

# **SDMX CONTENT-ORIENTED GUIDELINES**

# **ANNEX 4:**

# METADATA COMMON VOCABULARY

Please note that the Metadata Common Vocabulary was replaced in February 2016 by the SDMX Glossary

2009



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# **METADATA COMMON VOCABULARY**

# **Table of Contents**

1.	Access	15
2.	Accessibility	15
3.	Accounting conventions	15
4.	Accuracy	16
5.	Adjustment	16
6.	Administered item	17
7.	Administration record	18
8.	Administrative data	18
9.	Administrative source	18
10.	Age	18
11.	Agency	19
12.	Aggregated data	19
13.	Aggregation	19
14.	Analytical framework	20
15.	Analytical unit	20
16.	Area sampling	21
17.	Attachment level	21
18.	Attribute	21
19.	Base period	22
20.	Base weight	23
21.	Base year	23
22.	Basic data	23
23.	Benchmark	23
24.	Benchmarking	23
25.	Bias	24
26	Bilateral eychange	24



<b>27</b> .	Break	25
28.	Category	25
29.	Category Scheme	25
30.	Census	25
31.	Chain index	26
32.	Characteristic	26
33.	Civil Status	27
34.	Clarity	27
35.	Class	27
36.	Classification	28
37.	Classification system	29
38.	Classification unit	29
39.	Classification version	29
40.	Code	30
41.	Code list	30
<b>42</b> .	Coding	30
43.	Coding error	31
44.	Coherence	31
<b>45</b> .	Collection	32
46.	Comment	32
<b>47</b> .	Comparability	32
48.	Compilation	33
49.	Compilation practices	33
<b>50</b> .	Compiling agency	33
51.	Completeness	33
<b>52.</b>	Computer Assisted Interviewing, CAI	33
<b>53.</b>	Concept	34
54.	Concept Scheme	34
<b>55.</b>	Conceptual data model	35
<b>56.</b>	Conceptual domain	35
<b>57.</b>	Confidential data	36
58.	Confidentiality	36
<b>59</b> .	Consistency	37
60.	Consolidation	37
61.	Constraint	38
62.	Contact	38



63.	Context	39
64.	Cost and burden	39
<b>65</b> .	Counterpart reference area	39
66.	Country identifier	40
<b>67</b> .	Coverage	40
68.	Coverage error	40
69.	Coverage ratio	41
<b>70</b> .	Creation date	41
71.	Credibility	41
<b>72.</b>	Cross-domain Concepts	42
<b>73</b> .	Currency	42
74.	Cut-off survey	42
<b>75.</b>	Cut-off threshold	43
<b>76.</b>	Data	43
<b>77.</b>	Data analysis	44
78.	Data attribute	44
<b>79</b> .	Data capture	44
80.	Data checking	44
81.	Data collection	45
82.	Data compilation	45
83.	Data compiling agency	45
84.	Data confrontation	46
85.	Data consumer	46
86.	Data dissemination agency	46
87.	Data editing	46
88.	Data element	47
89.	Data exchange	48
90.	Dataflow definition	48
91.	Data identifier	49
92.	Data imputation	49
93.	Data integration	49
94.	Data interchange	49
95.	Data model	49
96.	Data presentation	50
97.	Data processing	50
98.	Data provider	50



99.	Data provider series key	51
100.	Data reconciliation	51
101.	Data revision	51
102.	Data security	52
103.	Data set	52
104.	Data set identifier	53
105.	Data sharing	53
106.	Data status	54
107.	Data storage	54
108.	Data structure definition	54
109.	Data type	55
110.	Data update	55
111.	Data validation	56
112.	Date	56
113.	Date of last change	56
114.	Decimals	57
115.	Definition	57
116.	Derived data element	57
117.	Derived statistic	58
118.	Dimension	58
119.	Dimensionality	58
120.	Disaggregation	59
121.	Disclosure analysis	60
122.	Dissemination	60
123.	Dissemination format	60
124.	Dissemination standard	61
125.	Documentation	61
126.	Documentation on methodology	62
127.	Domain groups	62
128.	Dublin core	62
129.	EDIFACT	63
130.	Education level	63
131.	Electronic data interchange, EDI	63
132.	Embargo time	64
133.	Entity	64
134	Error of estimation	64



135.	Error of observation	.65
136.	Estimate	.65
137.	Estimation	.65
138.	Estimator	.66
139.	Flag	66
140.	Flow data series	.66
141.	Follow-up	.66
142.	Footnote	.67
143.	Frame	67
144.	Frame error	.68
145.	Frequency	.68
146.	Gateway	.69
147.	Gateway exchange	.69
148.	General Data Dissemination System, GDDS	69
149.	Geographical coverage	.70
150.	GESMES	.70
151.	GESMES/CB.	.70
152.	GESMES/TS	.70
153.	Glossary	.71
154.	Graphical data editing	.72
155.	Grossing / Netting	.72
156.	Grossing up	.72
157.	Guidelines	.73
158.	Hierarchy	.73
159.	Identifier	73
160.	Imputation	.74
161.	Index type	.74
162.	Indicator	74
163.	Information	.74
164.	Information system	.75
165.	Institutional mandate	.75
166.	Institutional sector	.76
167.	Institutional unit	.76
168.	Integrity	76
169.	Internal access	.77
<b>170</b> .	International code designator	.77



171.	International statistical standard	.77
172.	Interpolation	.78
173.	Interpretability	.78
174.	Interviewer error	.78
175.	ISO/IEC 11179	.79
176.	Item response rate	.80
177.	Key	.80
178.	Key family	.81
179.	Key structure	.81
180.	Keyword	.81
181.	Language	.82
182.	Level	.82
183.	Macro editing	.82
184.	Macrodata	.83
185.	Maintenance agency	.83
186.	Matching	.83
187.	Measure	.84
188.	Measurement error	.84
189.	Metadata	.84
190.	Metadata attribute	.85
191.	Metadata dimension	.85
192.	Metadata item	.85
193.	Metadata layer	.86
194.	Metadata object	.86
195.	Metadata registry	.86
196.	Metadata repository	.87
197.	Metadata set	.88
198.	Metadata structure definition	.88
199.	Metadata update	.88
200.	Metadataflow definition	.89
201.	Metamodel	.89
202.	Methodological soundness	.89
203.	Methodology	.90
204.	Micro editing	.90
205.	Microdata	.90
206.	Ministerial commentary	.91



207.	Misclassification	.91
208.	Missing data	.91
209.	Model assumption error	92
210.	Multilateral exchange	92
211.	Name	92
212.	Nomenclature	.93
213.	Non-probability sample	.93
214.	Non-response	.93
215.	Non-response bias	94
216.	Non-response error	94
217.	Non-response rate	.95
218.	Non-sampling error	.95
219.	Object	96
220.	Object class	96
221.	Objectives	.96
222.	Observation	.97
223.	Observation confidentiality	.97
224.	Observation pre-break value	.97
225.	Observation status	.98
226.	Observation unit	.98
227.	Observation value	.98
228.	Occupation	.99
229.	Official statistics	.99
230.	Ontology	.99
231.	Organisation	100
232.	Organisation identifier	100
233.	Organisation role	.101
234.	Origin	101
235.	Originator data identifier	101
236.	Out-of-scope units	102
237.	Over-coverage	.102
238.	Period	102
239.	Periodicity	.103
240.	Permissible value	103
241.	Permitted value	.104
242	Pre-break observation	104



243.	Pre-break value	.104
244.	Precision	104
245.	Pre-release access	104
246.	Prerequisites of quality	105
247.	Primary source	105
248.	Probability sample	106
249.	Processing error	106
250.	Product	106
251.	Professionalism	.107
252.	Property	.107
253.	Provider load	.107
254.	Provision agreement	108
255.	Public disclosure	108
256.	Punctuality	108
257.	Qualitative data	109
258.	Quality	109
259.	Quality control survey	110
260.	Quality differences	.110
261.	Quality index	.110
262.	Quality management	110
263.	Quantitative data	.111
264.	Questionnaire	.111
265.	Questionnaire design	.112
266.	Ratio estimation	112
267.	Receiving organisation	112
268.	Recommended use of data	.113
269.	Record check	.113
<b>270</b> .	Recording basis	.113
271.	Recording of transactions	.114
272.	Record-keeping error	.114
273.	Reference area	.114
274.	Reference document	114
275.	Reference metadata	.115
276.	Reference period	115
277.	Reference time	.116
278.	Refusal rate	.116



