

# Dot Foods GDSN Implementation Guide





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## Overview

This document is intended for suppliers who will be sending product data to Dot Foods via the Global Data Synchronization Network (GDSN). Dot Foods requires all product data to be published via GDSN and requires suppliers to be registered with a GDSN Certified Data Pool. The guide below provides instructions on how to setup a GDSN connection with Dot Foods so we can receive product data. Please reach out to our GDSN team at [masterdata@dotfoods.com](mailto:masterdata@dotfoods.com) with any questions. They will connect you with your Master Data Analyst (MDA) to assist you throughout the process.

## Dot Foods GLN Information

Dot Foods' GLN – 0684476000001

## Dot Foods Data Synchronization Environment

GDSN Data Pool – 1WorldSync

For suppliers that have an existing 1WorldSync relationship, please utilize the Dot Foods Playlist. Using this playlist allows suppliers to see which attributes and values are requested by Dot Foods. 1WorldSync suppliers can interact with a playlist via the Enhanced view, FUSE Spreadsheet (for mass updates), or XML.

## Data Pools:

Data pools are where you can publish your items to Dot. If you do not yet have a data pool picked out, please use the link below to find a data pool. Dot utilizes 1WorldSync as its data pool.

[GDSN Certified Data Pools](#)

## Catalog Item Confirmation (CIC)

Dot Foods makes use of the CIC messages as follows:

- RECEIVED – Item has been received and passed initial validations.
- REVIEW – Supplier needs to review data provided. The confirmation message will include the error code and message from Dot Foods.  
**\*Review messages may be generated after the initial Received message if later validations detect errors.**
- SYNCHRONIZED – Item is synchronized with Dot Foods' internal systems.

## How to Get Started

1. Complete the Supplier GDSN Registration Form by clicking → [Dot Foods GLN Registration Form](#). Once the form is complete, reach out to your master data analyst.
2. Once your MDA confirms the setup is complete in Dot's system, please work with your data pool provider to publish all available items via GDSN. Inform your MDA once that is completed.
3. Your MDA will review the items published and provide an audit report which will show any non-compliant items or incomplete publications.
4. All necessary changes and corrections will need to be updated in your data pool and re-published via GDSN as initial load. \*Notify your MDA if a GTIN change has been made.

## Core Data Attributes

For a full list of attributes, please refer to the [GS1 Foodservice GDSN Attribute Guide](#).

[GS1 GDSN Attribute Guide](#)

