



CHALLENGE DAIRY PRODUCTS, INC.
Data Synchronization Implementation Guide

Version #1



Data Synchronization Implementation Guide

REVISION HISTORY

Date	Ver #	Description of Change	Author



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1 STEPS TO BEGIN SYNCING YOUR DATA WITH CHALLENGE DAIRY PRODUCTS

1. Load accurate item information into your GDSN certified data pool provider.
2. Review the attribute recommendations in Section 3 of this guide
3. Complete the required information in the Challenge Dairy Trading Partner Form located on the [Challenge Dairy Landing Page](#).
4. Publish
 - a. Publish item data upon receiving a Subscription from Challenge Dairy. Please note that Challenge Dairy will be subscribing by GLN.
 - b. **Challenge Dairy GLN to publish to: 0047200000003 – “CHALLENGE DAIRY PRODUCTS”**
 - c. Items for US Target Markets.
 - d. Publish all Product Types.
 - e. Publish item data based on the GDSN Publication Type Definitions
 - i. **New:** Publish as new when the product is being submitted to Challenge Dairy for the first time.
 - ii. **Initial Load:** Use Initial Load when publishing “Existing Products”. These are products that have already been synchronized with Challenge Dairy.
5. Contacts
 - a. Contact your data pool for assistance using your current data loading tools.
 - b. Synchronization Assistance Contact: businessdevelopment@1worldsync.com
Challenge Dairy Relations Email Contact: Martha.Sayre@challengedairy.com or Jordan.Collins@challengedairy.com

2 CIC RESPONSES

Feedback will be provided on publications using the following Catalogue Item Confirmation (CIC) responses.

1. Suppliers can expect to receive one of the following CICs if the GDSN definition pertains to the published data.
 - a. **REVIEW:** Challenge Dairy requests the data supplier correct their data, as it is discrepant based on the attributes outlined in this Implementation Guide.
 - b. **REJECT:** Your data will no longer be synchronized with Challenge Dairy. A reason for this CIC will be provided.

*Note: Challenge Dairy will not be sending the CIC of **Received** or **Synchronized**.
2. Continue to send changes and corrections for all items via the GDSN process.



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3 CHALLENGE DAIRY ATTRIBUTE RECOMMENDATIONS

In addition to the GDSN mandatory attributes, Challenge Dairy recommends providing the attributes in the tables below.

Identification Attribute Table

Name	GDSN XML Name	Definition	Recommended	Optional
Product Type	CatalogueItemNotification/CatalogueItem/tradeItem/tradeItemUnitDescriptorCode	Describes the hierarchical level of the trade item. TradeItemUnitIndicator is mandatory. Examples: "CASE", "PALLET"	X	
IP Name	nameOfInformationProvider	Name of the party who provides the trade item information to Transora Item Management.	X	
Alternate Item Identification Agency (+ Number)	CatalogueItemNotification/CatalogueItem/tradeItem/additionalTradeItemIdentificationValue	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		X
Brand Name	tradeItemDescriptionModule/tradeItemDescriptionInformation/brandNameInformation/brandName	The recognizable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer.	X	
Brand Owner GLN	CatalogueItemNotification/CatalogueItem/tradeItem/brandOwner/gln	The Global Location Number used to identify the organization that owns the brand.	X	
Brand Owner Name	CatalogueItemNotification/CatalogueItem/tradeItem/brandOwner/partyName	Name of the party who owns the brand of the trade item.	X	
Manufacturer GLN	CatalogueItemNotification/CatalogueItem/tradeItem/manufacturer/gln	The Global Location Number used to identify the organization that manufactures this trade item.		X
Manufacturer Name	CatalogueItemNotification/CatalogueItem/tradeItem/manufacturer/partyName	The name of the manufacturer of this trade item.		X
Ordering Unit Indicator	CatalogueItemNotification/CatalogueItem/tradeItem/isTradeItemAnOrderableUnit	Yes indicates that this trade item is the packaging level where the supplier will accept orders from reseller customers. This may be different from what the information provider identifies as a despatch unit.		X



