

## Explanation of the ECHO Data Model

When you begin entering data into a GDSN datapool, such as GS1 Data Source, you use the ECHO data model. Here you can find a brief explanation of how the ECHO data model should be used.

- In the "**Explanation**" tab, you can find information about the usage of the ECHO data model.
- The "**Field Definitions**" tab displays all data fields or attributes used in healthcare. The last columns show the mandatory, conditionally mandatory and optional attributes for each country connected to ECHO.
- The "**NL**" tab is used for the Dutch market, you will find the specific requirements for the Netherlands here.

## Getting Started

We'll show you a few columns in the Dutch (NL) tab to help you get started.

- In the "**NL HC Required**" column, you can filter for the Mandatory, Conditionally Mandatory and optional attributes.
- In the "**MD (Medical Devices) / PH (Pharmaceuticals)**" column, you can filter for what applies to medical devices or pharmaceuticals. Certain attributes for medical devices may not need to be filled for pharmaceuticals, and vice versa.
- For each attribute, there is a description and example. You can find this information in the "**Description**," "**Entry Notes**," and "**Example**" columns.

## Columns

- "**BMS ID**" contains the Business Message Standard identification, used as identification in the GDSN standard.
- "**GS1 Data Source ID**" contains the number of the attribute that is used in GS1 Data Source.
- "**Attribute Name English**" and "**Attribute Name Dutch**" contain the field names for searching in the GDSN datapool.
- "**GDSN Name**" contains the internationally agreed-upon GDSN name.
- "**Mand. GDSN**" indicates whether it is mandatory to fill a field within the GDSN standard. If it is mandatory, you cannot publish your data unless the attribute has been filled with valid content.
- "**NL HC Data Type & Length**" shows the type of field: Boolean, a dropdown list, a date/time field, numeric, or a free-text field.
- "**Description** (English and Dutch)" describes what is requested in the attribute.
- "**Data Entry Notes / Instruction** (English and Dutch)" contains rules about the allowed values.

- **"NL HC Required"** is where you can filter for attributes that are (conditionally) mandatory for the Dutch market.
- **"Example** (English and Dutch)" provides examples of correct values.
- **"Dutch Implant Registry"** indicates which attributes must be filled for the Dutch Implant Registry (LIR).
- **"MD** (Medical Devices) / **PH** (Pharmaceuticals)" column allows filtering based on medical devices or pharmaceuticals.
- **"Remarks"** includes important additional comments and links to code lists.

## Attributes with Multiple Values

In some attributes, multiple values may need to be filled. For example, GMDN and risk class should be filled in the same attribute. In a GDSN datapool, you can copy the attribute or section (containing multiple attributes).

## Releases

There are quarterly releases where changes can be made to the data model based on market needs. Changes are communicated through the website and email.

## Questions

If you have questions about the ECHO data model, feel free to contact [healthcare@gs1.nl](mailto:healthcare@gs1.nl) or go to <https://gs1.eu/activities/echo/>.

Attachment 1: Explanation of Some Attributes

## **Additional Trade Item Identification**

For medical devices, use only allowed and correct values:

- "MODEL\_NUMBER" represents an additional supplier identification number defining the configuration on top of the item number.
- "SUPPLIER\_ASSIGNED" is developed and assigned by the party providing the service(s) or manufacturing the goods.

## **Global Product Classification: GPC Brick**

When entering product data, choose a category using the Global Product Classification (GPC) system:

- Medical Devices: 10005844
- Supporting Component of a Medical Device: 10008118
- Pharmaceuticals: 10005845

## **Trade Item Description**

Enter the product description consistently using information from "Brand Name," "Subbrand," "Functional Name," and "Net Content" (PH) or "UDID Device Count" (MD). Avoid using abbreviations in this attribute, except for official unit abbreviations.

## **Batch Number and Serial Number Location Code**

These fields are used by healthcare institutions to determine how codes should be read. Fill them accurately. For serial number, "NOT\_MARKED" means the item is not serial number controlled; other values indicate serial number control.

## **Additional Trade Item Classification System Code and Additional Trade Item Classification Code Value**

These attributes are filled for risk class under MDD, AIMDD, IVDD, MDR, IVDR, and GMDN.

- Code 76 for risk class under MDR/IVDR: Choose one of the values: EU\_CLASS\_I, EU\_CLASS\_IIA, EU\_CLASS\_IIB, EU\_CLASS\_III, EU\_CLASS\_A, EU\_CLASS\_B, EU\_CLASS\_C, EU\_CLASS\_D.
- Code 85 for risk class under MDD/AIMDD/IVDD: Choose one of the values: EU\_CLASS\_I, EU\_CLASS\_IIA, EU\_CLASS\_IIB, EU\_CLASS\_III, IVDD\_ANNEX\_II\_LIST\_A, IVDD\_ANNEX\_II\_LIST\_B, IVDD\_DEVICES\_SELF\_TESTING, IVDD\_GENERAL.
- Code 35 is used for GMDN code.