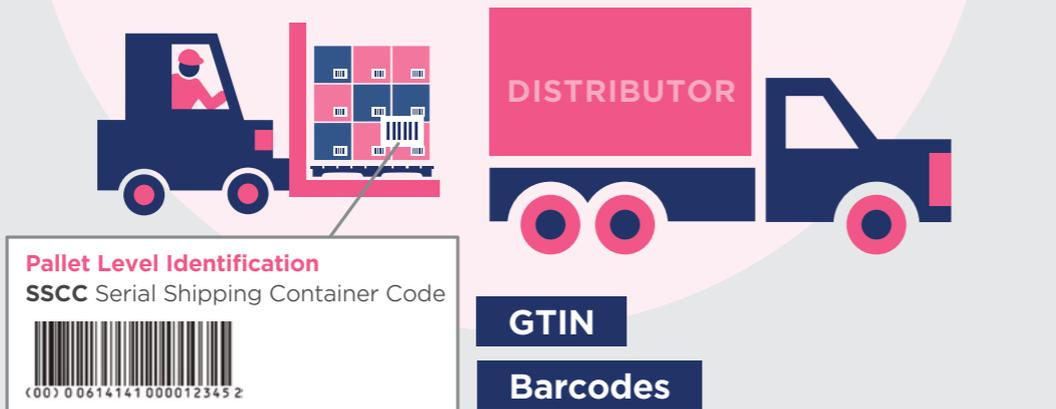


**Enter Your Product Data**

GTIN  
Dimensions Weights  
Nutritional Allergens

**SEND**

**GDSN**



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

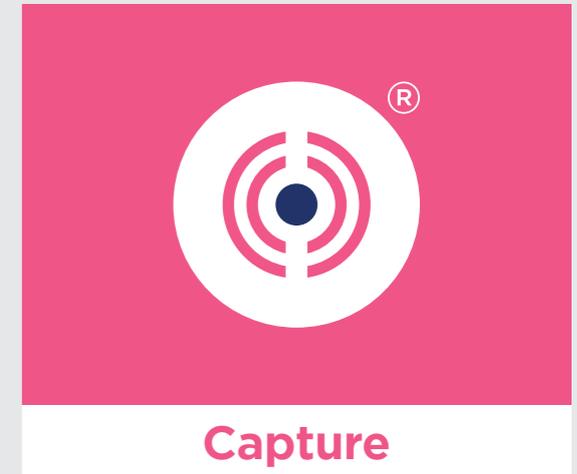


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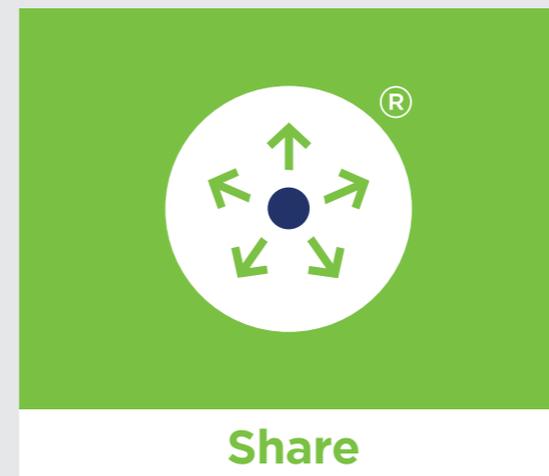
**GTIN**  
**Barcodes**