279.	Register	116
280.	Registrar	117
281.	Registration	117
282.	Registration authority	117
283.	Registry	118
284.	Registry item	118
285.	Registry metamodel	119
286.	Related data reference	119
287.	Related metadata reference	119
288.	Relationship	120
289.	Release policy	120
290.	Relevance	121
291.	Reliability	121
292.	Reporting agency	122
293.	Reporting unit	122
294.	Respondent burden	122
295.	Respondent load	122
296.	Response error	123
297.	Response rate	123
298.	Revision policy	123
299.	Sample	123
300.	Sample design	124
301.	Sample size	124
302.	Sample survey	125
303.	Sampling	125
304.	Sampling error	125
305.	Sampling fraction	126
306.	Sampling frame	126
307.	Sampling technique	126
308.	Schedule	126
309.	Scope	127
310.	SDMX, Statistical Data and Metadata Exchange	127
311.	SDMX Registry	128
312.	SDMX-EDI	128
313.	SDMX-ML	128
314.	Seasonal adjustment	129



315.	Secondary supplier1	<b>29</b>
316.	Semantics1	30
317.	Sending organisation1	30
318.	Serviceability1	30
319.	Sex1	30
320.	Sibling group1	31
321.	Simultaneous release1	31
322.	Source1	32
323.	Source data1	32
324.	Special Data Dissemination Standard, SDDS1	32
325.	Standard classification1	33
326.	Standard error1	34
<b>327.</b>	Statistical activity1	34
328.	Statistical business process1	34
329.	Statistical concept1	34
330.	Statistical error1	35
331.	Statistical indicator1	35
332.	Statistical information1	36
333.	Statistical macrodata1	36
334.	Statistical measure1	36
335.	Statistical message1	<b>37</b>
336.	Statistical metadata1	<b>37</b>
337.	Statistical metadata system1	38
338.	Statistical metainformation1	38
339.	Statistical metainformation system1	38
340.	Statistical methodology1	39
341.	Statistical microdata1	39
342.	Statistical organisation1	39
343.	Statistical population1	40
344.	Statistical processing1	40
345.	Statistical production1	41
346.	Statistical purpose1	41
	Statistical standard1	
348.	Statistical subject-matter domain1	42
349.	Statistical unit1	42
350.	Statistical variable1	43



351.	Stratification	.143
<b>352.</b>	Structural definition	.144
353.	Structural metadata	.144
354.	Structure	.144
355.	Study domain	.145
356.	Submitting organisation	.145
357.	Survey	146
358.	Survey data collection	.146
359.	Survey design	.147
360.	Syntax	147
361.	Target population	.147
362.	Taxonomy	.148
363.	Term	148
364.	Terminological entry	.148
365.	Terminological system	.149
366.	Terminology	.149
367.	Thesaurus	.149
368.	Time coverage	.150
369.	Time format	.150
370.	Time of recording	.150
371.	Time period	.151
372.	Time series	.151
373.	Time series break	.152
374.	Timeliness	.152
375.	Title	153
376.	Transparency	.153
377.	Trend	153
378.	Trend estimates	.154
379.	True value	.154
380.	Type of data collection	.154
381.	Under-coverage	.154
382.	Unit multiplier	.155
383.	Unit non-response	.155
384.	Unit of measure	.155
385.	Unit response rate	.156
386	Unit value	.156



387.	User	156
388.	User satisfaction survey	156
389.	Validation	157
390.	Valuation	157
391.	Value domain	157
392.	Value item	158
393.	Value meaning	158
394.	Verification	159
395.	Weight	159
396.	Weight period	160
397.	XML	160



# **METADATA COMMON VOCABULARY (2009)**

1. Access

**<u>Definition</u>**: The means and conditions under which data can be viewed or used.

**Context:** Access also refers to terms, copyright issues and confidentiality constraints

related to how the data can be used. A particular case is access to microdata, which can be defined as the process of providing users which are external to the data provider with access to unit level data, usually

under strictly controlled conditions.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Accessibility

Confidentiality

Data

Data provider Microdata

2. Accessibility

**<u>Definition</u>**: The ease and conditions under which statistical information can be

obtained.

**Context:** Accessibility refers to the availability of statistical information to the user. It

includes the ease with which the existence of information can be

ascertained, as well as the suitability of the form or medium through which the information can be accessed. The cost of the information may also be

an aspect of accessibility for some users.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Access

Clarity

Dissemination format

Integrity

Simultaneous release

3. Accounting conventions

**Definition:** The practical procedures, standards and other aspects used when

compiling data from diverse sources under a common methodological

framework.

**Context:** In the SDDS/DQAF framework, accounting conventions refer to descriptions

of the types of prices used to value flows and stocks, or other units of measurements used for recording the phenomena being observed; the time



of recording of the flows and stocks or the time of recording of other phenomena that are measured, including the reference period employed; and the grossing/netting procedures that are used.

Accounting conventions may refer to whether the data are recorded on a cash/accrual or mixed accounting basis, the time of their recording and the reference period (fiscal or calendar year) employed. The description could also include how consistent the practices used are with internationally accepted standards - such as the Balance of Payments 5th Manual or SNA93 - or good practices.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Reference period

Special Data Dissemination Standard, SDDS

Time of recording

Valuation

#### 4. Accuracy

**Definition:** Closeness of computations or estimates to the exact or true values that the

statistics were intended to measure.

**Context:** The accuracy of statistical information is the degree to which the information

correctly describes the phenomena. It is usually characterized in terms of error in statistical estimates and is often decomposed into bias (systematic error) and variance (random error) components. Accuracy can contain either measures of accuracy (numerical results of the methods for accuracy of data) or qualitative accordance indicators. It may

assessing the accuracy of data) or qualitative assessment indicators. It may also be described in terms of the major sources of error that potentially cause inaccuracy (e.g., coverage, sampling, non response, response error). Accuracy is associated with the "reliability" of the data, which is defined as the closeness of the initial estimated value to the subsequent estimated

value.

This concept can be broken down into: Accuracy - overall (summary assessment); Accuracy - non-sampling error; Accuracy - sampling error.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Bias

Error of estimation

Precision Quality Reliability Statistical error

# 5. Adjustment

**<u>Definition</u>**: The set of procedures employed to modify statistical data to enable it to

conform to national or international standards or to address data quality

differences when compiling specific data sets.



**Context:** Adjustments may be associated with changes in definitions, exchange

rates, prices, seasons and other factors. Adjustments are in particular applied to compile consistent time series, but the concept is also used for

describing adjustments related to other types of data.

Adjustment can be distinguished from editing and imputation, in that before adjustment, the data are already of sufficient quality to be considered

usable.

"Adjustment - coded" refers to the type of adjustment used, represented by a code, while "Adjustment - detail" refers to the textual description of the

type of adjustment used.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Compilation practices

Seasonal adjustment

Special Data Dissemination Standard, SDDS

#### 6. Administered item

**Definition**: Registry item for which administrative information is recorded in an

administration record.

**Context:** In the ISO/IEC 11179 standard:

Administered item "classification" is the relationship where an Administered

Item is classified based on a specified Classification Scheme.

Administered item "context" is the relationship that provides a Context for

an Administered Item.

Administered item "identifier" is an identifier for an administered item.

"Administrative note" is any general note about the Administered item.

"Origin" is the source (document, project, discipline or model) for the

Administered item.

(ISO/IEC International Standard 11179-3 "Information technology - Metadata registries - Part 3: Registry metamodel and basic attributes",

February 2003)

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

Hyperlink:

Related Terms: Administration record

Administrative data

Context Creation date Date of last change ISO/IEC 11179 Metadata registry

Origin

Originator data identifier

Registration Registry item



#### 7. Administration record

**<u>Definition</u>**: Collection of administrative information for an administered item.

Context:

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

**Related Terms:** Administered item

ISO/IEC 11179

#### 8. Administrative data

**Definition:** The set of units and data derived from an administrative source.

**Context:** A set of administrative data that can be searched by unit identifiers can be

referred to as an administrative register.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Administered item

Administrative source

Data

#### 9. Administrative source

**<u>Definition</u>**: A data holding containing information collected and maintained for the

purpose of implementing one or more administrative regulations.

