



Topco Associates, LLC
Data Synchronization Implementation Guide

Version 4



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1 TOPCO ASSOCIATES DATA SYNCHRONIZATION INFORMATION

1.1 Primary Data Synchronization Contact

1WorldSync Customer Support:
+1 866.280.4013
businessdevelopment@1worldsync.com
technicalsupport@1WorldSync.com

Topco Associates Direct Support:
masterdata@topco.com
Elizabeth Mokate – emokate@topco.com

1.2 TOPCO ASSOCIATES GLN - Publish To

Production: **003680000001**



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2 STEPS TO BEGIN SYNCING YOUR DATA WITH TOPCO ASSOCIATES

Implementation Steps

1. A full list of foodservice attribute requirements for GDSN is available for review in Section 3 of this document. If you are currently unable to provide the full list of attributes requested, please send what you have available today. You can send additional attributes as they become available. The Topco Playlist can be leveraged for 1WorldSync Item Management users.
2. Complete the **Trading Partner Form** on the Topco Associates landing page at <https://www.1worldsync.com/community/customers/topco/>. This will trigger the data sync process.
3. Have your accurate item data loaded into your GDSN certified data pool and ensure it is ready for publication in Production.
 - a. Contact your data pool for any education you might require completing this step.
4. Publish a maximum of 5 items to Topco Associates GLN **003680000001**
 - a. Topco Master Data will review the publications and provide feedback on non-compliant items or any other issues with the item publications

Publication Steps

5. All Suppliers should publish **full catalog for all categories** and all item levels in your packaging configuration (hierarchy) Each, Inner Pack, Case, and Pallet to Topco Associates GLN **003680000001** in Production.
6. For the first publication Suppliers are to publish all products as "Initial Load".
7. To ensure Topco received your item publication, check that the sync status for each item published is listed as "Sent to Subscriber".
8. Maintain any changes to item attributes in the publication to keep data in sync with Topco

Images

At least one primary image is required for each item record. Images must be in compliance with GS1 image standards, shown below. More information can be found here:

https://www.gs1.org/sites/default/files/docs/gdsn/Product_Image_Specification.pdf

Taking the Image

Definition of Product Image URL: The Uniform Resource Locator (URL) for the high-resolution product image that clearly depicts the primary selling surface of the product. Retailers should be able to use the image to authenticate the identity of the item.

Assumptions are that the primary selling surface is equivalent to the functional front of the product or the Default Front of the item as outlined in the GS1 Package Measurement Rules (Section 4.2) and the GS1 Product Image Specifications (Section 1.1).

Please consult your camera manufacturer (smartphone or other) or Solution Provider for these settings before capturing any images.

Naming the Image

To name the product image file, follow these guidelines:

Example: 00012345678905_C1C1.tiff

GTIN	Global Trade Item Number: 14-digit format	00012345678905
Separator	Underscore	_
Image Type	Product Image (High Resolution)	C
Facing	Front	1
Angle	Center	C
State	In Package	1

The following are GS1 Product Image Specifications (Section 2.6, 2.7, and 2.8) that need to be followed:

Image Type: Product Image (High Resolution)

Size Range (pixels): 2401 x 2401 – 4800 x 4800

Resolution: 300 ppi

Format: JPG, PNG, GIF, TIFF

Color Mode: RGB

Clipping Path: Required

Aspect Ratio: 1:1 Square

Background: White (RGB: 255/255/255)



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3 ATTRIBUTE REQUIREMENTS

Please note: If you are currently unable to provide the full list of attributes requested, please send what you have available today. You can send additional attributes as they become available. Attribute definitions can be found in the **Participant Dictionary**. To download the Participant Dictionary log into the 1WorldSync Solution Center, and download from the Implementation tab.

Key		
R	Required	Minimum subset of attributes that are required to pass all audits
C	Conditional	Dependent attributes become GDSN Mandatory based on the population of another attribute, or based on the value populated for another attribute.
O	Optional	Additional attributes requested by Topco Associates