**Identify**



**Capture**



**Share**



**Benefits**

# 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

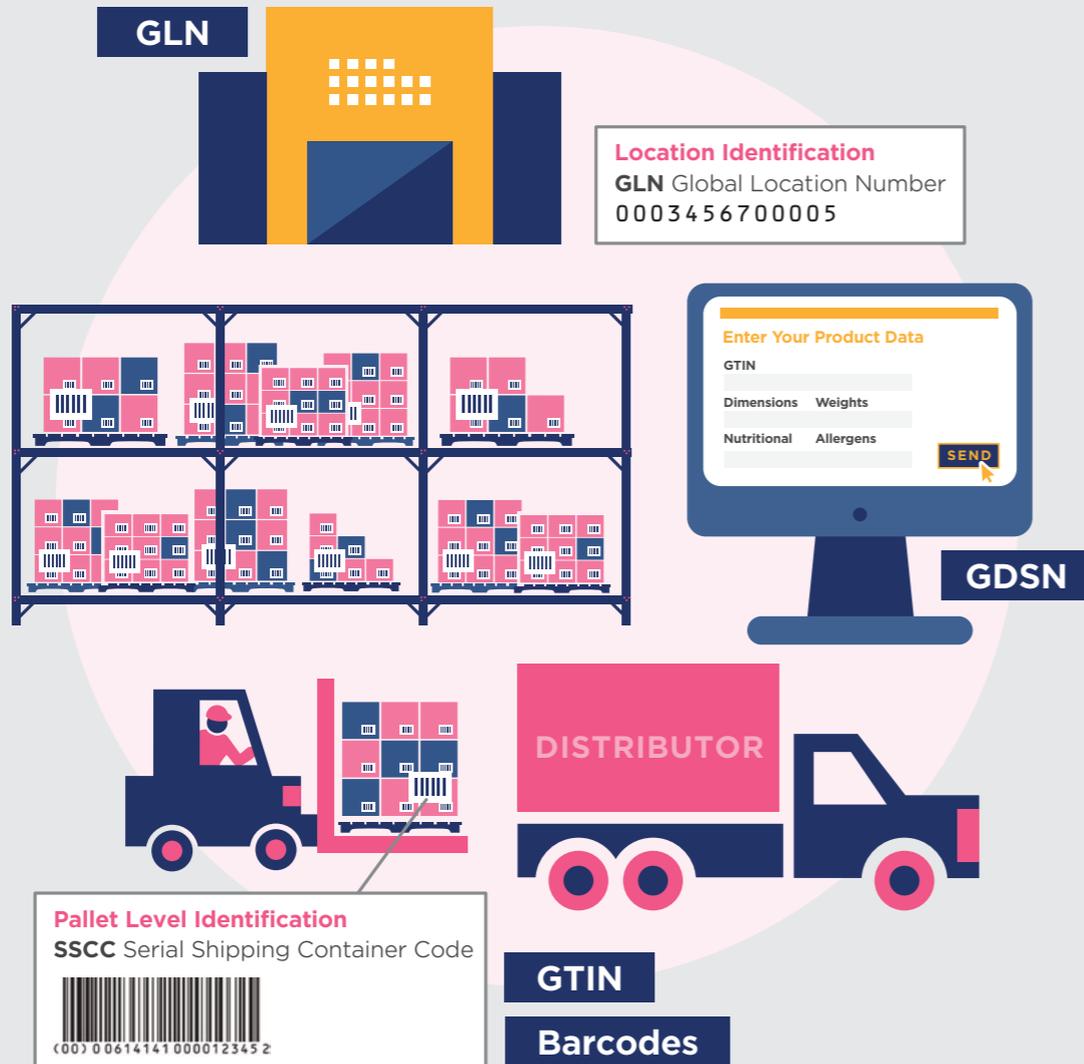


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Benefits

# Distribution Center GS1 Standards Application



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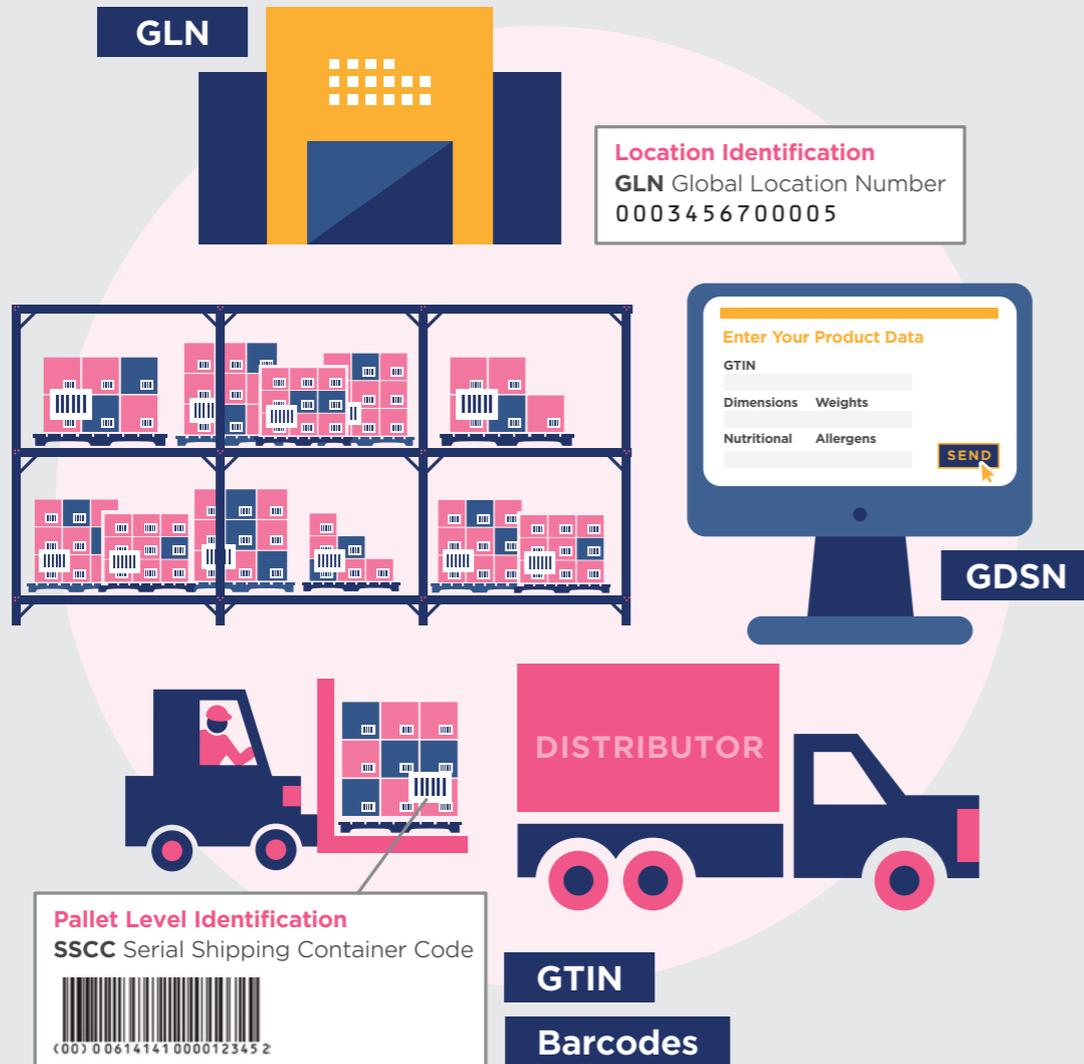


Share



Benefits

# Distribution Center GS1 Standards Application



## 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



Identify



Capture



Share



Benefits

# Distribution Center GS1 Standards Application



## Benefits

- GTINs, SSCCs, GLNs, barcodes, and electronic data:
  - Optimize receiving productivity
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  - Improve inventory management
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  - 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
