

GDSN CN Meal Pattern Credit Information – Supplier Guide

DRAFT – UPDATED 6/28/2022 – inTEAM Associates

Contents

General.....	1
Summary Notes.....	1
Serving Size and Nutrient Information	1
CN Label	2
Product Formulation Statement.....	2
Details: Child Nutrition Label Module.....	3
General Information	4
Meal Credit Information	4
CN Label Document	5
Details: Product Formulation Statement Module	5
General Information	5
Meal Credit Information	6
Fruit & Vegetables	7
Grains.....	7
PFS Document.....	8

General

GDSN supports storing Child Nutrition (CN) meal pattern credit information from either a **CN Label** or the **Product Formulation Statement**. The Nourish to Flourish (N2F) Database uses this information as a starting point, and then applies some additional processing to further adapt the data for use by K-12 operators. For example, the meal crediting GDSN standards do not distinguish juice from food items, so the N2F Database uses the GDSN Product Category (GPC) Code to make this distinction.

Summary Notes

Serving Size and Nutrient Information

Within GDSN, suppliers populate sets of nutrient information (calories, saturated fat, etc.) grouped by serving size. Often times, the serving size corresponding to the nutrient values is not the same as the serving size specified on the CN Label or Production Formulation Statement (PFS). For this reason, GDSN requires that the CN Label or PFS modules also contain a separate serving size value that corresponds to

the meal pattern credit values. When importing the CN meal pattern credit information from GDSN into the Nourish to Flourish Database, the meal pattern credit values are automatically scaled up or down to match the serving size as specified in the nutrient section. This way, when a K-12 menu planner adopts the item from GDSN into their system, the nutrients and meal pattern credits match and can be scaled together when the menu planner puts them in a recipe or on a menu.

CN Label

For products which have a CN Label, the following information can be stored to the **childNutritionLabel** module of GDSN.

- CN Label Flag
- CN Label Code
- CN Label Statement
- Expiration Date
- Meal Credit(s): There may be one or more Meal Credit records for each GTIN. The information below apply to each Meal Credit record.
 - CN Component Type: Select one of the pre-configured options as follows:
 - Meat/Meat Alternate: MEAT_OR_MEAT_ALTERNATIVE
 - Whole Grains, All Types: GRAINS (or BREAD_OR_BREAD_ALTERNATIVE)
 - Fruit or Fruit Juice (see Additional Notes): FRUIT
 - Vegetable and Vegetable Juice-Dark Green (see Additional Notes): DARK_GREEN_VEGETABLE
 - Vegetable and Vegetable Juice-Red/Orange (see Additional Notes): RED_ORANGE_VEGETABLE
 - Vegetable-Beans/Peas: BEANS_PEA_LEGUMES
 - Vegetable-Starchy: STARCHY_VEGETABLE
 - Vegetable-Other: OTHER_VEGETABLE
 - Milk, All Types (see Additional Notes): FLUID_MILK
 - Creditable Value
 - Serving Size
- CN Label Document:
 - File Format: Preferred values are JPG, JPEG, or PNG. Alternate option is PDF.
 - File Type Code: CHILD_NUTRITION_LABEL

Additional Notes

- Fruit & Vegetable Juice: When an item is assigned a fruit or vegetable type that could be a Juice, K-12 DEX uses the GPC Code to determine whether it's a Juice.
- Types of Milk (% Fat, Flavors): When an item is assigned as FLUID_MILK type, K-12 DEX uses the following the GPC Code and Item Name to determine the specific Meal Component type.

Product Formulation Statement

For products that do not have a CN Label registered with the USDA but instead uses a Product Formulation Statement to define their meal pattern credits, suppliers can store that information in the **productFormulationStatement** module of GDSN. Additional details from the PFS can be stored to the GDSN record, but only the following information is minimally required for the K-12 Data Exchange.

