# KeyImpact Sales & Systems, Inc.

## Data Synchronization Implementation Guide

Version 1.1

## REVISION HISTORY

| Date | Ver # | Description of Change | Author |
|------|-------|----------------------|--------|
| 02-06-2017 | 1 | Initial document | A. Dowdy |
| 09-16-2020 | 1.1 | 2020 Update | B. Curran |

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# 1   KEYIMPACT'S DATA SYNCHRONIZATION INFORMATION

## 1.1      Primary Data Synchronization Contact

Name:          Lori Anderson
Phone:         (800) 524-1188 Ext 1160
Email:         landerson@kisales.com

## 1.2      KeyImpact Sales & Systems, Inc. GLN Information- Publish To

Production:    **0867688000308**

## 1.3      Data Sync Environment

Data Pool:     1WorldSync

System:        Sync/PDI – Aligntrac Solutions

## 2 STEPS TO BEGIN SYNCING YOUR DATA WITH KEYIMPACT

**Implementation Steps**

1. Review the attribute requirements for GDSN in Section 3 of this document. For the complete listing of all GDSN and KeyImpact required attributes, refer to the KeyImpact Attribute Guide.

2. Complete the KeyImpact Trading Partner Form found on the KeyImpact Landing page.

    a. KeyImpact will create a subscription based on the Information Provider GLN provided in the Trading Partner Form submission.

    b. KeyImpact will send email to the supplier's primary data synchronization contact when they are ready for the first publications.

3. Have your complete and accurate item data loaded into your GDSN certified data pool and ensure it is ready for publication in Production.

**Publication Steps**

4. KeyImpact Sales & Systems, Inc. requires their Suppliers to publish all products that the Supplier would like to make available to KeyImpact GLN **0867688000308** in Production**.** Items to include:
    a. Items KeyImpact Sales & Systems, Inc. members currently lists.
    b. Items that Supplier would like KeyImpact Sales & Systems, Inc. to list in the future.

5. For the first publication Suppliers are to publish all products as "Initial Load".

6. Investigate and respond to "Review" CIC responses. KeyImpact will provide feedback on publications using the following method

## Catalog Item Confirmations (CIC's)

KeyImpact Sales & Systems, Inc. will automatically return a CIC to the Supplier. The CIC sent will be based upon the following:

**CIC Messages:**

**RECEIVED:** product has been received and has passed KeyImpact Sales & Systems, Inc. GDSN validations. This response will typically be sent within a few hours after receiving the publication.

**REVIEW:** Product does not pass KeyImpact Sales & Systems, Inc. GDSN validations or product has failed KeyImpact Sales & Systems, Inc.'s audit process and therefore has data discrepancies to be reviewed and addressed. Reason for Review status will be transmitted

in CIC999. This response may follow a Received message and may take several days to resolve.

**SYNCHRONIZED:** Product has been fully accepted and loaded into KeyImpact Sales & Systems, Inc. internal system and will be updated as revisions occur. This response will be sent after all validations and audits have been successfully completed.