**Context:** A wider definition of administrative sources, is used in the Eurostat

Business Registers Recommendations Manual: a data holding containing

information which is not primarily collected for statistical purposes.

The organisational unit responsible for maintaining one or more administrative sources is known as an administrative organisation.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Administrative data

Data

#### 10. Age

**Definition:** The length of time that a person has lived or a thing has existed.



**Context:** Age can be expressed as a number, e.g. 25 years old, or as a range, e.g.

"between 25 and 29 years" or "6 to 11 months".

It is in general a coded concept.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 11. Agency

See "Organisation"

## 12. Aggregated data

**<u>Definition</u>**: The result of transforming unit level data into quantitative measures for a

set of characteristics of a population.

Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Characteristic

Measure

# 13. Aggregation

**<u>Definition</u>**: A process that transforms microdata into aggregate-level information by

using an aggregation function such as count, sum average, standard

deviation, etc.

**Context:** Aggregation denotes the compounding of primary data into an aggregate,

usually for the purpose of expressing them in a summary form. For example, national income and price index numbers are aggregative, in contrast to the income of an individual or the price of a single commodity.

With standard hierarchical classifications, statistics for related categories can be grouped or collated (aggregated) to provide a broader picture, or categories can be split (disaggregated) when finer details are required and made possible by the codes given to primary observations (United Nations

Glossary of Classification Terms,

http://unstats.un.org/unsd/class/family/glossary\_short.htm).
A special case of aggregation is the grossing up of samples.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Compilation practices

Data set



Disaggregation Estimation Frequency Microdata

Statistical processing

## 14. Analytical framework

**<u>Definition</u>**: The system of criteria and standards within which data are analysed.

**Context:** In the context of SDDS, "analytical framework" consists of the following

components:

1. International / Supranational guidelines: identifies the standardized system of definitions and classifications applied for analytical purposes with regard to the conceptual framework and organization of the related transactions data. (e.g., national accounts System of National Accounts, U.N. 1993; government operations A Manual on Government Finance Statistics, IMF, 2001, balance of payments Balance of Payments Manual, IMF, 1993).

2. Specificities of national practice: describes how concepts, definitions, and classifications for the national data aggregates disseminated deviate from those contained in relevant international or regional standards and/or

guidelines.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Classification

Concept Definition

Special Data Dissemination Standard, SDDS

## 15. Analytical unit

**<u>Definition</u>**: Real or artificially constructed units, for which statistics are compiled.

**Context:** Analytical units are created by statisticians, often by splitting or combining

observation units with the help of estimations and imputations in order to compile more detailed and more homogeneous statistics than is possible using data on observation units (United Nations, Introduction to ISIC Rev. 3 (International Standard Industrial Classification of All Economic Activities, Revision 3), para. 63). Analytical units can correspond therefore for

example to enterprises, local units, kind-of-activity units (KAU), local kind-of-activity units (local KAU) as well as to units of homogeneous production

(UHP) and local units of homogeneous production (local UHP).

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Classification

Observation unit Statistical unit



## 16. Area sampling

**Definition:** A method of sampling used when no complete frame of reference is

available.

**Context:** In area sampling, the total area under investigation is divided into small sub-

areas which are sampled at random or by some restricted random process. Each of the chosen sub-areas is then fully inspected and enumerated, and

may form a frame for further sampling if desired.

Source: The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

Related Terms: Frame

Sampling

#### 17. Attachment level

**Definition:** A property of attributes defining the object to which data or metadata are

linked.

**Context:** In SDMX (and previously in Gesmes) for each attribute specified in a data

structure, there is a definition of whether this attribute takes:

- a value for each observation in the data set

- a value for each time series in the data set

- a value for each sibling group in the data set

- a single value for the entire data set.

Some metadata concepts (e.g. frequency) may not be meaningful at the observation level, but only when applied to a higher level (e.g. to a time series of observations). Time, on the other hand, is meaningful at observation level, because every observation is associated with a specific

point or period in time. Data structure definitions and Metadata structure definitions provide information about the level at which a particular concept descriptor is relevant: at observation level, time-series level, group level, dataset level or even agency level. This is known as the "attachment level"

of the concept.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Attribute

**GESMES/TS** 

#### 18. Attribute

**<u>Definition</u>**: A characteristic of an object or entity.

**Context:** An entity is any concrete or abstract thing of interest, including associations



among things. A composite attribute is an attribute whose datatype is non-atomic. An attribute instance is a specific instance of an attribute. An attribute value is the value associated with an attribute instance (ISO/IEC International Standard 11179-3 "Information technology - Metadata registries (MDR)-Part 3: Registry metamodel and basic attributes", February 2003).

A data or metadata attribute is a statistical concept providing qualitative information about a specific statistical object such as a data set, observation, data provider, or dataflow. Concepts such as units, magnitude, currency of denomination, titles and methodological comments can be used as attributes in the context of an agreed data exchange.

A conditional attribute is permitted to take empty values. A mandatory attribute is an attribute which must take a value, otherwise the corresponding observation, which it refers to, is not considered as meaningful enough, e.g. with regard to the "status" of an observation or the units in which a whole time series is expressed.

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink:** 

**Related Terms**: Attachment level

Class
Constraint
Data exchange
Data flow definition
Data structure definition

Entity GESMES GESMES/TS ISO/IEC 11179 Metadata item

Metadata structure definition

Object

Statistical concept Value domain

# 19. Base period

**<u>Definition</u>**: The period of time used as the base of an index number, or to which a

constant series refers.

**Context:** The base period refers to the period when the published index is 100, or to

which weights or base data refer to. It can be one single year (e.g. 1995=100) but it may be as short as one day or as long as a specified number of years. "Base period" may include an indication of the value of the

series in the base period (usually 1 or 100).

**Source:** SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Base weight

Compilation practices Reference period

Special Data Dissemination Standard, SDDS

Weight period



## 20. Base weight

**Definition:** The weights of a weighting system for an index number computed

according to the information relating to the base period instead, for

example, of the current period.

Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Base period

Index number

Weight

#### 21. Base year

See "Base period"

#### 22. Basic data

See "Source data"

#### 23. Benchmark

**<u>Definition</u>**: A recognised standard that forms the basis for comparison.

**Context:** In quality improvement lexicon, a benchmark is a best in class achievement.

This achievement then becomes the reference point or recognized standard

of excellence against which similar processes are measured.

Benchmark data is a recognised standard data set against which other data

sets are compared.

**Sou<u>rce</u>**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** 

# 24. Benchmarking

<u>Definition:</u> Comparing data, metadata or processes against a recognised standard.

<u>Context:</u> Benchmarking may refer, for instance, to the case where there are two



sources of data for the same target variable with different frequencies, e.g. quarterly and annual estimates of value-added from different sources. Benchmarking is generally done retrospectively, as annual benchmark data are available some time after quarterly data. Benchmarking does have a forward-looking element however, in that the relationship between benchmark and indicator data is extrapolated forward to improve quarterly estimates for the most recent periods for which benchmark data are not yet available (Maitland-Smith, F, "Use of Benchmark Data to Align or Derive Quarterly/Monthly Estimates", paper presented at the June 2002 meeting of the OECD Short-term Economic Statistics Working Party, Paris).

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Interpolation

#### 25. Bias

**<u>Definition</u>**: An effect which deprives a statistical result of representativeness by

systematically distorting it, as distinct from a random error which may distort

on any one occasion but balances out on the average.

**Context:** The bias of an estimator is the difference between its mathematical

expectation and the true value it estimates. In the case it is zero, the

estimator is said to be unbiased.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink:** 

Related Terms: Accuracy

#### 26. Bilateral exchange

**<u>Definition</u>**: Exchange of data and/or metadata between a sending organisation and a

receiving organisation where all aspects of the exchange process are agreed between counterparties, including the mechanism for exchange of data and metadata, the formats, the frequency or schedule, and the mode

used for communications regarding the exchange.