- Regulatory Body Code
- Product Formulation Statement
- Serving Size: Note that, unlike the CN Label module in which each Component Type can have a distinct Serving Size, the PFS module uses the same serving size for all Component Types.
- Meal Credit(s): There may be one or more Meal Credit records for each GTIN. The information below applies to each Meal Credit record, and each unique Component Type should be setup as a separate “creditableIngredient” record. Ingredients from the PFS form that share the same Component Type should be listed within the same creditableIngredient records so they’re totaled correctly.
 - CN Component Type: One of the pre-configured options as follows:
 - Meat/Meat Alternate: MEAT_OR_MEAT_ALTERNATIVE or ALTERNATIVE_PROTEIN_PRODUCT
 - Whole Grains, All: GRAIN_OR_GRAIN_ALTERNATIVE with doesTradeItemMeetWholeGrainRichCriteria = TRUE
 - Grains, All Types: GRAIN_OR_GRAIN_ALTERNATIVE with doesTradeItemMeetWholeGrainRichCriteria = FALSE
 - Fruit or Fruit Juice (see Additional Notes): FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE with creditableVegetable/vegetableSubgroupCode NOT SPECIFIED
 - Vegetable and Vegetable Juice-Dark Green (see Additional Notes): FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE with creditableVegetable/vegetableSubgroupCode = DARK_GREEN
 - Vegetable and Vegetable Juice-Red/Orange (see Additional Notes): FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE with creditableVegetable/vegetableSubgroupCode = RED_ORANGE
 - Vegetable-Beans/Peas: FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE with creditableVegetable/vegetableSubgroupCode = BEANS_PEAES_LEGUMES
 - Vegetable-Starchy: FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE with creditableVegetable/vegetableSubgroupCode = STARCHY
 - Vegetable-Other: FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE with creditableVegetable/vegetableSubgroupCode = OTHER
 - Creditable Value
- Product Formulation Statement Document

Additional Notes

- Fruit & Vegetable Juice: When an item is assigned a fruit or vegetable type that could be a Juice, K-12 DEX uses the GPC Code to determine whether it’s a Juice.

Details: Child Nutrition Label Module

This section outlines, for each of the values above, the GDSN XML Name of the data field where the value is located.

General Information

There is one record in these sections per product.

GDSN Path: catalogueItemNotification/catalogueItem/tradeItem/avpList/

Name	GDSN XML Field Name	Definition	Data Type
Does Trade Item Carry USDA Child Nutrition Label?	doesTradeItemCarryUSDAChildNutritionLabel	An indication that the trade item carries a USDA approved Child Nutrition Label. The USDA Child Nutrition (CN) Labeling Program provides food manufacturers the option to include a standardized food crediting statement on their product label. Labels must be approved by USDA, FNS prior to use and manufacturers must have quality control procedures and inspection oversight that meet the FNS requirements. Products produced in accordance with the CN Labeling Program are generally purchased by foodservice providers for FNS meal programs. http://www.fns.usda.gov/cnd/cnlabeling/default.htm	VV/NonBinaryLogicCodes

GDSN Path: childNutritionInformationModule/childNutritionLabel/

Name	GDSN XML Field Name	Definition	Data Type
CN Label Code	childNutritionProductIdentification	A child nutrition identification number of the child nutrition statement or label as provided by or through the authority of the child nutrition product identification agency.	String (1-30)
CN Label Statement	childNutritionLabelStatement	The text of the Child Nutrition Label as specified by the child nutrition product identification agency.	String (1-1000)
Expiration Date	childNutritionExpirationDateTime	The date upon which the child nutrition statement or label expires.	DateTime

Meal Credit Information

There is one “childNutritionQualifier” record for every assigned Meal Component Type within the childNutritionLabel record. For example, if an item has both Grain and Meat/Meat Alternate credits, then it would have two childNutritionQualifier records.

GDSN Path: childNutritionInformationModule/childNutritionLabel/childNutritionQualifier/