| Attribute   | 1WorldSync Name   | XML Name  |
|---|---|---|
| Alternate Item Number -<br>Manufacturer Product Code                | Alternate Item Identification Agency<br>Alternate Item Identification ID  | alternatItemIdentification/agency<br>alternatItemIdentification/id  |
| Brand   | Brand Name  | brandName   |
| Country of Origin   | Country Of Origin   | tradelItemCountryOfOrigin   |
| Data Carrier Type   | Data Carrier Type Code  | dataCarrierTypeCode   |
| Dimensions  | Height, Height UOM<br>Width, Width UOM<br>Depth, Depth UOM  | height, height/uom<br>width, width/uom<br>depth, depth/uom  |
| Functional Name   | Functional Name   | functionalName  |
| Global Product Classification<br>Code                               | Global Item Classification Code (GPC Code)  | globalClassificationCategory/code   |
| Gross Weight  | Gross Weight, Gross Weight UOM  | grossWeight, grossWeight/uom  |
| GS1 Trade Item Key Code   | GS1 Trade Item ID Key Code  | gs1TradelItemIdentificationKeyCode  |
| GS1 Trade Item Key Value  | GS1 Trade Item ID Key Value   | gs1TradelItemIdentificationKey/value  |
| GTIN Code   | Item ID   | GTIN  |
| GTIN Name   | Item Name   | gtinName  |
| Manufacturer GLN  | Manufacturer GLN  | manufacturer/gln  |
| Brand Owner GLN   | Brand Owner GLN   | brandOwnerGLN   |
| Net Content   | Net Content, Net Content UOM  | netContent, netContent/uom  |
| Net Weight  | Net Weight, Net Weight UOM  | netWeight, netWeight/uom  |
| Non-Pallet TI/Hi – Required at<br>all <b>non-pallet level GTINs</b> | Number of Trade Items Per Pallet Layer/Non GTIN<br>Pallet Ti<br>Number of Complete Layers Contained in Item/Non<br>GTIN Pallet Hi                               | nonGTINPalletTi<br>nonGTINPalletHi  |
| Pallet TI/Hi- Required at the<br><b>PALLET level GTIN</b>           | Number of Items in a Complete Layer/GTIN Pallet Ti<br>Number of Complete Layers Contained in<br>Item/GTIN Pallet Hi   | Ti<br>hi  |
| Product Descriptions  | Short Description / POS Desc. 1<br>Product Description  | shortDescription<br>productDescription  |
| Product Type  | Product Type  | productType   |
| Lifespan from Production<br>Lifespan from Arrival                   | Min Product Lifespan from Production (Days)<br>Min Product Lifespan from Arrival (Days)   | minimumTradelItemLifespanFromProduction<br>minimumTradelItemLifespanFromArrival   |
| Storage Temperature   | Temperature Qualifier Code – Trade item is being<br>stored or handled<br>Maximum Temperature/UOM<br>Minimum Temperature/UOM                                     | tradelItemTemperatureInformation/temperatureQualifierCode<br>tradelItemTemperatureInformation/maximumTemperature<br>storageHandlingTempMax/uom<br>tradelItemTemperatureInformation/minimumTemperature<br>storageHandlingTempMin/uom |
| Target Market   | Target Market   | targetMarket  |
| Unit Indicators   | Base Unit Indicator<br>Consumer Unit Indicator<br>Dispatch Unit Indicator<br>Invoice Unit Indicator<br>Ordering Unit Indicator<br>Variable Weight Trade Item    | isBaseUnit<br>isConsumerUnit<br>isDispatchUnit<br>isInvoiceUnit<br>isOrderableUnit<br>isVariableWeightItem  |
| Unmarked Inners   | Inner Pack<br>Quantity of Next Level GTIN within Inner Pack<br>Individual Unit Max<br>Individual Unit Max UOM<br>Individual Unit Min<br>Individual Unit Min UOM | InnerPack<br>quantityOfNextLevelTradelItemWithinInnerPack<br>individualUnitMax<br>individualUnitMaxUOM<br>individualUnitMin<br>individualUnitMinUOM   |



## Marketing and Nutrition Attributes (M&N Data)

| Attribute                      | 1WorldSync Name   | XML Name  | Comments   |
|--------------------------------|---|---|--|
| <b>Marketing</b>               |   |   |  |
| Marketing Message/Benefits     | Marketing Message   | tradeItemMarketingMessage   | Required   |
| <b>Images</b>                  |   |   |  |
| Information Type               | Referenced File Type Code   | typeOfInformation   | *Required (at least 1 PRODUCT_IMAGE)<br>*Required (e.g. JPG, GIF, BMP, or PNG)<br>*Required if uploading image as URL<br>*Required if uploading image as URL |
| File Format                    | File Format Name  | fileFormatName  |  |
| URL                            | Uniform Resource Identifier   | uniformResourceIdentifier   |  |
| File Name                      | File Name   | fileName  |  |
| <b>Storage</b>                 |   |   |  |
| Storage                        | Consumer Storage Instructions   | consumerStorageInstructions   | Required for food items  |
| <b>Ingredients Summary</b>     |   |   |  |
| Ingredients                    | Ingredients Statement   | ingredientStatement   | Required for food items  |
| <b>Preparation</b>             |   |   |  |
| Preparation Type               | Preparation Type  | preparationType   |  |
| Preparation Instructions       | Preparation Instructions  | preparationInstructions   | Required for food items  |
| <b>Nutritional Information</b> |   |   |  |
| Serving Size, UOM              | Serving Size & Serving Size UOM   | servingSize, servingSizeUoM   | Required for food items  |
| Serving Size Description       | Serving Size Description  | servingSizeDescription  | Required for food items  |
| Servings per Container         | Number Of Servings Per Package  | numberOfServingsPerPackage  | Required for food items  |
| Nutrition Facts                | Serving Size Preparation State<br>Measurement Precision<br>Nutrient Type Code<br>Percentage of Daily Value Intake<br>Nutrient Quantity Contained<br>Nutrient Quantity Contained UOM | preparationState<br>measurementPrecision<br>nutrientTypeCode<br>percentageOfDailyValueIntake<br>quantityContained<br>quantityContainedUoM | Required for food items  |
| <b>**Allergens</b>             | Allergen Specification Agency<br>Allergen Specification Name<br>Allergen Type Code<br>Level of Containment<br>Allergen Relevant Data Provided                                       | allergenSpecificationAgency<br>allergenSpecificationName<br>allergenTypeCode<br>levelOfContainment<br>isAllergenRelevantDataProvided      | <b>Please see additional note below regarding allergens</b>  |
| <b>Additional Information</b>  |   |   |  |
| Child Nutrition Label          | Does Trade Item Carry USDA Child Nutrition Label  | doesTradeItemCarryUSDAChildNutritionLabel   | Publish if applicable  |
| Diet Type                      | Diet Type Code  | dietTypeCode  | Publish if applicable  |
| Organic                        | Organic Claim Agency & Organic Trade Item Code  | organicClaimAgency & organicTradeItemCode   | Publish if applicable  |
| Genetically Modified           | Genetically Modified Declaration Code   | geneticallyModifiedDeclarationCode  | Publish if applicable  |
| Non-GMO Project Verified       | Packaging Marked Label Accreditation Code/Non GMO Project   | packagingMarkedLabelAccreditationCode   | Publish if applicable  |