**Context:** Apart from bilateral exchange, the SDMX initiative identifies two other basic

forms of exchange of statistics and metadata between organisations, i.e.

multilateral exchange and data-sharing exchange.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Data exchange

Data sharing

Multilateral exchange



#### 27. Break

See "Time series break"

#### 28. Category

**<u>Definition</u>**: The generic term for items at any level within a classification.

**Context:** Typical classification levels are: tabulation categories, sections,

subsections, divisions, subdivisions, groups, subgroups, classes and subclasses. Classification categories are usually identified by codes (alphabetical or numerical) which provide both a unique identifier for each category and denote their place within the hierarchy. They contain elements

which are subsets of the classification to which they belong, such as activities, products, types of occupations, types of education, etc.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

**Related Terms**: Category Scheme

Classification Structure

#### 29. Category Scheme

**Definition:** Scheme made up of a hierarchy of categories, which may include any type

of useful classification for the organization of data and metadata.

**Context:** In SDMX, the category scheme is an artefact for organising categories

which themselves link to dataflow definition or metadataflow definition.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Category

Classification
Dataflow definition
Metadataflow definition

#### 30. Census

**Definition:** A survey conducted on the full set of observation objects belonging to a

given population or universe.

**Context:** A census is the complete enumeration of a population or groups at a point

in time with respect to well defined characteristics: for example, Population, Production, Traffic on particular roads. In some connection the term is associated with the data collected rather than the extent of the collection so



that the term sample census has a distinct meaning. The partial enumeration resulting from a failure to cover the whole population, as distinct from a designed sample enquiry, may be referred to as an "incomplete census". (The International Statistical Institute, "The Oxford Dictionary of Statistical Terms", edited by Yadolah Dodge, Oxford University Press, 2003).

Specific types of censuses include:

Register-based censuses - the enumeration of a population through the use of data from one or more registers rather than a statistical survey.

Rolling census - the enumeration of population over a period of time using multiple waves of data collection, each of which covers a proportion of that

population.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European

Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Observation

Sample

Statistical population

Survey

#### 31. Chain index

**<u>Definition</u>**: An index number in which the value in any given period is related to a base

in the previous period, as distinct from one which is related to a fixed base.

**Context:** The comparison of non-adjacent periods is usually made by multiplying

consecutive values of the index numbers, which, as it were, form a chain

from one period to another.

In practice chain index numbers are usually formed from weighted average of link-relatives, namely the values of magnitudes for a given period divided

by the corresponding values in the previous period.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

Related Terms: Index type

#### 32. Characteristic

**Definition:** An abstraction of a property of an object or of a set of objects.

**Context:** Essential characteristic is a characteristic which is indispensable to

understanding a concept [ISO 1087-1:2000]

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink:** 



**Related Terms**: Aggregated data

Concept Data

ISO/IEC 11179

Object

Statistical concept

Statistical subject-matter domain

Time series
Statistical variable

#### 33. Civil Status

**Definition:** Legal, conjugal status of each individual in relation to the marriage laws or

customs of the country.

**Context:** The civil status is often referred to as marital status and represented

through codes of the respective code list.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 34. Clarity

**<u>Definition</u>**: The extent to which easily comprehensible metadata are available, where

these metadata are necessary to give a full understanding of statistical

data.

**Context:** Clarity is sometimes referred to as "interpretability". It refers to the data

information environment: whether data are accompanied by appropriate metadata, including information on their quality, and the extent to which

additional assistance is provided to users by data providers.

In the European Statistics Code of Practice, clarity is strictly associated to accessibility to form one single quality criteria: "accessibility and clarity".

Source: SDMX (2009)

**Hyperlink**:

Related Terms: Accessibility

#### 35. Class

**<u>Definition</u>**: A description of a set of objects that share the same attributes, operations,

methods, relationships, and semantics.

Context:

**Source:** [ISO/IEC 19501-1:2001, 2.5.2.9] in ISO/IEC FDIS 11179-1 "Information

technology - Metadata registries - Part 1: Framework", September 2004

<u>Hyperlink</u>: http://metadata-standards.org/11179/#11179-1



**Related Terms**: Attribute

ISO/IEC 11179

Object

#### 36. Classification

**<u>Definition</u>**: A set of discrete, exhaustive and mutually exclusive observations, which

can be assigned to one or more variables to be measured in the collation

and/or presentation of data.

<u>Context</u>: The Neuchâtel terminology model states that the term classification is

normally used to denote one of the following concepts: a. The general idea of assigning statistical units to categories representing the values of a certain variable, b. The general concept of a structured list of mutually exclusive categories, each of which describes a possible value of the classification variable. Such a structured list may be linear or hierarchically structured. A linear classification is a list of categories, which are all at one and the same level (e.g. the ISO 3166 country code list, or a classification of marital status). In a hierarchical classification the categories are arranged in a tree-structure with two or more levels, where each level contains a set of mutually exclusive categories. The items of each level but the highest (most aggregated) are aggregated to the nearest higher level. In common usage the term classification often implies a hierarchical classification, c. One particular structured list of mutually exclusive categories, which is named, has a certain stability and normative status, and is valid for a given period of time (e.g. ISIC Rev. 1). d. One particular named set of several structured lists of mutually exclusive categories, which are consecutive over time and describe the possible values of the same variable (e.g. ISIC). The distinction between concepts c. and d. above, although seldom made explicit, is particularly crucial in any systematic register of classifications or in the development of a classification database. (Neuchâtel Group, "Neuchâtel Terminology: Classification database object types and their

attributes - Version 2", September 2002).

The terms "classification" and "nomenclature" are often used interchangeably, despite the definition of a "nomenclature" being narrower than that of a "classification". The structure of classification can be either hierarchical or flat. Hierarchical classifications range from the broadest level (e.g. division) to the detailed level (e.g. class). Flat classifications (e.g. sex

classification) are not hierarchical.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

<u>Hyperlink:</u> http://unstats.un.org/unsd/class/family/glossary\_short.htm

**Related Terms:** Analytical unit

Category

Category scheme Classification system Classification unit Classification version Disaggregation Maintenance agency Nomenclature

Observation



Observation unit Standard classification Statistical unit Taxonomy

#### 37. Classification system

**<u>Definition</u>**: Arrangement or division of objects into groups based on characteristics

which the objects have in common.

**Context:** The definition entails the description of the classification being used and

how this conforms to internationally agreed standards, guidelines, or good practices. It also refers to the description of deviations of the classification system compared to statistical standards, guidelines, or good practices,

when relevant.

Examples of international classifications are ISCO (International Standard Classification of Occupations), ISIC (the United Nations International Standard Industrial Classification of All Economic Activities), NACE (Statistical Classification Of Economic Activities) and NUTS (Nomenclature

of Territorial Units for statistics).

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Classification

#### 38. Classification unit

**Definition:** The basic unit to be classified in the classification.

**Context:** For instance, in an activity classification, the classification unit would be the

establishment or enterprise, while in an occupational classification it will be

the job.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.asp

Related Terms: Classification

#### 39. Classification version

**<u>Definition</u>**: List of mutually exclusive categories representing the version-specific

values of the classification variable.

**Context:** A classification version has a certain normative status and is valid for a

given period of time. A new version of a classification differs in essential ways from the previous version. "Essential" changes are changes that alter the borders between categories, i.e. a statistical object/unit may belong to different categories in the new and the older version. "Border" changes may



be caused by creating or deleting categories, or moving a part of a category to another. The addition of case law, changes in explanatory notes or in the

titles do not lead to a new version.

Source: Neuchatel Group, "Neuchatel Terminology: Classification database object

types and their attributes - Version 2", September 2002

**Hyperlink**:

**Related Terms**: Classification

Institutional unit

#### 40. Code

**<u>Definition</u>**: A language-independent set of letters, numbers or symbols that represent a

concept whose meaning is described in a natural language.

**Context:** A code normally consists of one or more alphabetic, numeric or

alpha/numeric characters.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Code list

Coding Level

#### 41. Code list

**Definition:** A predefined list from which some statistical coded concepts take their

values.

Context:

Source: SDMX (2009)

**Hyperlink:** 

Related Terms: Code

Coding

Concept scheme Dimension GESMES/TS Keyword

Statistical concept Structural definition

# 42. Coding

**Definition:** The process of converting verbal or textual information into codes

representing classes within a classification scheme, to facilitate data

processing, storage or dissemination.