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Origin / Description / Marketing Attribute Table

Name	GDSN XML Name	Definition	Recommended	Optional
Short Description	tradeItemDescriptionModule/tradeItemDescriptionInformation/descriptionShort	A short textual description associated with the product. This description can be used on the cash register receipt. This is the first line of the description.	X	
Product Description	tradeItemDescriptionModule/tradeItemDescriptionInformation/tradeItemDescription	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.	X	
Marketing Message	tradeItemMarketingMessage	Marketing message associated to the Trade item.	X	
Image(s) -“Hero Image” / Use Image -Product / Packaging			X	
Image Type Information (Referenced File Type Code)	certificationModuleInformation/certificationInformation/certification/referencedFileInformation/referencedFileTypeCode	The type of file that is being referenced for example Safety Data Sheet or Product Image.	X	
Image URI (File Effective Start Date)	certificationModuleInformation/certificationInformation/certification/referencedFileInformation/uniformResourceIdentifier	Simple text string that refers to a resource on the Internet, URLs may refer to documents, resources, people, etc. This attribute is optional.		X
Country Of Origin Statement	placeOfItemActivityModule/placeOfProductActivity/countryOfOriginStatement	A description of the geographic area the item may have originated from or has been processed.	X	
Country Of Origin	placeOfItemActivityModule/placeOfProductActivity/countryOfOrigin/countryCode	The country code (codes) 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.	X	
Country Subdivision Code	placeOfItemActivityModule/placeOfProductActivity/countryOfOrigin/countrySubdivisionCode	Code specifying a country subdivision The Country Of Origin Subdivision Code is the secondary code of the Country Of Origin and must be a subdivision of a Country Of Origin Country Code. The Country Of Origin Subdivision Code describes the "geopolitical subdivision of a country" where the trade item is produced for sale, as determined by the information provider. For example, "State" in the US, "Land" in Germany, "Region" in France, or	X	



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		"Province" in Canada. Not all countries have subdivisions.		
Product Activity Region Description	foodAndBeverageIngredientModule/foodAndBeverageIngredient/ingredientPlaceOfActivity/productActivityDetails/productActivityRegionDescription	The region in which a processing or other activity has been performed for example processing, bottling, manufacturing. Allows for the representation of the same value in different languages.		X

Packaging Attribute Table

Name	GDSN XML Name	Definition	Recommended	Optional
Ti / Non GTIN Pallet Ti	tradeItemHierarchyModule/tradeItemHierarchy/quantityOfTradeItemsPerPalletLayer	The number of trade items contained on a single layer of a pallet. 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.	X	
Hi / Non GTIN Pallet Hi	tradeItemHierarchyModule/tradeItemHierarchy/quantityOfLayersPerPallet	The number of layers that a pallet contains. Only used if the pallet has no GTIN. It indicates the number of layers that a pallet contains, according to supplier or retailer preferences.	X	
Depth (+UOM)	packagingInformationModule/packaging/dimension/depth	The depth of packaging as measured according to the GS1 Package Measurement Rules.	X	
Height (+UOM)	tradeItemMeasurementsModule/tradeItemMeasurements/height	The height of the unit load, as measured according to the GS1 Package Measurement Rules, including the shipping platform unless it is excluded according to the Pallet Type Code chosen.	X	
Width (+UOM)	packagingInformationModule/packaging/dimension/width	The width of packaging as measured according to the GS1 Package Measurement Rules.	X	
Volume (+UOM)	tradeItemMeasurementsModule/tradeItemMeasurements/inBoxCubeDimension	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. This only applies to In-box dimensions. Level of Hierarchy applied to-All.		X
Gross Weight (+UOM)	variableTradeItemInformationModule/variableTradeItemInformation/variableWeightAllowableDeviationPercentage	Indication of the percentage value that the actual weight of the trade item may differ from the average or estimated weight given. For example, Roast beef off the bone 3.5 kg, Gross weight	X	