**REJECTED:** Product has been de-listed by KeyImpact Sales & Systems, Inc..

# 3   ATTRIBUTE REQUIREMENTS

| Key | | |
|---|---|---|
| M | Mandatory | Minimum subset of attributes that are required in order to pass all audits |
| C | Conditional | Conditional |
| R | Requested | Additional attributes requested by (RECIPIENT) |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| GTIN | 14-digit number used to identify item | M | 14-Digit GTIN number |
| targetMarket | The target market indicates the country where the trade item is available for sale. | M | |
| informationProviderGLN | The party providing the information about the trade item. | M | The Information Provide may not be the original source of the item's information but has the responsibility to provide and maintain the data in the catalog. |
| informationProviderName | Name of information provider.  May also be the manufacturer or brand owner or supplier | M | Defaulted from Information Provider GLN |
| shortDescription | A short textual description associated with the product | C | This description can be used on the cash register receipt. This is the first line of the description. |
| AdditionalDescription | Free text field used to record additional product attributes. Use for any additional information necessary to communicate to the industry to help define the product | C | |
| productDescription | An understandable and useable description of a trade item using brand and other descriptors. Allows for the representation of the same value in different languages but not for multiple values. | C | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| globalClassificationCategory /code | Code specifying the Global Product Classification (GPC) for the item | M | An 8 digit code. For example 20000081 - Grape Variety. |
| productType | Hierarchical level of item | M | |
| dataCarrier/dataCarrierType Code | The type of data carrier of bar code physically present or visible on the trade item | C | Becomes mandatory if consumer unit and TM=US |
| grossWeight | The gross weight includes all packaging materials of the trade item. At pallet level the trade item, grossWeight includes the weight of the pallet itself. | M | If attribute isTradeItemAService = "No" then the Gross Weight field becomes required |
| grossWeightUOM | Gross weight of the item Unit of Measure | C | This UOM attribute becomes required when grossWeight is populated. |
| volume | The dimensions of an imaginary cube which can be drawn around the trade item as defined in the formula of H X W X D | M | 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) |
| VolumeUOM | Volume of the item Unit of Measure | C | This UOM attribute becomes required when volume is populated. |
| netContent | The amount of the trade item contained by a package, usually as claimed on the label | C | Only required for the consumer unit or the EACH. |
| netContentUOM | The amount of the trade item contained by a package, usually as claimed on the label Unit of Measure | C | This UOM attribute becomes required when netContent is populated. |
| depth | Measurement, front to back of the item | M | |
| depthUOM | Measurement, front to back of the item Unit of Measure | M | |
| height | Measurement, vertical dimensions of the item | M | |
| heightUOM | Measurement, vertical dimensions of the item Unit of Measure | M | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| width | Measurement, left to right of the item | **M** | |
| widthUOM | Measurement, left to right of the item Unit of Measure | **M** | |
| startAvailabilityDate | The date (YYYY-MM-DDTHH:MM:SS) from which the trade item becomes available from the supplier, including seasonal or temporary trade items and services | **M** | |
| effectiveDate | The date on which the information for "item add" or "item change" is sent to 1WorldSync Item Management Production | **M** | |
| isBaseUnit | An indicator identifying if the packaging level is the lowest level of an item's hierarchy | **M** | This level cannot have any lower levels. |
| isConsumerUnit | Identifies whether the trade item to be taken possession of, or to be consumed or used by an end user or both, as determined by the manufacturer | **M** | The end user could be, but is not limited to, a consumer as in items sold at retail, or an operator for foodservice such as restaurants, airlines, cafeterias, etc. |
| isDispatchUnit | An indicator identifying that the information provider considers the trade item as a dispatch (shipping) unit | **M** | This may be relationship dependent based on channel of trade or other point to point agreement. |
| isInvoiceUnit | An indicator identifying that the information provider will include this trade item on their billing or invoice | **M** | |
| isOrderableUnit | An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers | **M** | This may be different from what the information provider identifies as a dispatch unit. |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| manufacturer/gln | The Global Location Number used to identify the organization that manufactures this trade item | C | |
