

---

# ECCnet Registry

## Coming Enhancements

GS1 Canada is continually enhancing ECCnet Registry based on community business requirements, Global Standards Alignment and feedback from our users. For more detailed information, please see the *Delta Guide* on the [ECCnet Registry Technical Documents page](#).

### At a Glance

To view more details, click one of the links below.

- Optional Attributes Becoming Mandatory
  - When implemented, these changes will be non-backwards-compatible.*
  - For Foodservice: [Weight Density](#)
  - For Pharmaceutical: [Hazard Rating System \(WHMIS\) – Class Code](#)
- Foodservice: Changes that support the 2017 NFT and Ingredients List Food Labeling Regulation
  - [Total Sugar %DV](#)
  - [Vitamin A](#)
  - [Vitamin C](#)
  - [Iron](#)
  - [Calcium](#)
  - [Potassium](#)
- Optional Attributes Added
  - [Consumer Product Variant Reason Code](#)
  - [Milk Categories](#)
  - [Ocean Wise](#)
  - [Packaging Recycling Process](#)
  - [Transportation of Dangerous Goods](#)
  - [Vegetarian](#)
- [Global Standards Alignment](#)

## Optional Attributes Becoming Mandatory

To ensure continuous alignment with GS1 global standards, you should be preparing for these attributes becoming mandatory with the release of ECCnet Registry 11.8. *When implemented, these changes will be non-backwards-compatible.*

### Weight Density

For any recipe/menu, Foodservice distributors/operators use primarily weight to calculate the nutrition information.

The calculation size provided by data suppliers is sometimes provided in volume.

Foodservice distributors/operators need to know the weight density to convert the provided calculation size from volume to weight. For example, if the weight is required for 200 L of product (volume) and the Weight Density is 0.527, you can calculate as follows:  $200 \times 0.527 = 105.4 \text{ kg}$ .

Attribute Name	Comment
Weight Density	For Foodservice products at Case level, this attribute will be mandatory if Calculation Size UOM is specified in Volume (Litre or Millilitre)

Impact	Description
Data providers using ProSYNC interface and File Upload spreadsheet	Prepare internal processes and systems for these attributes to become mandatory where applicable.
Data providers using EDI	Weight density is not mapped from EDI 4010. If you're using EDI, ensure to top up your data using the File Upload spreadsheet
Data providers using GDSN to send to ECCnet data recipients	Prepare internal processes and systems for these attributes to become mandatory where applicable. Use <code>physiochemicalCharacteristicValue</code> under module <code>physioChemicalProperties/physioChemicalCharacteristicCode</code> and set <code>physiochemicalCharacteristicCode</code> to <code>WEIGHT_DENSITY</code> acceptable <code>uom=23</code> (Gram per Cubic Centimeter)
Data providers sending to GDSN data recipients	No impact
Data recipients	To receive ECCnet product data from your business partners, you must ensure that your internal processes and systems can receive data with the mandatory attributes where applicable.

## Hazard Rating System (WHMIS) - Class Code

Pharmaceutical distributors need to know the WHMIS classification for the compounding chemicals and bases, and this is to ensure the workplace safety for handling, transportation and storage of these chemicals.

Attribute Name	Comment
Hazard Rating System (WHMIS) - Class Code	At the Consumer or Base level for 2 Category Classes: <ol style="list-style-type: none"> <li>1. Compounding "Chemicals"</li> <li>2. Compounding "Bases"</li> </ol>

Impact	Description
Data providers using ProSYNC interface and File Upload spreadsheet	Prepare internal processes and systems for these attributes to become mandatory where applicable.
Data providers using EDI	Prepare internal processes and systems for these attributes to become mandatory where applicable. <p><b>EDI 4010</b></p> <ul style="list-style-type: none"> <li>▪ PID04, De349=S, De750=HZR, De559=VI</li> </ul> <p><b>EDI 6020</b></p> <ul style="list-style-type: none"> <li>▪ TD401 (152) HAZ Hazardous Cargo</li> <li>▪ TD402 (208) Select one:               <ul style="list-style-type: none"> <li>E Endorsement</li> <li>User Note 1: Identifies WHMIS Classification System provided in TD403</li> </ul> </li> <li>▪ TD403 (209) Value               <ul style="list-style-type: none"> <li>User Note 1: When TD402 = E Endorsement, select one of WHMIS Classification Codes Class:                   <ul style="list-style-type: none"> <li>A, B, C, D1, D2, D3, E, F</li> </ul> </li> </ul> </li> <li>▪ TD404 (352) Description of the classification code</li> </ul>
Data providers using GDSN to send to ECCnet data recipients	Prepare internal processes and systems for these attributes to become mandatory where applicable. <p>Set  <code>transportationClassification/regulatedTransportationMode/hazardousInformationHeader/dangerousGoodsRegulationAgency = WHMIS</code>            , populate the  <code>transportationClassification/regulatedTransportationMode/hazardousInformationHeader/dangerousGoodsRegulationCode</code>            with one of the valid codes.</p> <p>For a full list of codes, see the <i>Delta Guide</i> on the <a href="#">ECCnet Registry Technical Documents page</a>.</p>
Data providers sending to GDSN data recipients	No impact
Data recipients	To receive ECCnet product data from your business partners, you must ensure that your internal processes and systems