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		3500 Grams, Range = 14 %. This means that this item may be produced with weight values ranging from 3.010 kg to 3.990 kg.		
Net Weight (+UOM)	tradeItemMeasurementsModule/tradeItemMeasurements/tradeItemWeight/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.	X	
Net Content (+UOM)	tradeItemMeasurementsModule/tradeItemMeasurements/netContent	Only required for the consumer unit or the EACH. The amount of the trade item contained by a package, usually as claimed on the label. Example: Mineral Water 750ml - net content = 750 ML; 20 count pack of diapers, net content = 20 1N (Count); (GUI) or 'true' (Batch)	X	
Non GTIN Pallet Gross Weight (+UOM)	unitLoadGrossWeight	This field is the overall weight of the items on the shipping platform, plus the weight of the shipping platform itself.	X	
Non GTIN Pallet Height (+UOM)	palletHeight	This field is the overall height of the items on the shipping platform, plus the height of the shipping platform itself.	X	
Additional Packaging Marked Label Accreditation	additionalPackagingMarkedLabelAccreditation	A text description of a label that the trade item received recognition, endorsement, certification by following guidelines by the label issuing agency.		X
Package Marks Diet Allergen	healthWellnessPackagingMarkingModule/healthWellnessPackagingMarking/packagingMarkedDietAllergenCode	Indication of which dietary or allergen marks that are on the package.	X	
Package Marks Free From	healthWellnessPackagingMarkingModule/healthWellnessPackagingMarking/packagingMarkedFreeFromCode	Indication of the food ingredients that the package is marked free from.	X	
Packaging Type Code	packaginginformationModule/packaging/packagingTypeCode	The code identifying the type of package used as a container of the trade item.	X	
Platform Type Code	packaginginformationModule/packaging/platformTypeCode	Indicates whether the described despatch unit is delivered on a pallet/platform and on which type of platform. If the despatch unit is delivered on a platform, the platform type must be given here. The range of the platform types/codes is listed in code sets.	X	
Packaging Material Type Code	packaginginformationModule/packaging/packagingPackagingMaterial/compositeMaterialDetail/packagingMaterialTypeCode	The materials used for the packaging of the trade item for example glass or plastic.		X
Packaging Recycling Process Type Code	packaginginformationModule/packaging/packagingRecyclingProcessTypeCode	The process the packaging could undertake for recyclable & sustainability programs.		X



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Packaging Shape Code	packaginginformationModule/packaging/packagingShapeCode	A code depicting the shape of a package for example cone.		X
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Shipping / Storage Attribute Table

Name	GDSN XML Name	Definition	Recommended	Optional
Minimum Shipping	catalogueItemNotification/catalogueItem/tradeItem/avList/minimumShippingQuantity	The minimum total quantity of this trade item that can be shipped. It is used only if different from the minimum order quantity.		X
Minimum Product Lifespan From Arrival	tradeItemLifespanModule/tradeItemLifespan/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.		X
Minimum Trade Item Lifespan From Production	tradeItemLifespanModule/tradeItemLifespan/minimumTradeItemLifespanFromTimeOfProduction	The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production.		X
Temperature Qualifier Code		<i>DELIVERY_TO_DISTRIBUTION_CENTRESTORAGE_HANDLING</i>	X	
Maximum Temperature (+UOM)	tradeItemTemperatureInformationModule/tradeItemTemperatureInformation/maximumTemperature	The maximum temperature that a trade item can be held below defined by the manufacturer without affecting product safety or quality.	X	
Minimum Temperature (+UOM)	tradeItemTemperatureInformationModule/tradeItemTemperatureInformation/minimumTemperature	The minimum temperature that a trade item can be held below defined by the manufacturer without affecting product safety or quality.	X	

Food & Beverage / Nutrition / Allergen Attribute Table

Name	GDSN XML Name	Definition	Recommended	Optional
Allergen Specification Agency	allergenInformationModule/allergenRelatedInformation/allergenSpecificationAgency	Agency that controls the allergen definition.		X