**\*\*The Major Food Allergens include: Peanuts, Tree Nuts, Eggs, Milk, Fish, Molluscs or Crustacean or shellfish (any of the three can be published to count as complete for that allergen), Soy, Sesame Seeds and Wheat. The *isAllergenRelevantDataProvided* attribute must be published and set to *true* if a claim is not made for ALL of the Major Food Allergens.**



## Image Notes

Images are among the top customer-requested Marketing & Nutritional attributes. Providing quality images can drive customer interest in your item offering and set your products apart from competitors. Please review the [Dot Foods Image Requirements document](#) for additional information.

## Nutrition Notes

The data attribute “nutrientTypeCode” is a coded value that Dot Foods will validate. Dot follows and validates based on the INFOODS guidelines of accepted unit of measures. Some of the common codes, their descriptions, and standard units-of-measure are shown below.

| Label                   | Code           | UOM        |
|-------------------------|----------------|------------|
| Alcohol                 | ALC            | GRM        |
| Ash (g)                 | ASH            | GRM        |
| Biotin (mcg)            | BIOT           | MCG        |
| Calcium (mg)            | CA             | MGM        |
| Caffeine (mg)           | CAFFN          | MGM        |
| Calories (cal)          | ENER- or ENERC | E14 or KJO |
| Calories from Fat (cal) | ENERPF         | E14 or KJO |
| A-Beta Carotene (mg)    | CARTB          | MGM        |
| Carbohydrates (g)       | CHO-           | GRM        |
| Cholesterol (mg)        | CHOL-          | MGM        |
| Copper (mg)             | CU             | MGM        |
| Monounsaturated Fat (g) | FAMS           | GRM        |
| Polyunsaturated Fat (g) | FAPU           | GRM        |
| Omega 3 Fatty Acids     | FAPUN3         | GRM        |
| Omega 6 Fatty Acids     | FAPUN6         | GRM        |
| Saturated Fat (g)       | FASAT          | GRM        |
| Total Fat (g)           | FATNLEA        | GRM        |
| Trans fatty Acids (g)   | FATRAN         | GRM        |
| Insoluble Fiber (g)     | FIBINS         | GRM        |
| Soluble Fiber (g)       | FIBSOL         | GRM        |
| Total Dietary Fiber (g) | FIBTSW         | GRM        |
| Folate (mcg)            | FOL- or FOL    | MCG        |
| Iron (mg)               | FE or HAEM     | MGM        |
| Iodine (mcg)            | ID             | MCG        |