| manufacturer/name | The name of the manufacturer of this trade item. | C | |
| countryOfOrigin/countryCode | The country code in which the goods have been produced or manufactured, according to criteria established for the purposes of application of the value may or may not be presented on the trade item label | M | |
| brandOwnerGLN | A brand is owned by a particular organization | M | Populate this field with the GLN used to identify the owner of the brand. |
| brandOwnerName | Name of the party who owns the brand of the trade item | M | Defaulted based on the brandOwnerGLN provided. |
| brandName | Brand name for the item | M | |
| functionalName | Functional Name of the item (describes the use of the item) | M | Should help clarify the product classification associated with the GTIN. |
| gs1TradeItemIdentificationKey/value | A value for the alternative means to the Global Trade Item Number to identify a trade item | R | |
| gs1TradeItemIdentificationKey/code | Alternative means to the Global Trade Item Number to identify a trade item | R | If TM = US: If Consumer Unit Indicator is equal to 'true' and the Target Market is equal to US (United States) then Data Carrier Type Code must not be empty |
| hi | The number of layers that a pallet contains | C | Represents Pallet level hierarchy. Required if a pallet GTIN. |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| ti | Indicates the number of trade items in a layer | **C** | Represents Pallet level hierarchy. Required if a pallet GTIN. |
| nonGTINPalletHi | Only used if pallet has no GTIN. In this case it applies to the highest level of the item hierarchy and only 1 pallet configuration can be provided | **C** | Represents highest level of hierarchy if no pallet present. Required if a pallet level GTIN is not published. |
| nonGTINPalletTi | Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet layer according to supplier or retailer preferences | **C** | Represents highest level of hierarchy if no pallet present. Required if a pallet level GTIN is not published. |
| packagingMarkedReturnable | Indicates whether the packaging has markings to indicate returnable packaging | **C** | Select 'Yes' if the package markings indicate the packaging can be returned. |
| isVariableWeightItem | 'Yes' indicates that an article is not a fixed weight, but that the weight is variable | **C** | Example: poultry, fresh fruit and bulk items. |
| packagingInformation/platformTypeCode | Indicates whether the described dispatch unit is delivered on a pallet/platform and on which type of platform | **C** | If the dispatch unit is delivered on a platform, the platform type must be given here |
| alternateItemIdentification/agency | A trade item identifier, usually associated with a specific business need, that is in addition to the GTIN, for example, a buyer's or seller's item number | **C** | |
| alternateItemIdentification/id | A trade item identifier, usually associated with a specific business need, that is in addition to the GTIN, for example, a buyer's or seller's item number | **C** | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| temperatureQualifierCode minimumTemperature/uom | Code qualifying the type of a temperature requirement for example Storage. The minimum temperature that a trade item can be held below defined by the manufacturer without affecting product safety or quality. | R | |
| temperatureQualifierCode maximumTemperature/uom | Code qualifying the type of a temperature requirement for example Storage. The maximum temperature that a trade item can be held below defined by the manufacturer without affecting product safety or quality. | R | |
| minimumTradeItemLifespanFromTimeOfProduction | The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production. | R | |
| minimumTradeItemLifespanFromTimeOfArrival | The period of days, guaranteed by the manufacturer, before the expiration date of the trade item, based on arrival to a mutually agreed to point in the buyer's distribution system. | R | |
| netWeight | Used to identify the net weight of the trade item. Net weight excludes any packaging materials and applies to all levels but consumer unit level. | M | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| netWeight/uom | Used to identify the net weight of the trade item. Net weight excludes any packaging materials and applies to all levels but consumer unit level. | M | |
| isTradeItemAVariableUnit | Yes indicates that an article is not a fixed weight, but that the weight is variable. Example: poultry, fresh fruit and bulk items. | C | |
| quantityOfTradeItemsPerPallet | The number of trade items contained in a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet according to supplier or retailer preferences. | R | |
| dietTypeCode(KOSHER) | Code indicating the diet for, which the product is suitable. | C | |
| dietTypeCode(HALAL) | Code indicating the diet for, which the product is suitable. | C | |
| dietTypeCode(ORGANIC) | Code indicating the diet for, which the product is suitable. | C | |
| dietTypeCode(VEGAN) | Code indicating the diet for, which the product is suitable. | C | |
