Independent Purchasing Cooperative, Inc.
Data Synchronization Implementation Guide

Version #11

REVISION HISTORY

Date	Ver #	Description of Change	Author
06-10-2015	1	Initial document	C. Macias
06-16-2015	2	Updated Primary Data Synchronization Contact	B. Curran
10-20-2015	3	Updated Order Sizing description/IPC Comments	B. Curran
11-04-2015	4	Updated Pack-Size Attributes, Updated Ti/Hi Attributes	B. Curran/ K. Danner
01-26-2016	5	Added New Attributes	K. Danner
02-02-2016	6	Made a few changes on instructions	L. Angarita
03-30-2016	7	Updated GLN registered name to "*Doctor's Associates, Inc.*"	B. Curran
4-18-2016	8	Updated Steps To Synchronize / Added CIC Messages Section	B. Curran
10-31-2016	9	Updated for Major Release 3	K. Danner
05-05-2017	10	Added Phase 2 Foodservice Attributes	J.Nelson
06-01-2017	11	Update logo, add Imperial/Metric unit of measure comments	B. Curran

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1   STEPS TO BEGIN SYNCING YOUR DATA WITH IPC

1. Load accurate item information into your GDSN certified data pool provider

2. Review attribute requirements in Section 3 of the [IPC Implementation Guide](#)

3. Complete the required information on the IPC Trading Partner Form located on the [IPC Landing Page](#).

    a. IPC will create a subscription for the Information Provider GLN(s) submitted via the Trading Partner Form.

    b. This is a required step to trigger the data sync process.

4. Publish information for all items sold to SUBWAY® including SUBWAY® branded items and manufacturer branded items.

    a. Publish to <u>IPC and ALL Distributors and Redistributors</u> that carry your items.

    b. **IPC GLN to publish to: 0825146000000 – "Doctor's Associates, Inc."**

    c. IPC Contact Email: ipcgs1@ipcoop.com

5. Publish items for all Target Markets.

6. Publish CASE level information only for SUBWAY® branded items

7. Publish item data with the appropriate Publication Types of 'Initial Load' or 'New'.

    a. "**Initial Load**" for existing item information (items already sold in system).

    b. "**New**" for brand new item introductions

8. Publish "Phase 1" (Supply Chain information) required attributes for ALL new items via the GDSN immediately after a GTIN is issued

9. Publish "Phase 2" (Nutritionals and Marketing information- including images) required attributes for ALL new items via the GDSN immediately after a GTIN is issued

10. Suppliers can use the **brandDistributionType** flag in each publication to tell distributors to relax their validations and allow proprietary items to bypass their audits for additional item information

    a. Please contact your data pool for assistance with populating this attribute.

2   CIC RESPONSES

IPC will provide feedback on publications using the Catalogue Item Confirmation (CIC) responses.

1. Suppliers can expect to receive CICs within 2-3 hours of IPC having received the publication.

    a. **RECEIVED**: IPC received the product information but no business decision has been made on the data.

    b. **SYNCHRONIZED**: Product information passed the IPC mandatory requirements and/or audits and was successfully uploaded to their internal system.

    c. **REVIEW**: Product information did not pass the IPC audits and action is required on the Supplier's side to update the product information.

        i. Data provided in GDSN is compared to IPC's internal systems.

        ii. CIC Reviews will be returned if any item has a discrepancy that is out of tolerance for weights or dimensions compared to IPC's internal system, or if an item does not have all the required the fields needed (such as individualUnitMaximumSize).

        iii. Please note: IPC uses the Status Details to provide additional information on what was discrepant.

        iv. If GDSN data is correct supplier needs to send an email confirming GDSN is correct for GTIN's listed in email, and IPC system will to be updated with GDSN data

    d. **REJECT**: IPC does not buy this product and does not want to synchronize on the product information.

2. Continue to send changes and corrections for all items via the GDSN process.

3. Ensure your case weights and dimensions are accurate using a cubiscan and following package measurement rules as per GS1.

4. Manufacturers will be scorecarded on data quality.

3   ATTRIBUTE REQUIREMENTS

3.1   IPC Mandatory

In addition to the GDSN mandatory attributes, IPC requires the attributes in the tables below. Please note that failure to provide these attributes will result in a REVIEW CIC being generated back to the Supplier and the data will not be integrated into IPC's backend systems until these attributes are provided.