Impact	Description
	can receive data with the mandatory attributes where applicable.

## Foodservice: Changes that support the 2017 NFT and Ingredients List Food Labeling Regulation

As of Dec 2016, Health Canada made improvements to the Nutrition Facts Table and list of ingredients on food labels. The change in regulations have removed Vitamin A and C from the Nutrition Facts Table, and enforced Potassium declaration. Manufacturers have a 5-year transition period to change the labelling. To ensure continuous alignment with the Canadian Food Labeling requirements, and to ensure a seamless transition to the new regulation, the release of ECCnet Registry 11.8 will validate the completeness of the nutrition information based on whether the nutrition labels follow the 2017 rules or pre-2017 rules using the existing "Food Label Version" attribute in ECCnet.

See table below for the updated nutrition applicability highlighted with yellow background and bolded character.

		Food Label Version Pre-2017 or Blank		Food Label Version 2017	
	Nutr. Format Type	Nutrition Format Type		Nutrition Format Type	
Nutrition Data	NI	AB	NFT, NDE and SN	AB	NFT, NDE and SN
Calculation Size	M	M	M	M	M
Calories	M	M	M	M	M
Total Fat (Value & UOM)	M	M	M	M	M
Total Fat %DV	O	O	M	O	M
Saturated Fat (Value & UOM)	O	M	M	M	M
Saturated Fat %DV	O	O	M	O	M
Transfatty Acids (Value & UOM)	O	M	M	M	M
Cholesterol (Value & UOM)	O	M	M	M	M
Sodium (Value & UOM)	O	M	M	M	M
Sodium %DV	O	O	M	O	M
Carbohydrates (Value & UOM)	M	M	M	M	M
Carbohydrates %DV	O	O	M	O	M
Total Dietary Fibre (Value & UOM)	O	M	M	M	M

		Food Label Version Pre-2017 or Blank		Food Label Version 2017	
	Nutr. Format Type	Nutrition Format Type		Nutrition Format Type	
Nutrition Data	NI	AB	NFT, NDE and SN	AB	NFT, NDE and SN
Total Dietary Fibre %DV	O	O	M	O	M
Total Sugar (Value & UOM)	O	M	M	M	M
Total Sugar %DV	O	O	O	O	<b>M</b>
Protein (Value & UOM)	M	M	M	M	M
Vitamin A (Value & UOM)	O	M	O	<b>O*</b>	O
Vitamin A %DV	O	O	M	O	<b>O*</b>
Vitamin C (Value & UOM)	O	M	O	<b>O*</b>	O
Vitamin C %DV	O	O	M	O	<b>O*</b>
Iron (Value & UOM)	O	M	O	M	<b>M</b>
Iron %DV	O	O	M	O	M
Calcium (Value & UOM)	O	M	O	M	<b>M</b>
Calcium %DV	O	O	M	O	M
Potassium (Value \$ UOM)	O	O	O	<b>M</b>	<b>M</b>
Potassium %DV	O	O	O	O	<b>M</b>

\* Some Foodservice data recipients are still producing the Pre-2017 Nutrition Fact Tables for their recipes. It's highly recommended to continue providing Vitamin A and C for the 2017 labels to help your data recipients achieve operational efficiencies during the transition period to 2021.

### Short Forms Used in this Table

#### Nutrition Format Types

- NI – Nutrition Information (Division 24 and 25)
- AB – Food for use in manufacturing
- SN – Special Nutrition Facts Table
- NFT – Nutrition Facts Table
- NDE – Nutrition Data Exempt

#### Applicability Status

- O – Optional
- M – Mandatory

## Optional Attributes Added to ECCnet Registry

### Consumer Product Variant Reason Code

This attribute allows the brand owner to indicate a reason code describing the impacted change (packaging change, graphics change, minor formulation, etc.) for a consumer product. This informs data recipients about the reason for a new version of the data.