| shippingContainerQuantityDescription | The quantity of the contents of the shipping container as described on the outside of the shipping container, for example 100 .5 oz envelopes | C | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| hasBatchNumber | Indication whether the base trade item is batch or lot number requested by law, not batch or lot number requested by law but batch or lot number allocated, or not batch or lot number allocated. | C | |
| parentGTIN | Unique product identification number (GTIN) for a parent item with lower-level trade items (children) in a product hierarchy. | C | |
| childGTIN | Unique product identification number (GTIN) for a child item with a higher-level trade item (parent) in a product hierarchy. This item may repeat in the case of a combination pack (multiple GTINs in lower level). | C | |
| totalQuantityOfNextLowerLevelTradeItem | The TOTAL number of next lower level trade items that this trade item contains. For example, if there were 12 Each items contained in a Case item, the Qty of Next Level Item(s) on the Case would be 12. | C | Use this for Unit Quantity if Lower Level Packaging exists and has GTIN |
| quantityOfInnerPack | Indicates the number of non-GTIN assigned inner-packs of next lower level trade items within the current GTIN level. | C | Use this for Unit Quantity if Lower Level Packaging exists with no GTIN |
| quantityOfNextLevelTradeItemWithinInnerPack | Indicates the number of next lower level trade items contained within the physical non-GTIN assigned each or inner-packs (inner-pack). | C | Should be for unmarked inners; dup in 1WS attribute name |
| individualUnitMinimum | Minimum size of the individual unit inside the lowest level of packaging. | R | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| individualUnitMaximum | Maximum size of the individual unit inside the lowest level of packaging. | **R** | |
| isNonSoldTradeItemReturnable | Indicates that the buyer can return the articles that are not sold. Used, for example; with magazines and bread. This is a y/n (Boolean) where y equals right of return. This is at least relevant to General Merchandise, Publishing industries and for some FMCG trade item. | **C** | |
| packagingMaterialTypeCode | The materials used for the packaging of the trade item for example glass or plastic. | **R** | |
| discontinuedDateTime/cancelledDateTime | The date on which the trade item is no longer to be manufactured. Allows the reuse of the GTIN after 48 months with the explicit exception of Apparel, being 30 months and the implicit exception for specialty products (e.g., steel beams). Communicates cancellation of the launch of a trade item that was never and will never be manufactured, but may have been presented to buyers. Allows the reuse of the GTIN 12 months after cancellation. | **R** | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| consumerUsageStorageInstructions | 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, and drug dosage and preparation instructions. | R | |
| tradeItemMarketingMessage | Marketing message associated to the Trade item. | R | |
| preparationType | A code specifying the technique used to make the product ready for consumption. For example: baking, boiling. | C | M if Preparation and Cooking Suggestions is populated |
| servingSuggestion | Free text field for serving suggestion. | R | |
| tradeItemContactInformation/contactTypeCode | The general category of the contact party for a trade item for example Purchasing. | R | |
| targetMarketCommunicationChannel/communicationChannel/communicationChannelCode | Means used to communicate with another party. | R | |
| targetMarketCommunicationChannel/communicationChannel/communicationValue | Number assigned to a specific means of communication. | R | |
| numberOfServingsPerPackage | The total number of servings contained in the package. | C | M if Food Product |
| isTradeItemMarkedAsRecyclable | Trade item has a recyclable indication marked on it. This may be a symbol from one of many regional agencies. | R | |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| 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). | M | |
| preparationState | Code specifying whether the nutrient information applies to the prepared or unprepared state of the product. | C | M if any Nutrients Stated |
| ingredientStatement | Information on the constituent ingredient makeup of the product specified as one string. | M | |
| foodAndBevIngredient/ingredientSequence | A text sequence (01, 02, 03, sub-ingredients 01.01, 01.02, 01.03...) indicating the ingredient order by content percentage of the product. (major ingredient = 01, second ingredient = 02, Second Ingredient Sub-Ingredient 02.01, Second Ingredient second Sub-Ingredient 02.02) etc. | R | |
| additiveName & additiveInformation/LevelofContainmentCode | Represents the name of any additive or genetic modification contained or not contained in the trade item.<br><br>Code indicating the level of presence of the additive. | R | |
| servingSize | Measurement Value specifying the serving size in which the information per nutrient has been stated. Example: Per 100 grams. | M | |