Core GDSN Attributes

1WorldSync Attribute Name	Global Data Dictionary Tag	Attribute Required	Additional Comments
Information Provider GLN	informationProviderOfTradeItem	R	
Information Provider Name	nameOfInformationProvider		
Brand	brand Name	R	
GTIN	GTIN	R	14-Digit GTIN number
Product Type	tradeItemUnitDescriptor	R	
Brand Owner GLN Name	nameOfBrandOwner	O	Defaulted based on the brandOwnerGLN provided.
Brand Owner GLN	brandOwner	O	Populate this field with the GLN used to identify the owner of the brand.
Alternate Item Identification Agency	additionalTradeItemIdentificationTypeCode	R	
Alternate Item Identification Id	additionalTradeItemIdentificationValue	R	
Short Description / POS Desc. 1	descriptionShort	R	
Product Description	tradeItemDescription	R	
Additional Description	additionalTradeItemDescription	R	
Base Unit Indicator	isTradeItemABaseUnit	R	This level cannot have any lower levels.
Orderable Unit	isTradeItemAnOrderableUnit	R	This may be different from what the information provider identifies as a dispatch unit.
Consumer Unit Indicator	isTradeItemAConsumerUnit	R	
Dispatch Unit Indicator	isTradeItemADespatchUnit	R	
Invoice Unit Indicator	sTradeItemAnInvoiceUnit	R	
Country of Origin	tradeItemCountryOfOrigin	R	
Target Market	targetMarketCountryCode	R	
Functional Name	functionalName	R	Should help clarify the product classification associated with the GTIN.
GPC Code	classificationCategoryCode	R	
GS1 Trade Item ID Key Code	gs1TradeItemIdentificationKey/code	C	
GS1 Trade Item ID Key Value	gs1TradeItemIdentificationKey/value	C	



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Weights, Dimensions & Count

1WorldSync Attribute Name	Global Data Dictionary Tag	Attribute Required	Additional Comments
Gross Weight	grossWeight	R	If attribute isTradeItemAService = "No" then the Gross Weight field becomes required
Qty of Next Level Item(s)	totalQuantityOfNextLowerLevelTradeItem	R	
Net Weight	netWeight	R	
Net Content	netContent	R	Only required for the consumer unit or the EACH.
Variable Weight Trade Item	isTradeItemAVariableUnit	R	
Height	height	R	
Width	width	R	
Depth	depth	R	
Volume	tradeItemMeasurements	R	Mandatory on the case level and a CIC will be returned if it is missing or if a provided value is more than 12% out of tolerance with the calculated volume (from the dimensions)

Handling & Delivery

1WorldSync Attribute Name	Global Data Dictionary Tag	Attribute Required	Additional Comments
Pallet Hi	quantityOfCompleteLayersContainedInATradeItem	R	
Pallet Tic	quantityOfTradeItemsContainedInACompleteLayer	R	
non GTIN Pallet Ti	quantityOfTradeItemsPerPalletLayer	R	
non GTIN Pallet Hi	quantityOfLayersPerPallet	R	
Min Order Quantity	deliveryPurchasingInformationModule/deliveryPurchasingInformation/orderQuantityMinimum	R	
Min Product Lifespan from Arrival	minimumTradeItemLifespanFromArrival	R	
Min Product Lifespan from Production	minimumTradeItemLifespanFromTimeOfProduction	R	
Temperature Qualifier Code = STORAGE_HANDLING Maximum Temperature/UOM	temperatureQualifierCode minimumTemperature/uom	R	
Temperature Qualifier Code = STORAGE_HANDLING Maximum Temperature/UOM	temperatureQualifierCode maximumTemperature/uom	R	
Effective Date	effectiveDate	R	
Packaging Marked Returnable	discontinuedDateTime/cancelledDateTime	C	



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1WorldSync Attribute Name	Global Data Dictionary Tag	Attribute Required	Additional Comments
Product Marked Recyclable	sPackagingMarkedReturnable	R	
National Brand Description	nationalBrandEquivalentDescription	Required if Private Label	
National Brand GTIN 12	nationalBrandEquivalentGTIN12	Required if Private Label	
National Brand Name	nationalBrandEquivalentName	Required if Private Label	
National Brand Net Content	nationalBrandEquivalentNetContent	Required if Private Label	
Container Type (retail)	shippingContainerTypeCode	R	

1WorldSync Attribute Name	Global Data Dictionary Tag	Attribute Required	Additional Comments
First Order Date	deliveryPurchasingInformationModule/deliveryPurchasingInformation/firstOrderDateTime	R	Indicates the earliest date that an order can be placed for the trade item.
Packaging Marking Language	packagingMarkingModule/packagingMarking/packagingMarkedLanguageCode	R	The language(s) in which texts are stated in on the product.

