



GDSN Mandatory Attributes -- Simplified

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Overview

- This presentation provides a basic overview of the mandatory attributes required by the Global Data Synchronisation Network (GDSN).
- These attributes are required regardless of the industry, sector or product for which data is being synchronised.
- Some of the descriptions listed in this document have been generalized to express the intended use of the attribute. The XML tag name has been included in the description as a link to the Global Data Dictionary (GDD), which provides the formal definition.

<http://gdd.gs1.org/GDD/public/default.asp>

There are 24 mandatory attributes required to synchronize data via the GDSN

- There are 7 attributes are required to register products in the GS1 Global Registry.
 - The eighth, Target Market Sub-division, is optional.
- The other 17 attributes are required to exchange data across the network (within one data pool or across two or more data pools).
 - Of these 17 attributes, 10 require **Yes/No** responses related to the product.
 - The other 7 attributes require actual product related data.

Attributes Required by the Global Registry





Mandatory attributes

GS1 Global Registry

	Mandatory attributes	Description
1	GLN of source Data Pool	The data pool that serves as the entry point into the GDSN and connection to other GDSN certified data pools. (contentOwner)
2	GLN of data source	Entity that provides the global data synchronization network with Master Data. (dataSource).
3	GTIN	The Global Trade Item Number of the product (drugs, medical device, non medical supply (e.g. light bulbs)). (gTIN)
4	Target Market Country Code	The country where the product is intended to be sold. (targetMarketCountryCode).
5	Target Market Subdivision Code (optional)	The code for country sub-division definition used to indicate the geo-political subdivision of the target market. (targetMarketSubdivisionCode)
6	GPC	The Global Product Classification is the GS1 classification system used in the Global Registry. The GPC identifies a category for the product (GTIN) registered. (classificationCategoryCode)
7	State	The status of the product registered. The states are: Registered, Cancelled, and Discontinued. (state)
8	Date	Attribute names: registrationDate , cancelDate , deletionDate , discontinuedDate , lastChangeDate . The last changed date is generated by the Global Registry.

Other Mandatory GDSN Attributes



Mandatory attributes GDSN

	Mandatory attributes	Description
9	Information Provider of Trade Item	GLN and additional identification of the party providing the information of the trade item. This is the data source. (informationProviderOfTradeItem)
10	Hierarchy level per GS1 code list	Describes the hierarchical level of the trade item. TradeItemUnitIndicator is mandatory. Examples: "CASE" , "PALLET". (tradeItemUnitDescriptor)
11	Brand name	The recognizable name used by a brand owner to uniquely identify a line of trade item or services. (brandName)
12	Functional Name	Describes use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN. (functionalName)
13	Base Unit? (Y/N)	An indicator identifying the trade item as the base unit level of the trade item hierarchy. This is a y/n (Boolean) where y indicates the trade item is a base unit. (isTradeItemABaseUnit)
14	Consumer Unit? (Y/N)	Identifies whether the current hierarchy level of a trade item is intended for ultimate consumption. For retail, this trade item will be scanned at point of sale. At retail, this data is commonly used to select which GTINs should be used for shelf planning and for front end POS databases. This value reflects the intention of the Information Provider which may not necessarily be reflected by the retailer. (isTradeItemACosumerUnit)

Mandatory attributes

GDSN

	Mandatory attributes	Description
15	Despatch Unit? (Y/N)	An indicator identifying that the information provider considers the trade item as a despatch (shipping) unit. This may be relationship dependent based on channel of trade or other point to point agreement. (isTradeDespatchUnit)
16	Invoice Unit? (Y/N)	An indicator identifying that the information provider will include this trade item on their billing or invoice. This may be relationship dependent based on channel of trade or other point to point agreement. (isTradeItemAnInvoiceUnit)
17	Orderable Unit? (Y/N)	An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers. This may be different from what the information provider identifies as a despatch unit. This may be a relationship dependent based on channel of trade or other point to point agreement. (isTradeItemAnOrderableUnit)
18	Variable Measure? (Y/N)	Indicates that an article is not a fixed quantity, but that the quantity is variable. Can be weight, length, volume. Trade item is used or traded in continuous rather than discrete quantities. (isTradeItemAVariableUnit)
19	Returnable packaging? (Y/N)	Trade item has returnable packaging. Attribute applies to returnable packaging with or without deposit. (isPackagingMarkedReturnable)

Mandatory attributes GDSN

	Mandatory attributes	Description
20	Batch/Lot Number? (Y/N)*	An indicator that a batch or lot number is assigned by the manufacturer to one or more items in batch/lot. Differs from Serial Number which is a manufacturer assigned code to a single item. (hasBatchNumber)
21	Non-sold item returnable? (Y/N)*	An indicator that the buyer can return products not sold. For example, used 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 Fast Moving Consumer Goods (FMCG) trade items. (isNonSoldTradeItemReturnable)
22	Marked Recyclable? (Y/N)*	Trade item has a recyclable indication marked on it. This may be a symbol from one of many regional agencies. (isTradeItemMarkedAsRecyclable)

* These three attributes are part of the Trade item Marking class (**tradeItemMarking**), which is a mandatory class. At least one of these attributes must be populated.

Mandatory attributes GDSN

	Mandatory attributes	Description
23	Height & UoM	The measurement of the height of the trade item. The vertical dimension from the lowest extremity to the highest extremity, including packaging. At a pallet level the trade item Height will include the height of the pallet itself. Business Rules: Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid Unit of Measure (UoM). (height)
24	Width & UoM	The measurement from left to right of the trade item. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM. (width)
25	Depth & UoM	The measurement from front to back of the trade item. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM. (depth)



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 - 7 attributes require actual product related data.





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