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Manufacturer Product Number	additionalTradeItemIdentificationType and additionalTradeItemIdentification Value	Alternate Item Identification Maintenance Agency and Alternate Item Number	alternateItemIdentification/agency and alternateItemIdentification/id	SUPPLIER_ASSIGNED
Manufacturer Short Product Description	descriptionShort	Short Description / POS Desc. 1	shortDescription	
Product Name	tradeItemDescription	Product Description	productDescription	
Storage Temperature Min. with UoM	temperatureQualifierCode minimumTemperature/uom	Temperature Qualifier Code = STORAGE_HANDLING Minimum Temperature/UOM	tradeItemTemperatureInformation/temperatureQualifierCode tradeItemTemperatureInformation/minimumTemperature	Please ensure to consistently place all measurements, weights and temperatures in either **Imperial system** (i.e. feet, inches, pounds, and Fahrenheit) or **Metric system** (i.e. meters, grams, kilo, Celsius)
Storage Temperature Max. with UoM	Temperature Qualifier Code = STORAGE_HANDLING Maximum Temperature/UOM	Temperature Qualifier Code = STORAGE_HANDLING Maximum Temperature/UOM	tradeItemTemperatureInformation/temperatureQualifierCode tradeItemTemperatureInformation/maximumTemperature	Please ensure to consistently place all measurements, weights and temperatures in either **Imperial system** (i.e. feet, inches, pounds, and Fahrenheit) or **Metric system** (i.e. meters, grams, kilo, Celsius)

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GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Gross Weight with UoM	grossWeight / UOM	Gross Weight / UOM	grossWeight / UOM	Please ensure to consistently place all measurements, weights and temperatures in either **Imperial system** (i.e. feet, inches, pounds, and Fahrenheit) or **Metric system** (i.e. meters, grams, kilo, Celsius)
Net Weight with UoM	netWeight / UOM	Net Weight / UOM	netWeight / UOM	Please ensure to consistently place all measurements, weights and temperatures in either **Imperial system** (i.e. feet, inches, pounds, and Fahrenheit) or **Metric system** (i.e. meters, grams, kilo, Celsius)
Num of Complete Layers Cont in Item/GTIN Pallet Hi	quantityOfCompleteLayersContainedInATradeItem	Pallet Hi	hi	# of layers in each pallet
Num of Items in a Complete Layer/GTIN Pallet Ti	quantityOfTradeItemsContainedInACompleteLayer	Pallet Ti	ti	# of cases in each layer
Shelf Life (day from production)	minimumTradeItemLifespanFromTimeOfProduction	Min Product Lifespan from Production	minimumTradeItemLifespanFromProduction	Required Attribute - The period of days, guaranteed by the manufacturer, before the expiration date of the product, based on the production.
Country of Origin	tradeItemCountryOfOrigin	Country of Origin	countryOfOrigin	
Order Sizing	orderSizingFactor	Order Sizing Factor	orderSizingFactor	A trade item specification other than gross, net weight, or cubic feet for a line trade item or a transaction, used for order sizing and pricing purposes. For example, factors may be used to cube a truck, reflecting different weights, and dimensions of truckload. IPC is asking for the number of cases/truckload to be published in this field.

3.1.1   **SUBWAY BRANDED PRODUCTS REQUIRED ATTRIBUTE FIELDS**

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Brand Name	brandName	Brand Name	brandName	When Brand Name = SUBWAY and Product Type = CA, GTIN must begin with '30825146'
Brand Owner GLN	brandOwner	Brand Owner GLN	brandOwner	When Brand Name = SUBWAY, Brand Owner GLN must be 0825146000000
Brand Owner Name	nameOfBrandOwner	Brand Owner Name	nameOfBrandOwner	When Brand Name = SUBWAY, Brand Owner Name must be Doctors Associates Inc

***Please note – For ALL SUBWAY branded items suppliers MUST publish at the case level and provide all mandatory GDSN attributes ("core or Phase 1 data").
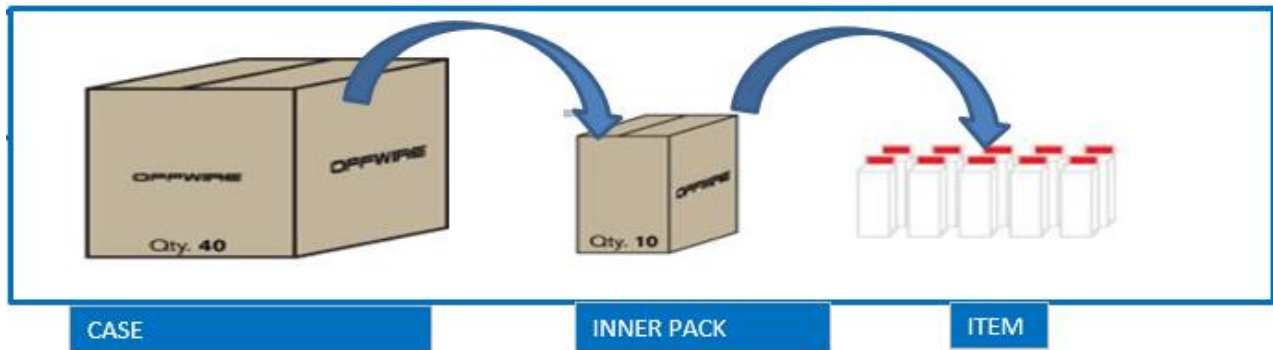
3.1.2   PACK SIZE ATTRIBUTE REQUIREMENTS

IPC requires that the Pack Size provided via your publications accurately reflects the way the product is packaged. Please see below for guidelines on how to populate the fields that are used to develop the Pack Size. These guidelines must be followed for all SUBWAY® branded items published at the CASE level only. No other hierarchies should be published for SUBWAY® products.