**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 *The "Big 8" allergens include: Peanuts, Tree Nuts, Eggs, Milk, Fish, Molluscs or Crustacean, Soy, and Wheat.  If a claim is not made for all eight allergens, the allergenRelevantDataProvided attribute must be published.

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| allergenRelevantDataProvided | Allergen Information is populated for those values which are relevant or required to be populated on the product label or label equivalent. All values not populated are not relevant or not required to be populated on the product label by local regulations. | R | If provided value is Yes product passes Allergens audit |
| allergenSpecificationAgency | Agency that controls the allergen definition. | R | |
| allergenSpecificationName | Free text field containing the name and version of the regulation or standard that contains the definition of the allergen. | R | |
| allergenTypeCode (AC) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | R | Crustacean |
| allergenTypeCode(AE) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | R | Eggs |
| allergenTypeCode(AF) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | R | Fish |
| allergenTypeCode(AM) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | R | Milk |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| allergenTypeCode(AS) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | **R** | Sesame |
| allergenTypeCode(AN) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | **R** | Tree Nuts |
| allergenTypeCode(UW) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | **R** | Wheat |
| allergenTypeCode(AY) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | **R** | Soy |
| allergenTypeCode(AP) & levelOfContainmen | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | **R** | Peanuts |
| allergenTypeCode (AU) & levelOfContainment | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | **R** | Sulphites |
| allergenTypeCode(NM) & levelOfContainmen | Code indicating the type of allergen. Code indicating the level of presence of the allergen. | **R** | Corn |