Context:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Code

Code list Coding error

#### 43. Coding error

**Definition:** The assignment of an incorrect code to a data item

**Context:** 

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Coding

#### 44. Coherence

**<u>Definition</u>**: Adequacy of statistics to be combined in different ways and for various

uses.

**Context:** When originating from different sources, and in particular from statistical

surveys using different methodology, statistics are often not completely identical, but show differences in results due to different approaches, classifications and methodological standards. There are several areas where the assessment of coherence is regularly conducted: between provisional and final statistics, between annual and short-term statistics, between statistics from the same socio-economic domain, and between

survey statistics and national accounts.

The concept of coherence is closely related to the concept of comparability between statistical domains. Both coherence and comparability refer to a data set with respect to another. The difference between the two is that comparability refers to comparisons between statistics based on usually unrelated statistical populations and coherence refers to comparisons between statistics for the same or largely similar populations.

Coherence can be generally broken down into "Coherence - cross domain" and "Coherence - internal".

Users should be aware that, in the Data Quality Assessment Framework of the International Monetary Fund, the term "consistency" is used for indicating "logical and numerical coherence". In that framework, "internal consistency" and "intersectoral and cross-domain consistency" can be mapped to "internal coherence" and "cross-domain coherence"

respectively.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Comparability



Consistency Data confrontation

#### 45. Collection

See "Data collection"

#### 46. Comment

**Definition:** Supplementary descriptive text which can be attached to data or metadata.

Context: In SDMX messages, a comment may contain a descriptive text which can

be attached to an agency, provision agreement, dataflow, data set, group,

time series, or observation.

A list of ID broken down by attachment level is therefore needed:

COMMENT\_AGENCY, COMMENT\_AGR, COMMENT\_DFL,

COMMENT DSET, COMMENT GRP, COMMENT TS, COMMENT OBS.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 47. Comparability

The extent to which differences between statistics can be attributed to **Definition:** differences between the true values of the statistical characteristics.

Context: Comparability aims at measuring the impact of differences in applied statistical concepts and definitions on the comparison of statistics between

geographical areas, non-geographical dimensions, or over time.

Comparability of statistics, i.e. their usefulness in drawing comparisons and contrast among different populations, is a complex concept, difficult to assess in precise or absolute terms. In general terms, it means that

statistics for different populations can be legitimately aggregated, compared and interpreted in relation to each other or against some common standard. Metadata must convey such information that will help any interested party in evaluating comparability of the data, which is the result of a multitude of factors.

In some quality frameworks, for instance in the European Statistical Code of Practice, comparability is strictly associated with the coherence of statistics.

The concept can be further broken down into:

- (a) Comparability geographical, referring to the degree of comparability between statistics measuring the same phenomenon for different geographical areas.
- (b) Comparability over time, referring to the degree of comparability between two or more instances of data on the same phenomenon measured at different points in time.



(c) Comparability between domains, referring to the comparability between different survey results which target similar characteristics in different

statistical domains.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Coherence

Statistical unit

#### 48. Compilation

See "Data compilation"

#### 49. Compilation practices

See "Data compilation"

#### 50. Compiling agency

**Definition:** The organisation compiling the data being reported.

**Context:** The dimension is needed as two agencies might be compiling the exact

same data but using different sources or concepts (the latter would be partially captured by the dimensions). The provider ID may be not sufficient, as one provider could disseminate the data compiled by different compiling

agencies.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 51. Completeness

See "Relevance"

# 52. Computer Assisted Interviewing, CAI

**<u>Definition</u>**: The use of the computer during interviewing.

**Context:** Any contradictory data can be flagged by edit routines and the resulting

data can be immediately adjusted by information from the respondent. An added benefit is that data capture (key-entry) is occurring at interview time.



CAI assists the interviewer in the wording of questions and tailors

succeeding questions based on previous responses. CAI has been mainly used in "Computer-Assisted Telephone Interviews" (CATI) or "Computer-

Assisted Personal Interviewing" (CAPI).

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** http://amrads.jrc.cec.eu.int/k-base/glossary/glossALL.htm

**Related Terms:** 

## 53. Concept

**<u>Definition</u>**: A unit of knowledge created by a unique combination of characteristics.

**Concepts** are abstract summaries, general notions, knowledge, etc., of a

whole set of behaviours, attitudes or characteristics which are seen as

having something in common. Concepts are used to assist in presenting/conveying precise meaning, categorising, interpreting, structuring and making sense of phenomena (such as classifications) ("United Nations Glossary of Classification Terms" prepared by the Expert Group on International Economic and Social Classifications, unpublished on

paper, available at:

http://unstats.un.org/unsd/class/family/glossary\_short.htm).

A semantic link among two or more concepts is a concept relationship. A description of the type of relationship among two or more concepts is a concept relationship type description. (ISO/IEC International Standard 11179-3 "Information technology-Metadata registries (MDR)-Part 3:

Registry metamodel and basic attributes", February 2003).

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

Related Terms: Analytical framework

Characteristic

Data structure definition

Definition Dimension ISO/IEC 11179

Metadata structure definition

Ontology

Statistical concept

Statistical subject-matter domain

Structural definition
Terminological system

# 54. Concept Scheme

**Definition:** Maintained list of concepts that are used in data structure definitions or

metadata structure definitions.



**Context:** Structural definitions of both data and reference metadata associate specific

statistical concepts with their representations, whether textual, coded, etc. In SDMX version 2.0, these concepts are taken from a "concept scheme" which is maintained by a specific agency. Concept schemes group a set of concepts, provide their definitions and names, and allow for semantic relationships to be expressed, when some concepts are specifications of others. It is possible for a single concept scheme to be used both for data structures and metadata structures. A core representation of each concept can be specified (e.g. a code list, or other representations such as "date").

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Code list

Data structure definition Metadata structure definiton

Reference metadata

SDMX, Statistical data and metadata exchange

Statistical concept Structural definition

#### 55. Conceptual data model

**Definition:** A data model that represents an abstract view of the real world. A

conceptual model represents the human understanding of a system.

Context:

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: Data model

ISO/IEC 11179

# 56. Conceptual domain

**<u>Definition</u>**: Concept that expresses its valid instance meanings or description.

**Context:** In ISO/IEC 11179, the value meanings in a conceptual domain may either

be enumerated or expressed via a description. Enumerated conceptual domain is a conceptual domain that is specified by a list of all its value

meanings.

"Non-enumerated" is a conceptual domain that is not specified by a list of all valid value meanings. "Non-enumerated conceptual domain description" is a description or specification of a rule, reference, or range for a set of all

Value Meanings for the Conceptual.

"Conceptual domain relationship" is a relationship among two or more conceptual domains. "Conceptual domain relationship type description" is a description of the type of relationship among two or more Conceptual domains. "Conceptual domain representation" is a relationship between a

Conceptual domain and a Value domain.



Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: Data model

ISO/IEC 11179 Permissible value Unit of measure Value meaning

#### 57. Confidential data

**<u>Definition</u>**: Data which are subject to confidentiality clauses.

**Context:** The data collected by many national statistical agencies are subject to

national rules regarding confidentiality. The two main reasons for declaring data to be confidential are: a) too few units in a cell; b) dominance of one or two units in a cell. The limits of what constitutes "too few" or "dominance"

vary between statistical domains.

In the European Union, confidential data is defined in Article 13 of Council

Regulation No 322/97, as:

1. Data used by the national authorities and the Community authority for the production of Community statistics shall be considered confidential when they allow statistical units to be identified, either directly or indirectly, thereby disclosing individual information. To determine whether a statistical unit is identifiable, account shall be taken of all the means that might reasonably be used by a third party to identify the said statistical unit.

2. By derogation from paragraph 1, data taken from sources which are available to the public and remain available to the public at the national authorities according to national legislation, shall not be considered

confidential.

**Source**: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

**Related Terms:** Confidentiality

# 58. Confidentiality

**<u>Definition</u>**: A property of data indicating the extent to which their unauthorised

disclosure could be prejudicial or harmful to the interest of the source or

other relevant parties.

**Context:** Confidentiality refers to a property of data with respect to whether, for

example, they are public or their disclosure is subject to restrictions. For instance, data allowing the identification of a physical or legal person, either directly or indirectly, may be characterised as confidential according to the relevant national or international legislation. Unauthorised disclosure of data that are restricted or confidential is not permitted and even legislative measures or other formal provisions may be used to prevent disclosure.