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Allergen Specification Name	allergenInformationModule/allergenRelatedInformation/allergenSpecificationName	Free text field containing the name and version of the regulation or standard that contains the definition of the allergen.		X
Allergen type Code	allergenRelatedInformation/allergen/allergenTypeCode	Code indicating the type of allergen.	X	
Level of Containment	allergenInformationModule/allergenRelatedInformation/allergen/LevelofContainmentCode	Code indicating the level of presence of the allergen.	X	
Allergen Statement	allergenInformationModule/allergenRelatedInformation/allergenStatement	Textual description of the presence or absence of allergens as governed by local rules and regulations, specified as one string.	X	
Nutritional Claim Type Code	nutritionalClaimCode	A code depicting the degree to which a trade item contains a specific nutrient or ingredient in relation to a health claim		X
Nutritional Claim Element Code	nutritionalInformationModule/nutritionalClaimDetail/nutritionalClaimNutrientElementCode	The type of nutrient, ingredient, vitamins and minerals that the nutritional claim is in reference to		X
Nutritional Claim	nutritionalInformationModule/nutritionalClaim/nutritionalClaim	Free text field for any additional nutritional claims.	X	
Ingredient Statement	foodAndBeverageIngredientModule/ingredientStatement	Information on the constituent ingredient make up of the product specified as one string.	X	
Ingredient Name	foodAndBeverageIngredientModule/foodAndBeverageIngredient/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.	X	
Ingredient Purpose	foodAndBeverageIngredientModule/foodAndBeverageIngredient/ingredientPurpose	A description of the primary purpose that an ingredient serves for example a colouring in the case of annatto in a cheese rind.	X	
Ingredient Sequence	foodAndBeverageIngredientModule/foodAndBeverageIngredient/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.	X	
Additive Name	foodAndBeverageIngredientModule/additiveInformation/additiveName	Represents the name of any additive or genetic modification contained or not contained in the trade item.		X



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Additive Level of Containment	foodAndBeverageIngredientModule/additiveInformation/LevelofContainmentCode	Code indicating the level of presence of the additive.		X
Preparation Instructions	foodAndBeveragePreparationServingModule/preparationServing/preparationInstructions	Textual instruction on how to prepare the product before serving.	X	
Preparation Type	foodAndBeveragePreparationServingModule/preparationServing/preparationTypeCode	A code specifying the technique used to make the product ready for consumption. For example: baking, boiling.	X	
Serving Suggestions	foodAndBeveragePreparationServingModule/preparationServing/servingSuggestion	Free text field for serving suggestion.	X	
Consumer Usage Instructions	consumerInstructionsModule/consumerInstructions/consumerUsageInstructions	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 a the how the consumer is to use the product, This does not include storage, food preparations, and drug dosage and preparation instructions.	X	
Daily Value Intake Reference	nutritionalInformationModule/nutritionHeader/dailyValueIntakeReference	Free text field specifying the daily value intake base for on which the daily value intake per nutrient has been based. Example: "Based on a 2000 calorie diet.	X	
Nutrient Basis Quantity Type Code	nutritionalInformationModule/nutritionHeader/nutrientBasisQuantityTypeCode	The type of quantity contained for example measurement, serving size, or container.	X	
Serving Size	nutritionalInformationModule/nutritionHeader/servingSize	Measurement Value specifying the serving size in which the information per nutrient has been stated. Example: Per 100 grams.	X	
Serving Size Description	nutritionalInformationModule/nutritionHeader/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).	X	
Nutrient Type Code	nutritionalInformationModule/nutritionHeader/nutrientDetail/nutrientTypeCode	Code 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.	X	
Percentage of Daily Value Intake	nutritionalInformationModule/nutritionHeader/nutrientDetail/dailyValueIntakePercent	The percentage of the recommended daily intake of a nutrient as recommended by authorities of the target market. Is expressed relative to the serving size and base daily value	X	