GDSN Attribute Name	GDD Tag	Values Needed for Your Product: 6 trays of 30 cookies each with a net content of 1.7 oz.	Definition
Net Content with UoM	netContent / UOM	180 EACH	This needs to be the Net Content of the CASE.
Inner Pack Quantity (No GTIN Assigned)	quantityOfInnerPack	6	The number of inner packs are inside the case, when inner packs have no assigned GTIN
Item in Inner Pack Quantity (No GTIN Assigned)	quantityOfNextLevelTradeItemWithinInnerPack	30	The number of items contained inside the inner pack, when those items have no assigned GTIN
Pack Size Text	shippingContainerQuantityDescription	180/1.7 OZ BAGNBOX BULK PACK	Should accurately reflect the way the product is packaged and should include information regarding the type of items in the case: bottle, jar, jug, bag
Individual Unit Maximum & UOM	individualUnitMaximumSize / UOM	1.7 OZ	The maximum or largest size of the individual unit inside the lowest level of packaging expressed as a measurement. In this example is the net content for each individual cookie.

3.2   IPC Recommended

The attributes in the following table are strongly recommended to be populated. Failure to provide these attributes will not result in a REVIEW CIC being generated and the product information will be integrated, however, at a future point in the data synchronization process, IPC will call upon you to provide these attributes. The information in the following table is necessary for SUBWAY® Operating divisions.

3.2.1   ADDITIONAL ATTRIBUTE FIELDS

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Discontinue / Cancel Date	discontinuedDate / canceledDate	Discontinued Date / Canceled Date	discontinueDate / cancelDate	When applicable
Kosher, Organic, Vegan, Halal, Gluten-free, etc.	dietTypeCode	Diet Type Code	foodAndBevDietTypeInfo/dietTypeCode	
Brand Distribution Type	brandDistributionType	Brand Distribution Type	brandDistributionType	Indicates whether there is restrictions distribution on the item. This flag indicates to distributors to relax their validations and allow proprietary items to bypass their audits for additional item information such as nutritional or marketing data. If you have any questions, please contact your data pool and they will assist you with populating this attribute. **IPC will accept Nutritionals and Marketing information (including images) to be published as long as the nutritionals information is published per 100 grams and not per serving size.

3.3   Phase 2 Foodservice Attributes

IPC now requires suppliers to publish all applicable Phase 2 attributes. Note: REVIEW CICs will not be sent back at this time for missing marketing, nutrition, allergen information. Please see the list of Phase 2 categories below. Also, notice the following attribute tables outlining the required attributes for each category.

Phase 2
MARKETING INFORMATION INCLUDE DETAILS YOU WOULD USE TO SELL AND MARKET AN ITEM.   • STORAGE AND USAGE   • PRODUCT BENEFITS   • PREPARATION AND COOKING INSTRUCTIONS   • SERVING SUGGESTIONS   • INGREDIENTS   • CHILD NUTRITION LABEL   • LINKS TO WEBSITE/IMAGES/DOCUMENTS   • NUTRIENTS   • ALLERGENS

3.3.1   STORAGE AND USAGE ATTRIBUTES

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Storage and Usage	consumerInstructionsModule/consumerInstructions/consumerStorageInstructions	Consumer Storage Instructions	consumerStorageInstructions	Expresses in text the consumer usage instructions of a product which are normally held on the label or accompanying the product. This information may or may not be labeled on the pack. Instructions may refer to how the consumer is to use the product, This does not include storage, food preparations, drug dosage and, preparation instructions. Allows for the representation of same value in different languages.
Storage and Usage	consumerInstructionsModule/consumerInstructions/consumerStorageInstructions	Consumer Storage Instructions	consumerStorageInstructions	Expresses in text the consumer storage instructions of a product which are normally held on the label or accompanying the product. This information may or may not be labeled on the pack. Instructions may refer to a suggested storage temperature, or a specific storage requirement. Allows for the representation of same value in different languages.

‘Storage and Usage’ can have multiple values in GDSN. Take note the same field may refer to how the consumer is to use the product, a suggested storage temperature, or a suggested storage method.