Often, there are procedures in place to prevent disclosure of restricted or confidential data, including rules applying to staff, aggregation rules when

disseminating data, provision of unit records, etc.

Sensitivity (of information) is sometimes used as a synonym to

confidentiality.

This concept can be broken down into: Confidentiality - policy;

Confidentiality - status; Confidentiality - data treatment.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Access

Confidential data Data security

## 59. Consistency

**Definition:** Logical and numerical coherence.

**Context:** An estimator is called consistent if it converges in probability to its estimand

as sample increases (The International Statistical Institute, "The Oxford Dictionary of Statistical Terms", edited by Yadolah Dodge, Oxford University Press, 2003). Consistency over time, within datasets, and across datasets (often referred to as inter-sectoral consistency) are major aspects of consistency. In each, consistency in a looser sense carries the notion of "at least reconcilable". For example, if two series purporting to cover the same phenomena differ, the differences in time of recording, valuation, and coverage should be identified so that the series can be reconciled. Inconsistency over time refers to changes that lead to breaks in series stemming from, for example, changes in concepts, definitions, and methodology. Inconsistency within datasets may exist, for example, when two sides of an implied balancing statement-assets and liabilities or inflows

two sides of an implied balancing statement-assets and liabilities or inflows and outflows-do not balance. Inconsistency across datasets may exist when, for example, exports and imports in the national accounts do not reconcile with exports and imports within the balance or payments. Within the IMF definition of quality, "consistency" is one of the elements of

"serviceability".

**Source:** International Monetary Fund, "Data Quality Assessment Framework - DQAF

- Glossary", unpublished

Hyperlink:

**Related Terms:** Coherence

Serviceability

#### 60. Consolidation

**<u>Definition</u>**: The process that takes data from different systems, entities (and possibly

formats) and combines that information to create a unified view.

**Context:** Consolidation refers to the elimination, both from uses and resources, of

transactions which occur between units when the latter are grouped and to

the elimination of reciprocal financial assets and liabilities



In the context of fiscal sector data, consolidation provides an indication of the methods used to combine data from separate central government accounts and funds to derive statistics for transactions between the entire central government and any other sector, exclusive of transactions between units within the same coverage of central government, as defined in the Government Finance Statistics Manual.: 1) whether all transactions between units of general government have been eliminated in consolidation is requested; 2) debt issues of one unit of central government that are held by another unit are reported on a consolidated or unconsolidated basis (e.g., central government securities held by the social security fund) are also specified.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Statistical processing

#### 61. Constraint

**Definition:** Specification of what may be contained in a data or metadata set in terms of

the content or, for data only, in terms of the set of key combinations to which specific attributes (defined by the data structure) may be attached.

Context:

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** Attribute

#### 62. Contact

**Definition:** Individual or organisational contact points for the data or metadata,

including information on how to reach the contact points.

**Context:** "Contact" describes contact points for the data or metadata, including how

to reach the contact points.

The main attributes of "contacts" are:

Contact mail address: The mailing address of the contact.

Contact name: The name of the contact.

Contact title: The name of the position held by the contact.

Contact email address: An e-mail address for correspondence with the

contact.

Contect phone number: A telephone number for spoken correspondence. Other detailed attributes (e.g. country code, city code, first name, family name, etc.) can be identified for the purpose of database storage.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: ISO/IEC 11179

SDMX, Statistical Data and Metadata Exchange



#### 63. Context

**<u>Definition</u>**: Circumstance, purpose, and perspective under which an object is defined or

used.

**Context:** A context description language is the identifier of the language used in the

context description (ISO/IEC FCD 11179-3, "Registry Metamodel, Final Committee Draft", 2001). The administration record for a context is a context administration record. The textual description of the context is a context description. The identifier of the language used in the context description is a context description language identifier (ISO/IEC

International Standard 11179-3 "Information technology-Metadata registries (MDR)-Part 3: Registry metamodel and basic attributes", February 2003).

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: Administered item

ISO/IEC 11179

#### 64. Cost and burden

**Definition:** Cost associated with the collection and production of a statistical product,

and burden on respondents.

**Context:** The cost is associated with a statistical product and can be financial, human

or time-related. It may consist of staff costs, data collection costs and other

costs related to reporting obligations.

The burden is often measured by costs for the respondents (businesses, institutions, households, individuals) imposed by a statistical obligation. The overall burden of delivering the information depends on: a) the number of respondents; b) the average time required to provide the information, including time spent after receipt of the questionnaire ("recontact time"); and

c) the hourly cost of a respondent's time.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

## 65. Counterpart reference area

**Definition:** The secondary area, as opposed to the reference area, to which the

measured data is in relation.

**Context:** The "counterpart area" (also known as "vis-a-vis area") is related to

statistics on foreign trade, migration or other domains. It determines, from the point of view of the reporting country, the corresponding area to which the economic or other flows are related to (for instance, in statistics on imports, the counterpart reference area is the area of origin of the goods).



Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Reference area

### 66. Country identifier

**<u>Definition</u>**: An identifier specifying a geopolitical area.

Context:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Identifier

ISO/IEC 11179

## 67. Coverage

**<u>Definition</u>**: The definition of the population that statistics aim to cover.

**Context:** The term "coverage" encompasses the descriptions of key dimensions

delimiting the statistics produced, e.g. geographical, institutional, product, economic sector, industry, occupation, transaction, etc., as well as relevant

exceptions and exclusions.

The term Coverage describes the scope of the data compiled, rather than

the characteristics of the survey.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Coverage error

Coverage ratio

Data

Geographical coverage

Scope

Special Data Dissemination Standard, SDDS

### 68. Coverage error

**Definition:** Error caused by a failure to cover adequately all components of the

population being studied, which results in differences between the target

population and the sampling frame.

**Context:** Coverage errors include over-coverage, under-coverage and

misclassification. Incomplete sampling frames often result in coverage

errors.



**Source:** Statistical Office of the United Nations, "Handbook of Household Surveys,

Revised Edition", (para. 8.3), Studies in Methods, Series F, No. 31, United

Nations, New York, 1984

**Hyperlink**:

**Related Terms**: Coverage

Statistical population

## 69. Coverage ratio

**<u>Definition</u>**: A measure of the extent to which observations designated as primary to a

particular category are undertaken by units primarily involved with the

observations related to that category.

**Context:** In industry statistics, the coverage ratio is the output of goods and services

characteristic of a particular industry in proportion to the total output of the

same goods and services by the economy as a whole.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

Related Terms: Coverage

Observation

#### 70. Creation date

**Definition:** The date on which the record, data or metadata item was created.

**Context:** 

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Administered item

Date

Date of last change ISO/IEC 11179

## 71. Credibility

**Definition:** Confidence that users place in statistical products based simply on their image of the data

producer, i.e., the brand image.

**Context:** Confidence by users is built over time. One important aspect is trust in the objectivity of the

data. This implies that the data are perceived to be produced professionally in accordance with appropriate statistical standards, and that policies and practices are transparent. For example, data are not manipulated, nor their release timed in response to political pressure.

Credibility is determined in part by the integrity of the production process. Principle 2 of the



Fundamental Principles of Official Statistics states: to retain trust in official statistics, the statistical agencies need to decide according to strictly professional considerations, including

scientific principles and professional ethics, on the methods and procedures for the

collection, processing, storage and presentation of statistical data.

**Source:** OECD, "Quality Framework for OECD Statistics", Paris, June 2002

(http://www.oecd.org/document/43/0,2340,en\_2649\_34257\_21571947\_119820\_1\_1\_1,00.ht

ml)

**Hyperlink:** http://www.oecd.org/document/43/0,2340,en\_2649\_34257\_21571947\_119820\_1\_1\_1,00.htm

**Related Terms:** 

## 72. Cross-domain Concepts

**<u>Definition</u>**: List of standard concepts, covering structural and reference metadata,

which should be used in several statistical domains wherever possible to enhance possibilities of the exchange of data and metadata between

organisations.