Name	GDSN XML Field Name	Definition	Data Type
CN Component Type	childNutritionQualifierCode	A qualifier to specify the type of equivalent measurement that is applicable to the item as specified in the child nutrition statement or label. Example: FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE.	VV/ChildNutritionQualifierCode
Creditable Value	childNutritionValue	Actual value for the child nutrition qualifier as specified in the child nutrition statement or label. For example, if a 4.5 ounce serving provides 1/8 cup red-orange vegetable, the childNutritionValue is 0.125 cup. Note that this will have both a Value and Unit of Measure.	Ufloat (38,15)
Serving Size	childNutritionQualifiedValue	Reference or qualified value for the child nutrition value as specified in the child nutrition statement or label. For example, if a 4.5 ounce serving provides 1/8 cup red-orange vegetable, the childNutritionQualifiedValue is 4.5	Ufloat (38,15)

		ounces. Note that this will have both a Value and Unit of Measure.	
--	--	--	--

Valid Values/ChildNutritionQualifierCode

Code	Description	Notes
BREAD_OR_BREAD_ALTERNATIVE	Bread or Bread Alternative	Not preferred
FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE	Fruit Vegetable or Fruit Vegetable Alternative	Ignored
BEANS_PEAS_LEGUMES	Beans/Peas/Legumes	Vegetable-Beans/Peas
DARK_GREEN_VEGETABLE	Dark Green Vegetable	Vegetable or Vegetable Juice-Dark Green
FLUID_MILK	Fluid Milk	Milk, all types
FRUIT	Fruit	Fruit or Fruit Juice
GRAINS	Grains	Grains, all types
OTHER_VEGETABLE	Other Vegetable	Vegetable-Other
RED_ORANGE_VEGETABLE	Red/Orange Vegetable	Vegetable or Vegetable Juice-Red/Orange
STARCHY_VEGETABLE	Starchy Vegetable	Vegetable-Starchy
MEAT_OR_MEAT_ALTERNATIVE	Meat or Meat Alternative	Meat/Meat Alternative

CN Label Document

A digital copy of the actual CN Label can be uploaded within this module. Preferred formats are JPG or PNG, although PDF is acceptable.

GDSN Path: childNutritionInformationModule/childNutritionLabel/childNutritionLabelDocument/

Name	GDSN XML Field Name	Definition	Data Type
Referenced File Type Code	referencedFileTypeCode	The type of file that is being referenced for example Safety Data Sheet or Product Image.	VV/ReferencedFileTypeCode
Is Primary File	IsPrimaryFile	Indicates whether a URL for the specified referenced file type links to the primary file that should be used.	VV/NonBinaryLogics
File Format Name	fileFormatName	The name of the file format. Examples: PDF; JPEG; BMP	String (1-35)

Valid Values/ReferencedFileTypeCode

Code	Description	Notes
CHILD_NUTRITION_LABEL	Child Nutrition Label	Must be set to this value for correct processing

Details: Product Formulation Statement Module

This section outlines, for each of the values above, the GDSN XML Name of the data field where the value is located.

General Information

There is one record in this section per product.

GDSN Path: productFormulationStatementModule/productFormulationStatement/

Name	GDSN XML Field Name	Definition	Data Type
Regulatory Body Code	productFormulationStatementRegulatoryBodyCode	The agency within the target market which is responsible for the requirements, rules and regulations governing the product formulation statement calculations, format and contents.	vv/Nutrition AgencyCode
Product Formulation Statement	productFormulationStatementDescription	A textual statement listed on the Product Formulation Statement as specified in the requirements, rules and regulations set forth by the applicable Product Formulation Statement Regulatory Body. The name and position of the company official who has signed the actual statement.	String (1-5000)
Serving Size	totalPortionWeightAsPurchased	The total portion weight of the trade item as purchased. This value(s) is as noted on the Product Formulation Statement and expressed in at least one measurement.	Ufloat (38,15)

Valid Values/NutritionAgencyCode

Code	Description	Notes
1	USDA Food and Nutrition Service	Only option available

Meal Credit Information

There is one “creditableIngredient” record in this section for every assigned Meal Component Type. For example, if an item credits for both Vegetable-Starchy and Vegetable-Dark Green, then it would have two creditableIngredient records.

NOTE: Even though the actual PFS document and the GDSN PFS module accepts multiple Ingredient records (“creditableIngredientDetails”) within a single creditableIngredient record, only list multiple Ingredient records within the same creditableIngredient record if they all share the same Meal Component Type. This is because the meal credit value for the creditableIngredient record is the sum of all Ingredients. If there are multiple Ingredients and they are from different Vegetable Subtypes, then the total credit value will not accurately be split across the different SubTypes for use by the K-12 operator.