| Label                 | Code              | UOM |
|-----------------------|-------------------|-----|
| Potassium (mg)        | K                 | MGM |
| Magnesium (mg)        | MG                | MGM |
| Sodium (mg)           | NA                | MGM |
| Niacin-B3             | NIA               | MGM |
| Niacin Equiv. (mg NE) | NIAEQ             | MGM |
| Organic Acid          | OA                | GRM |
| Phosphorous (mg)      | P                 | MGM |
| Pantothenic Acid (mg) | PANTAC            | MGM |
| Protein (g)           | PRO-              | GRM |
| Riboflavin-B2 (mg)    | RIBF              | MGM |
| Starch (g)            | STARCH- or STARCH | GRM |
| Sugar Alcohol         | POLYL             | GRM |
| Total Sugar (g)       | SUGAR- or SUGAR   | GRM |
| Thiamin-B1 (mg)       | THIA              | MGM |
| Vitamin A (IU)        | VITA-             | MCG |
| Vitamin A (mcg)       | VITA              | MCG |
| Vitamin B6 (mg)       | VITB6-            | MGM |
| Vitamin B12 (mcg)     | VITB12            | MCG |
| Vitamin C (mg)        | VITC- or VITC     | MGM |
| Vitamin D (mcg)       | VITD-             | MCG |
| Vitamin E (mg)        | VITE-             | MGM |
| Vitamin K (mcg)       | VITK              | MCG |
| Water (g)             | WATER             | GRM |
| Zinc (mg)             | ZN                | MGM |

## Pack Size Information

Dot uses the published pack size to generate the product descriptions on our [Dot Foods website](#)

- Assign and publish GTINs to all levels of packaging. The net content at the lowest level of the hierarchy will be the size. The number of units at the higher levels will determine the pack.
  - Example: Consumer unit GTIN published net content is “4 ounces.” Inner pack GTIN published is “6” units (the number of consumer unit items within one inner pack). Case GTIN published is “2” units (the number of inner pack items within one case). In this example, the pack size is 2-6-4 OZ.



- If the cases contain inner packs that are not barcoded, use the following GDSN fields to send the unmarked “contents” of the GTIN:
  - Inner Pack Quantity (No GTIN Assigned)
  - Item in Inner Pack Quantity (No GTIN Assigned)
  - Individual Unit Measures – Min/Max and Unit of Measure
    - Example: A bulk pack item that is a 4-5 lb. case. Inner pack quantity published is “4.” Individual unit min/max published is “5 pounds.”
    - Example: A case of 4 steaks where the size of the individual item is a range (12-14oz.). Inner pack quantity published is “4.” Individual unit min published is “12 ounces,” and individual unit max published is “14 ounces.”

## Physical Item Audit

Dot Foods conducts physical audits of case information to verify and improve the quality of information received via GDSN. The attributes that are being verified are:

- GTIN/Barcode – Mismatch, Will not scan, and No GTIN
- Case Dimensions – Height, Width, and Depth
- Case Gross Weight

The audit results are integrated with the GDSN data to report and manage discrepancies using both CIC (Catalogue Item Confirmation) messages and reports/scorecards. The case dimension and gross weight audit data is obtained from the CubiScan® equipment. The scanned audit values are then checked against the corresponding GDSN values. The tolerances being used by Dot Foods are the GS1 US recommended tolerance values.

| Attribute                                | GS1 Industry Tolerance | Attribute                 | GS1 Industry Tolerance | Notes   |
|--|------------------------|---------------------------|------------------------|---|
| <b>Dimensions (Height, Width, Depth)</b> |                        | <b>Gross Weight</b>       |                        |   |
| Frozen Goods                             | 5%                     | Frozen Goods              | 6%                     |   |
| Refrigerated Goods                       | 4%                     | Refrigerated Goods        | 4%                     |   |
| Dry/Shelf Stable Goods                   | 4%                     | Dry/Shelf Stable Goods    | 4%                     |   |
| Small item                               | .25 in                 | Small Item                | .20 lb.                | Dimensions less than 6.25”                                      |
| High Cube Low Weight                     | Temperature Tol.       | High Cube Low Weight      | .50 lb.                | Volume greater than 1.75 cubic feet with weight less than 12 lb |
| Paper Product                            | 5%                     | Paper Product             | 9%                     | Product in flexible plastic packaging and/or corrugated case    |
| Large Flexible Item (Bag)                | 1.25 in                | Large Flexible Item (Bag) | 4%                     | Flexible packages with declared net content greater than 15 lb  |

## Temperature Information

The below is how Dot calculates the storage code on an item based on the published storage temperatures. Actual storage code may vary.

| Storage Temp Min | Storage Temp Max | Storage Code     |
|------------------|------------------|------------------|
| ≤27              | ≤70              | Frozen           |
| >27              | ≤70              | Refrigerated     |
| ≤70              | >70              | Dry/Shelf Stable |