

## GDSN Terms

- **GDSN** – “Global Data Synchronization Network”
- **Data Pools** – entry/exit points into the network
  - E.g. 1WorldSync, Syndigo, Attribytes
- **GLN** – “Global Location Number”
  - Identifies the company location
- **GTIN** – “Global Trade Item Number”
  - Always 14 digits (created from SCC-14’s and UPC’s with 2 zeroes in front)
- **Target Market** – country to which a GTINs attributes pertain (e.g. 840=US) – the key for an item in GDSN is the GLN + GTIN + Target Market
- **Global Registry** – stores (“registers”) GLNs, a subset of product data (e.g. GTIN, short description, classification, etc.), and subscriptions that enable participants to send/find/receive data in GDSN
- **GPC code** – “Global Product Classification” code
  - Required code that classifies/categorizes the product
- **Hierarchy** – the packaging configuration for the product (e.g. Case contains Inner Packs which contain the Consumer Unit (eaches)). Each level is assigned a 14-digit GTIN.

## GDSN Reference Links

### GS1 GTIN Management

<http://www.gs1.org/1/gtinrules/>

### GS1 Package Measurement

[https://www.gs1.org/docs/gdsn/3.1/GS1\\_Package\\_Measurement\\_Rules.pdf](https://www.gs1.org/docs/gdsn/3.1/GS1_Package_Measurement_Rules.pdf)

### GDSN Trade Item Implementation Guide

[https://www.gs1.org/docs/gdsn/tiig/3\\_1/GDSN\\_Trade\\_Item\\_Implementation\\_Guide.pdf](https://www.gs1.org/docs/gdsn/tiig/3_1/GDSN_Trade_Item_Implementation_Guide.pdf)

### GS1 Product Image Specification Standard

[https://www.gs1.org/sites/default/files/docs/gdsn/Product\\_Image\\_Specification.pdf](https://www.gs1.org/sites/default/files/docs/gdsn/Product_Image_Specification.pdf)

### GS1US Industry Initiatives

<https://www.gs1us.org/industries/overview>

## GDSN Tool Links

### Valid GPC Codes

<https://www.gs1.org/services/gpc-browser>

### GTIN Check Digit Calculator

<https://www.gs1.org/services/check-digit-calculator>

### Who Owns This GTIN/GLN? - GEPIR

<https://www.gs1us.org/tools/gs1-company-database-gepir>

## Conversion Factors

### Imperial / Metric

1 inch = 2.54 cm  
1 foot = 30.48 cm  
1 pound = 0.453592 kg

### Volume

1 cubic inch = 0.000578704 cubic feet

### Temperature

C → F:  $(C \times 9/5) + 32$   
F → C:  $(F - 32) \times 5/9$

## GDSN UOM Codes

### UOM / Meaning

CEL	Celsius
FTQ	Cubic Feet
DAY	Day
DZN	Dozen
FAH	Fahrenheit
OZA	Fluid Ounce
FOT	Foot
GLL	Gallon
GRM	Gram

### UOM / Meaning

INH	Inch
E14	Kilo-Calorie
KGM	Kilogram
LTR	Litre
MC	Microgram
MGM	Milligram
MLT	Millilitre
ONZ	Ounce
LBR	Pound