Applicable at the consumer level for Grocery and Foodservice channels, and at the case level for Foodservice channel

### Milk Categories

Based on the Canadian Food Inspection Agency – only milk and milk derivatives from a cow are considered priority allergens. Many consumers are specifically allergic to cow’s milk, and not milk from other animal sources. To align with the regulation, as well as to guide the consumers to products containing either non-bovine animal milk sources, or to other plant-based milk sources, ECCnet Registry is being enhanced by:

- Revising Attribute name: From “Allergen – Milk” to “Allergen - Milk (Cow)”
- Adding New Attributes to the Grocery channel at the consumer level, and to the Foodservice channel at the consumer and case levels
  - Animal Milk Source – Identify the animal source if not bovine (cow) from a list.
  - Animal Milk Source Other – English
  - Animal Milk Source Other – French
  - Plant Based Milk Source – Identify the plant source from a list.
  - Plant-Based Milk Source Other – English
  - Plant-Based Milk Source Other – French

### Ocean Wise

Customers are becoming more aware of sustainable seafood choices, and they are looking for additional information on products to make the right purchasing choice. The Ocean Wise logo makes it easy to choose sustainable seafood suppliers who use methods that ensure the long-term health of our oceans. ECCnet data providers can now use ECCnet to indicate if their product is certified “Ocean Wise” using the existing optional ECCnet attribute “Certification Type” and indicating Ocean Wise.

This attribute is available at Grocery at the consumer level, and for Foodservice at the case and consumer levels.

Note: “Aquaculture Stewardship Council (ASC)” and “Marine Stewardship Council (MSC)” sustainability logo declarations are already available using the existing optional ECCnet attribute “Certification Type”.

### Packaging Recycling Process

Transparency around the ability of product packaging to be composted is increasing in demand to support sustainability initiatives in the Foodservice industry.

ECCnet Registry is enhanced with the addition of the new “Packaging Recycling Process Type Code” optional attribute to allow data providers to indicate if the product packaging is certified as:

- Compostable Biodegradable Products (according to the Biodegradable Products Institute)
- Canadian Certified Compostable (by Paper Packaging Canada)
- BNQ Certification (Bureau de normalisation du Québec)

This attribute is available at Grocery at the consumer level, and for Foodservice at the case and consumer levels.

Also, the following options are added to the existing optional attribute “Certification Type” to allow data providers to indicate if the product is:

- Compostable
- Energy Recoverable
- Recyclable
- Reusable

### **Transportation of Dangerous Goods (TDG)**

To enable data recipients to have a central source for all regulatory data related to transportation. The following Transportation of Dangerous Goods attributes are added to ECCnet Registry. For new or updated product information, this will enable data recipients to analyze the products for compliance with the regulation and operational requirements.

- Shipping Name TDG - English
- Shipping Name TDG - French
- Primary Class TDG
- Subsidiary Class TDG
- Limited Quantity Index TDG Value
- Limited Quantity Index TDG UOM

These attributes are added as optional for all channels except Medical Devices, for all hierarchy levels.

The following existing attribute applicability has been updated to be used for Grocery, Foodservice and Pharmacy channels for all hierarchy levels

- UN Hazardous Material Class Code

### **Vegetarian**

Data recipients are looking for further transparency in product information across product categories/product claims to make informed purchasing decisions, change operating practices to align with market changes, consumer trends relative to sustainability. At the same time, data providers want to be able to share all relevant product information to enable them to differentiate their products and enable their trading partners to make informed purchasing decisions.

The purpose of this change is to enable data providers to indicate if their product is "vegetarian", which is to describe foods that are suitable for any one of the following types of diets:

- Lacto-ovo (or Ovo-lacto)-vegetarian - permits plant foods plus dairy and egg
- Lacto-vegetarian - permits plant foods plus dairy, no eggs
- Ovo-vegetarian - permits plant foods plus eggs, no dairy

ECCnet Registry has been enhanced to add the following two optional attributes, for Foodservice channel at the consumer and case levels and for Grocery channel at the consumer level:

- Vegetarian
- Vegetarian Sub Code

Note: "Vegan" option is currently supported in ECCnet Registry through "Certification Type" list of options.

## Global Data Standards Alignment

### GDSN maintenance release 3.1.11 and 3.1.12

Continued global data standards alignment with the latest GDSN releases 3.1.11 and 3.1.12 to enable data synchronization with global trading partners. For GDSN mapping specifications, see the *Delta Guide* on the [ECCnet Registry Technical Documents page](#).