GDSN Path: productFormulationStatement/creditableIngredient/

Name	GDSN XML Field Name	Definition	Data Type
Creditable Ingredient Type Code	creditableIngredientTypeCode	A qualifier to specify a type of creditable ingredient applicable to the trade item as noted on the Product Formulation Statement and specified by the requirements, rules and regulations set forth by the applicable Product Formulation Statement Regulatory Body.	VV/CreditableIngredientTypeCode
Total Creditable Ingredient Type Amount	totalCreditableIngredientTypeAmount	The sum total creditable amount of all the creditable ingredient type(s) applicable for the item as calculated using the requirements, rules and regulations set forth by the applicable Product Formulation Statement Regulatory Body. Per US regulations total creditable amount must be rounded down to the nearest quarter (0.25) ounce equivalent in the US target market.	ufloat (38,15)

Valid Values/CreditableIngredientTypeCode

Code	Description	Notes
ALTERNATIVE_PROTEIN_PRODUCT	Alternative Protein Product	
MEAT_OR_MEAT_ALTERNATIVE	Meat or Meat Alternative	
GRAIN_OR_GRAIN_ALTERNATIVE	Grain or Grain Alternative	
FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE	Fruit Vegetable or Fruit Vegetable Alternative	Vegetables require additional information to properly credit

Fruit & Vegetables

When creditableIngredientTypeCode = FRUIT_VEGETABLE_OR_FRUIT_VEGETABLE_ALTERNATIVE

The actual meal component type is determined based on the specified Subgroup.

- For Fruit, leave this blank.
- For Vegetables, specify the appropriate Subgroup code.

GDSN Path:

productFormulationStatement/creditableIngredient/creditableIngredientDetails/creditableVegetable/vegetableSubgroupCode

Name	GDSN XML Field Name	Definition	Data Type
Vegetable Subgroup Code	vegetableSubgroupCode	A qualifier to specify the type of creditable vegetable ingredient subgroup applicable to the item as specified on the Product Formulation Statement and defined by the requirements, rules and regulations set forth by the applicable product formulation statement regulatory body.	vv/VegetableSubgroupCode
Total Vegetable Subgroup Amount	totalVegetableSubgroupAmount	The creditable amount of the vegetable subgroup in the item. NOTE: This field captures the raw, non-rounded value in “quarter cups” from the PFS document and is not used in K-12 DEX as the units are .	uFloat (38,15)

Valid Values/VegetableSubgroupCode

NOTE: For Fruit, leave this blank.

Code	Description	Notes
BEANS_PEAS_LEGUMES	Beans Peas Legumes	
DARK_GREEN	Dark Green	
RED_ORANGE	Red Orange	
STARCHY	Starchy	
OTHER	Other	

Grains

When creditableIngredientTypeCode = GRAIN_OR_GRAIN_ALTERNATIVE

Grain vs. Whole Grain crediting is determined based on specified value from the grain section.

GDSN Path:

productFormulationStatement/creditableIngredient/creditableIngredientDetails/creditableGrainsInformation/

Name	GDSN XML Field Name	Definition	Data Type
Does Trade Item Meet Whole Grain Rich Criteria	doesTradeItemMeetWholeGrainRichCriteria	An indication the trade item meets the whole grain-rich criteria as defined and regulated by the applicable Product Formulation Statement Regulatory Body.	VV/NonBinaryLogicCodes

PFS Document

A digital copy of the actual PFS can be uploaded in this module. Preferred formats are PDF, although JPG or PNG are acceptable.

GDSN Path:

productFormulationStatementModule/productFormulationStatement/productFormulationStatementDocument/

Name	GDSN XML Field Name	Definition	Data Type
Referenced File Type Code	referencedFileTypeCode	The type of file that is being referenced for example Safety Data Sheet or Product Image.	VV/ReferencedFileTypeCode
Is Primary File	IsPrimaryFile	Indicates whether a URL for the specified referenced file type links to the primary file that should be used.	VV/NonBinaryLogicCodes
File Format Name	fileFormatName	The name of the file format. Examples: PDF; JPEG; BMP	String (1-35)

Valid Values/ReferencedFileTypeCode

Code	Description	Notes
PRODUCT_FORMULATION_STATEMENT	Product Formulation Statement	Must be set to this value for correct processing