# Data Sync Reference

Provided by

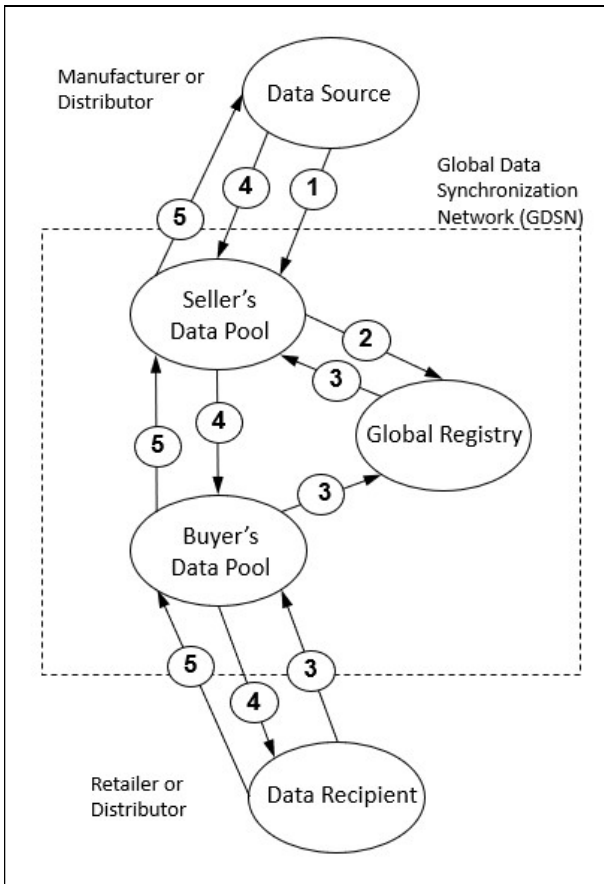


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[www.aligntrac.com](http://www.aligntrac.com)

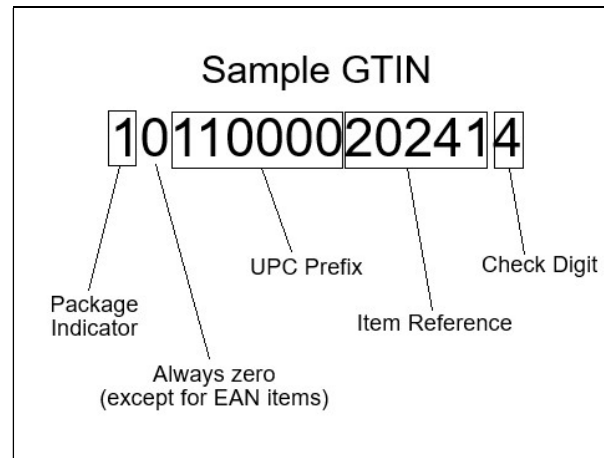
888-458-4988

## GDSN Flow



- ① Load Company Data
- ② Register Company Data
- ③ Subscribe to Company Data (CIS)
- ④ Publish Company Data (CIN)
- ⑤ Confirm Receipt of Company Data (CIC)

## GTIN Allocation



### Solid Packs (one UPC in packaging)

10110000202414/CA  
 ← 20110000202411/PK (qty=6)  
 ← 00110000202417/EA (qty=2)

### Assortment Packs (multiple UPCs in packaging)

00110000203521/DS  
 ← 00110000202417/EA (qty=4)  
 ← 00110000202428/EA (qty=4)  
 ← 00110000202439/EA (qty=4)

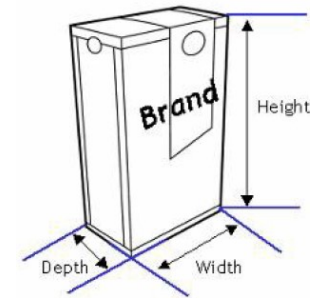
### When a New GTIN is Required

- Any new product (GTINs cannot be reused)
- Pack quantity change → new case GTIN
- Packaging dimension/gross weight change >20%
- Net Content declaration change
- Primary brand change
- Add or remove certification mark
- Change in legally declared information on packaging (e.g. formulation)
- Add or remove price on package

## Package Measurement

### Eaches (Consumer Units)

- Visualize how consumer typically sees in the store (e.g. on shelf, on peg, etc.) – called the “default front”
- **Height** = bottom to top
- **Width** = left to right
- **Depth (Length)** = front to back



### Cases and Inner Packs

- Visualize pack sitting on desk – usually opens on top and bottom is called the “natural base”
- **Height** = top to bottom
- **Width** = shorter dimension of Width and Depth (Length)
- **Depth (Length)** = longer dimension of Width and Depth