**Context:** Within SDMX, cross-domain concepts are envisaged to cover various

elements describing statistical data and their quality. When exchanging statistics, institutions can select from a standard set of content-oriented concepts. The list of concepts and their definitions reflects recommended practices and can be the basis for mapping between internal systems when

data and metadata are exchanged or shared between and among

institutions.

**Source:** SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Reference metadata

SDMX, Statistical Data and Metadata Exchange

Structural metadata

## 73. Currency

**Definition:** Monetary denomination of the object being measured.

**Context**:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

## 74. Cut-off survey

**Definition:** A survey in which all the entities falling above or below a threshold

determined according to one or more characteristics of those entities are

either included or excluded



Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Cut-off threshold

Survey

#### 75. Cut-off threshold

**<u>Definition</u>**: A threshold used to exclude entities from the target population (and hence

from the frame).

**Context:** Entities may be excluded from the target population using a cut-off

threshold for various reasons, for example:

- they contribute very little to the resulting statistics;

- the cost / burden of including them outweighs the benefits;

- they are out of scope (e.g. large enterprises in a survey of SMEs)

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Cut-off survey

Statistical population Target population

#### **76.** Data

<u>Definition</u>: Characteristics or information, usually numerical, that are collected through

observation.

**Context:** Data are the physical representation of information in a manner suitable for

communication, interpretation, or processing by human beings or by automatic means (Economic Commission for Europe of the United Nations (UNECE), "Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000).

Statistical data are data derived from either statistical or non-statistical sources, which are used in the process of producing statistical products.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

**Related Terms:** Characteristic

Coverage Data analysis Data presentation

Metadata Periodicity

Special Data Dissemination Standard, SDDS

**Timeliness** 



Access

Administrative source

### 77. Data analysis

**Definition:** The process of transforming raw data into usable information, often

presented in the form of a published analytical article, in order to add value

to the statistical output.

Context:

**Source:** Statistics Canada, "Statistics Canada Quality Guidelines", 4th edition,

October 2003, page 70

**Hyperlink:** http://www.statcan.ca/english/freepub/12-539-XIE/12-539-XIE03001.pdf.

Related Terms: Data

#### 78. Data attribute

See "Attribute"

## 79. Data capture

**Definition:** The process by which collected data are put into a machine-readable form.

**Context:** Elementary edit checks are often performed in sub-modules of the software

that does data capture.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

<u>Hyperlink</u>: http://www.unece.org/stats/publications/editingglossary.pdf

**Related Terms:** 

## 80. Data checking

**<u>Definition</u>**: Activity through which the correctness conditions of the data are verified.

**Context:** It also includes the specification of the type of the error or condition not met,

and the qualification of the data and its division into the "error free" and "erroneous data". Data checking may be aimed at detecting error-free data

or at detecting erroneous data.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

<u>Hyperlink</u>: http://www.unece.org/stats/publications/editingglossary.pdf



**Related Terms:** Data reconciliation

Graphical data editing

Macro editing

#### 81. Data collection

**<u>Definition</u>**: Systematic process of gathering data for official statistics.

**Context:** There are a number of data collection methods used for official statistics,

including computer-aided personal or telephone interview CAPI/CATI, mailed questionnaires, electronic or internet questionnaires and direct observation. The data collection may be exclusively for statistical purposes,

or primarily for non-statistical purposes.

Descriptions of data collection methods should include the purpose for

which the data were collected, the period the data refer to, the

classifications and definitions used, and any constraints related to further

use of these data.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

## 82. Data compilation

**Definition:** Operations performed on data to derive new information according to a

given set of rules.

**Context:** "Data compilation" refers to the description of statistical procedures used for

producing intermediate data and final statistical outputs. Data compilation covers, among other things, the use of weighting schemes, methods for

imputing missing values or source data, statistical adjustment,

balancing/cross-checking techniques and relevant characteristics of the

specific methods applied.

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** 

## 83. Data compiling agency

see "Compiling agency"



### 84. Data confrontation

**Definition:** The process of comparing data that has generally been derived from

different surveys or other sources, especially those of different frequencies, in order to assess and possibly improve their coherency, and identify the

reasons for any differences.

**Context:** Such data may not be coherent for a number of reasons including the use

of different data item definitions, classifications, scope, reference period,

etc.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Coherence

Data reconciliation

### 85. Data consumer

**<u>Definition</u>**: Organisation which uses data as input for further processing.

**Context:** An organisation can play a number of organisation roles. In the SDMX

information model, three roles are identified at present: Data Provider; Data Consumer; Maintenance Agency. Data Consumer also embraces the

activity of metadata provision.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Data provider

Maintenance agency Organisation role

## 86. Data dissemination agency

**Definition:** The organisation disseminating the data.

Context:

Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

**Related Terms:** 

## 87. Data editing

**Definition:** Activity aimed at detecting and correcting errors, logical inconsistencies and

suspicious data.

**Context:** Editing techniques refer to a range of procedures and processes used for

detecting and handling errors in data, also aiming at avoiding their future repetition. An "edit" is the correction of an error in data. An "editing rule" is



the specification of the conditions under which edits are made.

Examples of different techniques include the different approaches to editing such as micro-editing/ macro-editing, input/output editing, or to the various tools available for editing such as graphical editing, interactive editing, etc.

Edit types refer to the actual nature of edits applied to data during input or output processing. Examples include:

- logical edits, to ensure that two or more data items do not have contradictory values;
- consistency edits, to ensure that precise and correct arithmetic relationships exists between two or more data items;
- range edits, identifying whether or not a data item value falls inside a determined acceptable range;
- variance edits, looking for suspiciously high variances at the output edit stage.

Micro-editing and macro-editing may be distinguished in order to calculate rate of edits. Edit types may also refer to whether these edits are fatal or query type, i.e. whether they detect errors with certainty or point to suspicious data items.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/editingglossary.pdf

Related Terms: Data validation

Graphical data editing

Macro editing Micro editing

#### 88. Data element

**<u>Definition</u>**: A unit of data for which the definition, identification, representation, and

permissible values are specified by means of a set of attributes.

<u>Context</u>: "Data element administration record" is the Administration record for a Data

element. "Data element precision" is the degree of specificity for a Data element. "Data element representation" is the relationship between a Data element and its Value domain. "Data element representation class" is the class of representation of a Data element. (ISO/IEC International Standard 11179-3 "Information technology - Metadata registries-Part 3: Registry

metamodel and basic attributes", February 2003)

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

Hyperlink:

Related Terms: ISO/IEC 11179

Keyword

Related data reference

Thesaurus



## 89. Data exchange

**Definition:** The process of sending and receiving data.

**Context:** Data exchange should take place in such a manner that the information

content or meaning assigned to the data is not altered during the

transmission.

"Data exchange context" is the framework in which two or more partners agree to exchange one or more identified sets of data (exchanged time series, ETS) and related attributes, and use one or more data structure definitions to serve this requirement, possibly on the basis of a formal or

informal agreement.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Attribute

Bilateral exchange Data sharing

Data structure definition

Electronic data interchange, EDI

Gateway exchange GESMES/TS

Multilateral exchange Statistical message

### 90. Dataflow definition

**<u>Definition</u>**: A structure which describes, categorises and constrains the allowable

content of a data set that providers will supply for different reference

periods.

**Context:** In SDMX, data sets are reported or disseminated according to a data flow

definition. The data flow definition identifies the data structure definition and may be associated with one or more subject matter domains. This facilitates

the search for data according to organised category schemes.

A "data flow", in this context, is an abstract concept of the data sets, i.e. a structure without any data. While a data structure definition defines dimensions, attributes, measures and associated representation that comprise the valid structure of data and related metadata contained in a data set, the dataflow definition associates a data structure definition with one or more category. This gives a system the ability to state which data sets are to be reported for a given category and which data sets can be reported using the data structure definition. The dataflow definition may also have additional metadata attached, defining qualitative information and constraints on the use of the data structure definition, in terms of reporting periodicity or specifying the subset of codes to be used in a dimension.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Attribute

Category scheme Metadataflow definition



### 91. Data identifier

See "Originator Data identifier"

## 92. Data imputation

See "Imputation"

## 93. Data integration

**<u>Definition</u>**: The process of combining data from two or more sources to produce

statistical outputs.

**Context:** Data integration can be at the micro-level, where it is often referred to as

matching, or at the macro-level.