Attribute/Code List	Alignment Description
Contact Type	Added three new code values <ul style="list-style-type: none"> <li>■ Manufacturer</li> <li>■ Packer</li> <li>■ Produced for</li> </ul>
GTIN Qualifier	Added GDSN mapping from ZERO_SUPPRESSED_GTIN to ECCnet GTIN Type UPC (GTIN 12)
Nutrient Claim Type code	Added GDSN mapping to the following two ECCnet code values: <ul style="list-style-type: none"> <li>■ Excellent source of</li> <li>■ Good source of</li> </ul>
Variant Text 1 Variant Text 2	Added GDSN mapping from tradeItemVariantValue under module tradeItemDescriptionModule/tradeItemDescriptionInformation / tradeItemVariant/tradeItemVariantTypeCode
Variant Qualifier	Added GDSN mapping to the following two ECCnet code values: <ul style="list-style-type: none"> <li>■ Color</li> <li>■ Flavor</li> </ul>
Is Organic Product	Updated GDSN outbound mapping for data providers who synchronize their data with their GDSN Trading Partners:



Attribute/Code List	Alignment Description
	<ul style="list-style-type: none"> <li>■ Added new mapping to dietTypeCode if "Is Organic Product" = 2 Organic (at least 95%)</li> </ul>

### Alcoholic Beverage Sub Region

65 new regions are added to the Alcoholic Beverage Sub Region attribute in ECCnet Registry.

Sub Region: A legally defined geographical region where the grapes for a wine were grown; also known as an appellation. Examples below. For a complete list of sub regions, see the *Delta Guide* on the [ECCnet Registry Technical Documents page](#).

- ANTIGUA AND BARBUDA - ANTIGUA
- DENMARK - UNCLASSIFIED
- FRANCE - BURGUNDY
- INDIA - UNCLASSIFIED
- JAMAICA - UNCLASSIFIED

### Aliments du Québec

GDSN data providers can now synchronize their data from GDSN to their ECCnet data recipients to indicate if their products carry one of the following ADQ (Aliments du Québec) certifications using PackagingMarkedLabelAccreditationCode:

- ALIMENTS\_DU\_QUEBEC (Food of Quebec)
- ALIMENTS\_PREPARES\_AU\_QUEBEC (Food prepared in Quebec)
- ALIMENTS\_DU\_QUEBEC\_BIO (Organic food of Quebec)
- ALIMENTS\_BIO\_PREP\_AU\_QUEBEC (Organic food prepared in Quebec)

### Case Yield change from Numerical Field to Decimal

To align with Global Standards, the format of attribute "Case Yield" is changed from a numerical field to a decimal allowing up to 1 decimal point.

### Hazardous Material (WHMIS) – Description

Added Inbound mapping from GDSN: hazardousMaterialAdditionalInformation

### Packaging Form: Ampoule

To align with Global Standards, the Packaging Form attribute is updated to support "Ampoule" selection.

Ampoule: A relatively small container made from glass or plastic tubing, the end of which is drawn into a stem and closed by fusion after filling. The bottom may be flat, convex, or drawn out. An ampule is opened by breaking the stem.

## Product Packaging and Processing Province Attributes

GDSN data providers can now synchronize their data from GDSN to their ECCnet data recipients for the following two attributes:

Attribute	GDSN mapping to ECCnet Registry
Product Packaging Province	Module: placeOfItemActivityModule/placeOfProductActivity/productActivityDetails/countryOfActivity/ Populate countrySubdivisionCode and set <ul style="list-style-type: none"> <li>▪ productActivityTypeCode to ASSEMBLY</li> <li>▪ and countryOfActivity/countryCode to 124</li> </ul>
Product Processing Province	Module: placeOfItemActivityModule/placeOfProductActivity/productActivityDetails/countryOfActivity/ Populate countrySubdivisionCode and set <ul style="list-style-type: none"> <li>▪ productActivityTypeCode to LAST_PROCESSING</li> <li>▪ and countryOfActivity/countryCode to 124</li> </ul>

## GPC alignment

Global Product Classification (GPC) codes have been changed to comply with GS1 global changes. The following GPC codes have been added to align with the December 2019 GPC Publication:

Code	Description
10008022	Gift Card Holder/Sleeve
10008023	Hair – Brushes and Combs
10008024	Cosmetic Applicators
10008025	Step Stools
10008026	Towel Bars/Hooks/Rings – Not Fixed
10008027	Small Fruit Variety Packs
10008028	PrePaid Cards/Gift Cards/Vouchers

The following codes have been removed:

Code	Description
10001195	Mobile Phone Pre-pay Vouchers/Cards
10005813	Electronic Gift Cards

## Change Log

Date	Description
2020-03-30	Published