3.3.2   PREPARATION INFORMATION

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Preparation & Cooking Instructions	preparationType	Preparation Type	preparationType	A code specifying the technique used to make the product ready for consumption. For example: baking, boiling. This group of attributes can be repeated for all preparation instructions.
Preparation & Cooking Instructions	preparationInstructions	Preparation Instructions	preparationInstructions	Textual instruction on how to prepare the product before serving. Allows for the representation of the same value in different languages but not multiple values.

3.3.3 SERVING SUGGESTIONS

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Serving Suggestions	servingSuggestion	Serving Suggestions	servingSuggestion	Free text field for serving suggestion. Allows for the representation of the same value in different languages but not multiple values.
Servings of the Trade Item Unit with	numberOfServingsPerPackage	Measurement Precision Of Number Of Servings Per Package	measurementPrecisionOfNumberOfServingsPerPackage	The total number of servings contained in the package.
Serving Size Text	servingSizeDescription	Serving Size Description	servingSizeDescription	A free text field specifying the serving size for which the nutrient information has been stated for example: per 1/3 cup (42 g). Allows for the representation of the same value in different languages but not for multiple values.
Nutrition Fact Serving Size with UOM	servingSize / servingSizeWeight	Serving Size / UoM	servingSize	Weight in grams of the actual serving size. Should only be populated if the actual serving size for the trade item is not expressed in grams. This is a temporary attribute and will become part of serving size in a future release.

3.3.4 INGREDIENTS

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Ingredients English (& Spanish optional)	ingredientStatement	Ingredient Statement	ingredientStatement	Information on the constituent ingredient make-up of the product specified as one string. Allows for the representation of the same value in different languages but not for different values.

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GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Ingredients English (& Spanish optional)	ingredientSequence	Ingredient Sequence	ingredientSequence	Integer (1, 2, 3…) indicating the ingredient order by content percentage of the product. (major ingredient = 1, second ingredient = 2) etc. Definition in process of changing to reference a different format of ##.##.##.## etc. instead of integer for sorting purposes.
Ingredients English (& Spanish optional)	ingredientName	Ingredient Name	ingredientName	Text field indicating one ingredient or ingredient group (according to regulations of the target market). Ingredients include any additives (colourings, preservatives, e-numbers, etc) that are encompassed.
Growing Method	growingMethodCode	Growing Method Code	growingMethodCode	The process through which fresh produce is grown and cultivated.
GMO Declaration (Ingredient Level)	geneticallyModifiedDeclarationCode (Ingredient level)			A statement of the presence or absence of genetically modified protein or DNA.
Organic (Ingredient Level)	organicClaimAgencyCode (Ingredient level)	Organic Claim Agency	organicClaimAgencyCode	A governing body that creates and maintains standards related to organic products.
Organic (Ingredient Level)	organicTradeItemCode (Item Level)	Organic Trade Item Code	organicTradeItemCode	This is the regulatory agency or certification body against which the specified ingredient's organic claim has been measured. This agency or body controls the measurement definitions against which the item has been compared. This group of attributes can be repeated for as many agencies are applicable to the ingredient.

3.3.5   CHILD NUTRITIONAL INFORMATION

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Child nutrition label available	nutritionalLabelTypeCode	Nutrition Label Type Code	nutritionLabelTypeCode	Code indicating that the trade item is eligible for certain nutritional labelling programs according to a specific regulation

3.3.6   LINKS TO WEBSITE/IMAGES/DOCUMENTS

GDSN Attribute Name	GDD Tag	1WorldSync Name	1WorldSync XML Tag	IPC Comments
Links to Websites, Images, Documents, Video, Audio Files	uniformResourceIdentifier	Uniform Resource Identifier	uniformResourceIdentifier	The type of file that is being referenced for example Safety Data Sheet or Product Image.
Links to Websites, Images, Documents, Video, Audio Files	fileName	File Name	fileName	Simple text string that refers to a resource on the internet, URLs may refer to documents, resources, people, etc.
Links to Websites, Images, Documents, Video, Audio Files	contentDescription	Content Description	contentDescription	

3.3.7   NUTRITIONAL INFORMATION

IPC is requiring all suppliers of consumable products to provide Nutrition and Allergen information. All information that would be displayed on the supplier's nutritional panel must be provided through GDSN.

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 percentageOfDavileyValueIntake quantityContained quantityContainedUoM

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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 that IPC will be accept.

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-	E14/KJO
Vitamin A	VITA-	MC/NIU	Calories from Fat	ENERPF	E14/KJO
Calcium	CA	MGM	Calories from Sat Fat	ENERSF	E14/KJO
Iron	FE	MGM	Total Fat	FATNLEA	GRM
A-Beta Carotene	CARTB	MGM	Transfatty Acids	FATRN	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

3.3.8   ALLERGEN INFORMATION

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. The allergen information must be displayed through the 2 below Attributes for each of the Big 8 allergens:

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

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