1WorldSync Attribute Name	Global Data Dictionary Tag	Attribute Required	Additional Comments
Regulation Type Code (PROP 65)	regulatedTradeItemModule/regulatoryInformation/regulationTypeCode	MO	
Is Packaging Marked With Regulatory Compliance	regulatedTradeItemModule/regulatoryInformation/isPackagingMarkedWithRegulatoryCompliance	MO	
Contains Pseudoephedrine (PSE)	warningCopyDescriptions/warningCopyDescription	MO	
Contains Dextromethorphan (DXM)	warningCopyDescriptions/warningCopyDescription	MO	
Cleaning Product Regulation - Ingredient Disclosure	Ingredient statement	MO	
Adverse Event Reporting Agreement (AERA)	warningCopyDescriptions/warningCopyDescription	MO	

Allergens:

A trade item must specify the following GDSN attributes for each of the "Big 8" allergens for at least one level within the item hierarchy: allergenTypeCode & levelOfContainment

1WorldSync Name	Global Data Dictionary Tag
Allergen Type Code	allergenTypeCode
Level of Containment	levelOfContainmentCode

Allergen Type Codes:

Below is a list of the required "Big 8" Allergens. The attribute "Allergen Type Code" is a coded attribute, so please reference the associated code listed below.

Allergen Type Codes	
AM	Milk and its derivatives
AS	Sesame Seeds and their derivatives
AY	Soybeans and their derivatives
AN	Nuts and their derivatives
UW	Wheat and its derivatives
AC	Crustaceans and their derivatives
AE	Eggs and their derivatives
AF	Fish and their derivatives



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Nutrient Type Code:

**All Nutrient Type Codes are from the list of the INFOODS food component tag names identifying nutrients contained in the product. The percentage of the recommended daily intake of a nutrient as recommended by authorities of the target market.
(<http://www.fao.org/infoods/infoods/standards-guidelines/food-component-identifiers-tagnames/en/>)

Nutritional Facts Panel - should be displayed using the below attributes:

Attribute	1WorldSync Name	Global Data Dictionary Tag
Serving Size	Serving Size Serving Size UoM	servingSize servingSizeUoM
Servings per Package	Number Of Servings Per Package	numberOfServingsPerPackage
Nutrition Facts	Serving Size Preparation State Measurement Precision Nutrient Type Code Percentage of Daily Value Intake Nutrient Quantity Contained Nutrient Quantity Contained UOM	preparationState measurementPrecision nutrientTypeCode percentageOfDailyValueIntake quantityContained quantityContainedUoM

The data attribute "nutrientTypeCode" is a coded value. Use the below table to reference the list of Nutrient Type Codes and preferred Units of measure.

Nutrient	Nutrient Type Code	Quantity Contained	Nutrient	Nutrient Type Code	Quantity Contained
Potassium	K	MGM	Biotin	BIOT	MC
Total Carbohydrate	CHO-	GRM	Pantothenic Acid	PANTAC	MGM
Dietary Fiber	FIBTSW	GRM	Phosphorus	P	MGM
Soluble Fiber	FIBSOL	GRM	Iodine	ID	MC
Insoluble Fiber	FIBINS	GRM	Magnesium	MG	MGM
Sugars	SUGAR-	GRM	Zinc	ZN	MGM
Sugar Alcohol	POLYL	GRM	Copper	CU	MGM
Protein	PRO-	GRM	Total Calories	ENER-	D70/KJO
Vitamin A	VITA-	MC/NIU	Calories from Fat	ENERPF	D70/KJO
Calcium	CA	MGM	Calories from Sat Fat	ENERSF	D70/KJO
Iron	FE	MGM	Total Fat	FATNLEA	GRM
A-Beta Carotene	CARTB	MGM	Transfatty Acids	FATRAN	GRM
Vitamin D	VITD-	MC	Saturated Fat	FASAT	GRM
Vitamin E	THIA	MGM	Polyunsaturated Fat	FAPU	GRM
Riboflavin	RIBF	MGM	Monounsaturated Fat	FAMS	GRM
Niacin Vitamin B	NIA	MGM	Cholesterol	CHOL-	MGM
Folate	FOL-	MC	Sodium	K	MGM
Vitamin B 12	VITB12	MC	Vitamin C	VITAC-	MGM



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REVISION HISTORY

Date	Ver #	Description of Change	Author
06-19-2017	1	Initial document	B. Curran
08-07-2017	2	Reformat attribute section	J. Nelson
07-06-2018	3	Removed Spec page & CIC reference	J. Nelson
11-04-2019	4	Image Specs & Private Label Attributes	E. Mokate