## Nutrient Type Code:

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

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(BIOT) & Measurement Precision & Nutrient Quantity Contained/uom | Is expressed relative to the serving size and base daily value intake. | **R** | Biotin |
| Nutrient Type Code(BIOT) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Biotin |
| Nutrient Type Code(CA) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Calcium |
| Nutrient Type Code(CA) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Calcium |
| Nutrient Type Code(ENER-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **M** | Calories |
| Nutrient Type Code(ENERPF) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **M** | Calories from Fat |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(CHO-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **M** | Carbohydrates |
| Nutrient Type Code(CHO-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Carbohydrates |
| Nutrient Type Code(CHOAVL) Measurement Precision & Nutrient Quantity Contained/uom | Is expressed relative to the serving size and base daily value intake. | **R** | Other Carbohydrates |
| Nutrient Type Code(CHOAVL) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Other Carbohydrates |
| Nutrient Type Code(CLD) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Chloride |
| Nutrient Type Code(CLD) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Chloride |
| Nutrient Type Code(CHOL-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Cholesterol |
| Nutrient Type Code(CHOL-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **M** | Cholesterol |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(CR) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Chromium |
| Nutrient Type Code(CR) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Chromium |
| Nutrient Type Code(CU) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Copper |
| Nutrient Type Code(CU) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Copper |
| Nutrient Type Code(FOL-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Folate |
| Nutrient Type Code(FOL-) & Percentage Of Daily Value Intake | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Folate |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(FIBINS) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Insoluble Fiber |
| Nutrient Type Code(FIBINS) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Insoluble Fiber |
| Nutrient Type Code(FE) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Iron |
| Nutrient Type Code(FE) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Iron |
| Nutrient Type Code(MG) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Magnesium |
| Nutrient Type Code(MG) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Magnesium |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(MN) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Manganese |
| Nutrient Type Code(MN) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Manganese |
| Nutrient Type Code(MO) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Molybdenum |
| Nutrient Type Code(MO) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Molybdenum |
| Nutrient Type Code(FAMS) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Monounsaturated Fat |
| Nutrient Type Code(FAMS) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Monounsaturated Fat |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(NIA) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Niacin |
| Nutrient Type Code(NIA) & Percentage Of Daily Value Intake | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Niacin |
| Nutrient Type Code(PANTAC) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Pantothenic |
| Nutrient Type Code(PANTAC) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Pantothenic |
| Nutrient Type Code(P) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Phosphorous |
| Nutrient Type Code(P) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Phosphorous |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(FAPU) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | R | Polyunsaturated Fat |
| Nutrient Type Code(FAPU) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | R | Polyunsaturated Fat |
| Nutrient Type Code(K) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | R | Potassium |
| Nutrient Type Code(K) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | R | Potassium |
| Nutrient Type Code(PRO-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | M | Protein |
| Nutrient Type Code(PRO-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | M | Protein |
| Nutrient Type Code(RIBF) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | R | RiboflavinB2 |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(RIBF) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | RiboflavinB2 |
| Nutrient Type Code(FASAT) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **M** | Saturated Fat |
| Nutrient Type Code(FASAT) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Saturated Fat |
| Nutrient Type Code(SE) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Selenium |
| Nutrient Type Code(SE) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Selenium |
| Nutrient Type Code(NA) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Sodium |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(NA) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **M** | Sodium |
| Nutrient Type Code(FIBSOL) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Soluble Fiber |
| Nutrient Type Code(FIBSOL) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Soluble Fiber |
| Nutrient Type Code(THIA) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Thiamin |
| Nutrient Type Code(THIA) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Thiamin |
| Nutrient Type Code(FIBTSW) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **M** | Total Dietary Fiber |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(FIBTSW) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | M | Total Dietary Fiber |
| Nutrient Type Code(FAT) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | M | Total Fat |
| Nutrient Type Code(FAT) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | M | Total Fat |
| Nutrient Type Code(FOL-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | R | Total Folate |
| Nutrient Type Code(SUGAR-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | M | Total Sugar |
| Nutrient Type Code(SUGAR-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | R | Total Sugar |
| Nutrient Type Code(FATRN) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | M | Trans fatty Acids |
| Nutrient Type Code(VITA-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | M | Vitamin A |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(VITA-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Vitamin A |
| Nutrient Type Code(VITB12) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Vitamin B12 |
| Nutrient Type Code(VITB12) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Vitamin B12 |
| Nutrient Type Code(VITB6-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Vitamin B6 |
| Nutrient Type Code(VITB6-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Vitamin B6 |
| Nutrient Type Code(VITC-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **M** | Vitamin C |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(VITC-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Vitamin C |
| Nutrient Type Code(VITD-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Vitamin D |
| Nutrient Type Code(VITD-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Vitamin D |
| Nutrient Type Code(VITE-) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Vitamin E |
| Nutrient Type Code(VITE-) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Vitamin E |
| Nutrient Type Code(VITK) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Vitamin K |

| GDSN Attribute Name | Attribute Definition | Attribute Type | Additional Comments |
|---|---|---|---|
| Nutrient Type Code(VITK) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Vitamin K |
| Nutrient Type Code(ZN) & Percentage Of Daily Value Intake | Is expressed relative to the serving size and base daily value intake. | **R** | Zinc |
| Nutrient Type Code(ZN) & Measurement Precision & Nutrient Quantity Contained/uom | Code indicating whether the specified nutrient content is exact or approximate. Measurement Value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size. | **R** | Zinc |
| nutritionalClaimTypeCode/nutritionalClaimNutrientElementCode | A code depicting the degree to which a trade item contains a specific nutrient or ingredient in relation to a health claim | **R** | Ex. nutritionalClaimDetail/ = FREE_FROM & nutritionalClaimDetail/nutritionalClaimNutrientElementCode = GLUTEN, only if isTradeItemGlutenFree=Yes. |
| nutrientRelevantDataProvided | Nutrient Information is populated for those values which are relevant or required to be populated on the product label or label equivalent. All values not populated are not relevant or not required to be populated on the product label by local regulations. | **R** | If provided value is Yes product passes Nutrients audit |

## 3.1 KEYIMPACT REQUESTED ATTRIBUTES

All attributes can also be found in the [KeyImpact Attribute Guide](#).