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		intake.		
Measurement Precision	nutritionalInformationModule/nutritionHeader/nutrientDetail/measurementPrecisionCode	Code indicating whether the specified nutrient content is exact or approximate.	X	
Nutrient Quantity Contained (+UOM)	nutritionalInformationModule/nutritionHeader/nutrientDetail/quantityContained	Measurement value of the physicochemical characteristic.	X	
Number Of Servings Per Package	foodAndBeveragePreparationServingModule/servingQuantityInformation/numberOfServingsPerPackage	The total number of servings contained in the package.	X	
Measurement Precision Of Number Of Servings Per Package	foodAndBeveragePreparationServingModule/servingQuantityInformation/numberOfServingsPerPackageMeasurementPrecisionCode	Code indicating whether the number of servings per package is exact or approximate	X	
Preparation State	nutritionalInformationModule/nutritionHeader/preparationStateCode	Code specifying whether the nutrient information applies to the prepared or unprepared state of the product.	X	

Diet Type / Certification Attribute Table

Name	GDSN XML Name	Definition	Recommended	Optional
Certification Organisation Identifier	dietInformationModule/dietInformation/dietTypeInformation/dietCertification/certificationOrganisationIdentifier	The identification of the organization that issued the certificate number confirming that the Trade Item has gone through certification.	X	
Certification Agency	dietInformationModule/dietInformation/dietTypeInformation/dietCertification/certificationAgency	Name of the organization issuing the certification standard or other requirement being met. Free text field. Example: European Union.	X	
Diet Type Code (Kosher / Halal)	dietInformationModule/dietInformation/dietTypeInformation/dietTypeCode	Code indicating the diet for, which the product is suitable.	X	
Diet Type Subcode	dietInformationModule/dietInformation/dietTypeInformation/dietTypeSubcode	Indicates a set of agreements or a certificate name that guarantees the product is permitted in a particular diet.	X	
Does Ingredient Contain Gluten?	N/A	Does the Ingredient have proteins that naturally occur in a significant cereal to which some persons are intolerant (gluten)?	X	
Packaging Marked Label Accreditation Code	packagingMarkingModule/packagingMarking/packagingMarkedLabelAccreditationCode	A marking that the trade item received recognition, endorsement, certification by	X	



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following guidelines by the label issuing agency.

Milk & Cheese Attribute Table

Name	GDSN XML Name	Definition	Recommended	Optional
Fat in Milk Content	fatInMilkContent	The percentage of fat contained in milk content of the product.		X
Surface of Cheese at End of Ripening	dairyFishMeatPoultryItemModule/dairyFishMeatPoultryInformation/surfaceOfCheeseAtEndOfRipeningCode	The representation of whether or not a cheese contains a rind at the end of the maturing process. A Rind is the outside shell of cheese that forms during the cheese making process.		X
Cheese Colouring	catalogueItemNotification/catalogueItem/tradeItem/avpList/cheeseColouring	Indication whether and if yes which colourings were added to the cheese or cheese products.		X
Cheese Maturation Period Description	dairyFishMeatPoultryItemModule/dairyFishMeatPoultryInformation/cheeseMaturationPeriodDescription	A descriptive way to specify a date range as some cheeses are matured over a period of time, but not an exact period. For example 3 to 4 weeks, over 1 year etc. The term maturation is also know in other markets as Aged.		X
Cheese Maturation Container Process Type	dairyFishMeatPoultryItemModule/dairyFishMeatPoultryInformation/cheeseMaturationProcessContainerTypeCode	The type of container that the process of maturation cheese occurs in. The container directly influences the flavor of the cheese. The term maturation is also know in other markets as Aged. Examples FOIL, MOULD, OTHER, etc. This should be repeatable as this could be a combination of types		X
Cheese Salt Content Percentage	catalogueItemNotification/catalogueItem/tradeItem/avpList/cheeseSaltContentPercentage	The percentage of salt contained in cheese.		X
Cheese Type Of Salt	catalogueItemNotification/catalogueItem/tradeItem/avpList/cheeseTypeOfSalt	Type of salt used in cheese		X