- GLNs identify warehouse locations and product source for traceability



Identify



Capture

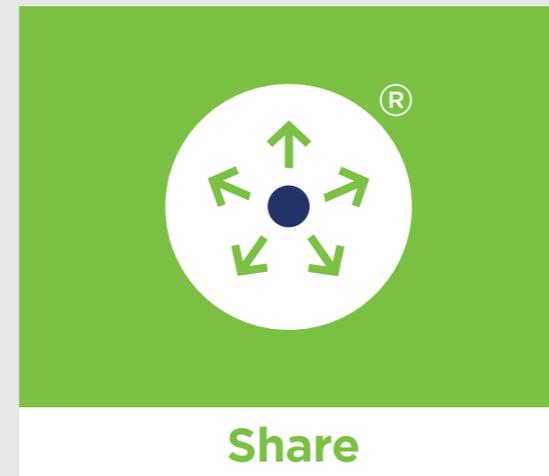
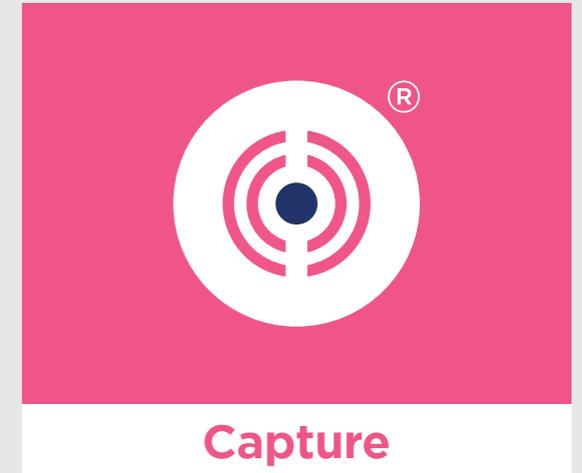


Share



Benefits

# Point of Consumption GS1 Standards Application



# Point of Consumption GS1 Standards Application



## 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



Identify



Capture



Share



Benefits

# Point of Consumption GS1 Standards Application



## 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



Identify



Capture



Share



Benefits

# 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

Identify

Capture

Share

Benefits

# Point of Consumption GS1 Standards Application



## 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



Identify



Capture



Share



Benefits