Data type - Value Domain

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# Data type - Value Domain

The following information is applicable to value domains only.

## Definition

A set of distinct values, characterised by properties of those values and by the operations on those values e.g. Currency and Number.

## Obligation

Mandatory completion.

## Development rules

Valid data types are presented in Table 1.

The data type reflects the main structure of the value domain, not supplementary value(s) such as 99 - not stated/inadequately described. For example, the data type for a value domain holding yes/no values and a 99 - not stated/inadequately described code is *Boolean*, not *Number*.

A value domain of representation class *Average* or *Total* must have a data type of *Currency* or *Number*.

A value domain of representation class *Currency* must have a data type of *Currency*.

A value domain of representation class *Count* or *Quantity* must have a data type of *Number*.

A value domain of representation class *Percentage* and *Ratio* must have a data type of *Number*.

A value domain of representation class *Code* or *Identifier* must have a data type of *Number* or *String*.

A value domain of representation class *Date* or *Time* must have a data type of *Date/time*.

A value domain of representation class *Text* must have a data type of *String*.

**Table 1: Data type values and their associated meaning**

|  |  |
| --- | --- |
| **Value** | **Meaning** |
| Boolean | A binary value expressed using a string e.g. true or false. |
| Currency | A numeric value expressed using a particular medium of exchange. |
| Date/Time | A specific instance of time expressed in numeric form. |
| Number | A sequence of numeric characters which may contain decimals, excluding codes with ‘leading’ characters e.g. ‘01’,’02’,’03’. |
| String | A sequence of alphabetic and/or numeric characters, including ‘leading’ characters e.g. ‘01’,‘02’,‘03’. |
| Geospatial | Relating to the relative position of things on the earth's surface. |

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