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org

**Related Terms:** 

#### 94. Data interchange

See "Data exchange"

### 95. Data model

**Definition:** A graphical and/or lexical representation of data, specifying their properties,

structure and inter-relationships.

**Context:** The UN defines a data model as a user's conceptual design of a data set

that describes the database entities and their relations to one another (United Nations Department of Economic and Social Affairs, "Handbook on Geographic Information Systems and Digital Mapping", Studies in Methods,

Series F, No. 79, Annex VI - Glossary, New York, 2000)

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: Conceptual data model

Conceptual domain ISO/IEC 11179 Metamodel



## 96. Data presentation

**Definition:** Description of the disseminated data.

**Context:** Data can be displayed to users as tables, graphs or maps. According to the

Fundamental Principles of Official Statistics, the choice of appropriate presentation methods should be made in accordance with professional considerations. Data presentation includes the description of the dataset disseminated with the main variables covered, the classifications and breakdowns used, the reference area, a summary information on the time

period covered and, if applicable, the base period used.

This concept can be broken down into: "data presentation: description" and

"data presentation: disseminated detail".

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Data

Data set

SDMX, Statistical Data and Metadata Exchange

## 97. Data processing

**<u>Definition</u>**: The operation performed on data in order to derive new information

according to a given set of rules.

**Context:** The processing site refers to the organisation, institute, agency, etc,

responsible for undertaking the collection, tabulation, manipulation and preparation of data and metadata output. The processing site may or may not also refer to the physical location(s) at which such activities are carried out. A processing system embodies both manual and automated systems used by agencies to despatch questionnaires, collect, compile, manipulate, analyse and disseminate data and metadata output. Such systems

therefore cover all stages of the statistical processing cycle.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Compilation practices

Processing error Statistical processing

### 98. Data provider

**<u>Definition</u>**: Organisation which produces data or metadata.

Context:

**Source**: SDMX (2009)



**Hyperlink:** http://www.sdmx.org/

Related Terms: Access

Data provider series key

Metadata

## 99. Data provider series key

**Definition:** Identifier used by the data providers systems to distinguish between data

series

**Context:** 

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Data provider

Identifier Kev

Time series

#### 100. Data reconciliation

**<u>Definition</u>**: The process of adjusting data derived from two different sources to remove,

or at least reduce, the impact of differences identified.

**Context:** Editing and reconcilation may involve fixing errors or adopting alternative

sources and methods that are aimed at improving the process of reviewing

or understanding data.

This may entail the reconciliation of stocks and transactions data;

reconciliation of reported data with money and banking statistics, custodian data; differences with partner data or preshipment inspection data; the treatment of differences between GDP compiled for the production

approach and GDP compiled from the expenditure approach. It is a special

kind of editing done after initial compilation.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Compilation practices

Data checking
Data confrontation

Special Data Dissemination Standard, SDDS

Statistical processing

### 101. Data revision

**<u>Definition</u>**: Any change in a value of a statistic released to the public by an official

statistical agency.



#### Context:

Preliminary data are revised when more and better source data become available. "Data revision" describes the policy and practice for identifying the revision status of the data, as well as the availability of revision studies and analyses.

This concept can be broken down into: "Data revision - policy"; "Data revision - practice": "Data revision - studies".

"Revision policy" refers to the policy aimed at ensuring the transparency of disseminated data. The general guidelines for handling data revisions applied by a data providing agency should be described.

"Revision practice" refers to documentation regarding the source data used and the way they are adjusted. It also describes the revision status of available data. Data may also be subject to regular or ad hoc revisions as a result of the introduction of new classifications, compilation frameworks and methodologies which result in the compilation of historical data that replaces previously released data.

"Revision studies" refers to the information about available studies and analyses on data revision. These studies can contain mean revision and revision variance in estimates or other quantitative measures of the effects of revisions.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Compilation practices

## 102. Data security

**Definition:** The measures taken to prevent unauthorized access or use of data.

Context:

**Source**: Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European

Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** Confidentiality

Disclosure analysis

#### 103. Data set

**<u>Definition</u>**: Any organised collection of data.

**Context:** Within SDMX, a data set can be understood as a collection of similar data,

sharing a structure, which covers a fixed period of time. A data set is any permanently stored collection of information usually containing either case level data, aggregation of case level data, or statistical manipulations of either the case level or aggregated survey data, for multiple survey instances (United States Bureau of the Census, Software and Standards Management Branch, Systems Support Division, "Survey Design and Statistical Methodology Metadata", Washington D.C., August 1998, Section



3.3.7, page 14). The terms database and data set are often used

interchangeably. A logical collection of values or database objects relating to a single subject (United Nations Department of Economic and Social Affairs, "Handbook on Geographic Information Systems and Digital Mapping", Studies in Methods, Series F, No. 79, Annex VI - Glossary, New

York, 2000).

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/editingglossary.pdf

**Related Terms:** Aggregation

Data set identifier
Data presentation
Data structure definition

GESMES/CB Measure Sibling group Time series

#### 104. Data set identifier

**<u>Definition</u>**: Sequence of characters identifying the data set with which it is associated.

**Context:** 

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Data set

Identifier

Originator data identifier

### 105. Data sharing

**<u>Definition</u>**: Exchange of data and/or metadata in a situation involving the use of open,

freely available data formats and where process patterns are known and

standard.

**Context:** Apart from data-sharing, SDMX identifies two other basic forms of

exchange of statistics and metadata between organisations, i.e. bilateral

exchange and multilateral exchange.

In data sharing exchange, any organization or individual can use any counterparty's data and metadata (assuming they are permitted access to it). This model requires no bilateral agreement, but only requires that data

and metadata providers and consumers adhere to the standards.

Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

Related Terms: Bilateral exchange

Data exchange Multilateral exchange



#### 106. Data status

**Definition:** Whether the data initially disseminated to the public are final data or

preliminary and therefore subject to revision.

**Context:** The data identified as meeting the standard may be preliminary and subject

to revision and designated as such.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Special Data Dissemination Standard, SDDS

## 107. Data storage

**Definition:** The means of recording or archiving data so that they are available for

future use.

**Context:** The Fundamental Principles of Official Statistics require that decisions on

data storage are made in accordance with strictly professional

considerations.

Source: SDMX (2009)

**Hyperlink:** 

**Related Terms:** 

#### 108. Data structure definition

**Definition:** Set of structural metadata associated to a data set, which includes

information about how concepts are associated with the measures,

dimensions, and attributes of a data cube, along with information about the

representation of data and related descriptive metadata.

**Context:** In order to exchange statistical information, a central institution has to agree

with its partners about which statistical concepts are necessary for identifying the series (and for use as dimensions) and which statistical concepts are to be used as attributes. These definitions form the data structure definition (also called "key family" in Gesmes/TS). The coded statistical concepts assigned as dimensions in a key structure are called the dimensions of the data structure definition. In addition to the dimensions, each data structure definition assigns a set of statistical concepts that may qualify the statistical information at data set, sibling group, time series or observation level. The statistical concepts used in this way are called

"attributes".

Each data structure definition has the following properties: a) identifier (providing a unique identification within an exchanged time series); b) name (also unique); and c) description (a description of the purpose and domain

covered).



Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms:** Attribute

Concept

Concept scheme Data exchange Data set

Maintenance agency Statistical concept

Structural definition Structural metadata

Structure

## 109. Data type

**<u>Definition</u>**: A set of distinct values characterized by properties of those values and by

operations on those values. [ISO/IEC 11404:1996, 4.11]

**Context:** Datatype annotation is the specifying information to further define the

Datatype.

Datatype description descriptive information to further clarify the Datatype.

Datatype name is a designation for the Datatype.

Datatype scheme reference is a reference identifying the source of the

Datatype specification.

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: ISO/IEC 11179

## 110. Data update

**Definition:** The date on which the data element was inserted or modified in the

database.

**Context:** The data update relates to the date which is registered in the production or

the dissemination database of a data compiling organisation. The modification can imply several actions: data can be updated, verified and validated without change, or deleted. The data update does not necessarily

imply that data are released.

The date of the data update may refer to the last update of the content, or to the latest verification without update of the content, or to the date of dissemination on the web. Correspondingly, this concept can be broken down into: data update - last update; data update - last verification; data

update - last posted.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/



#### **Related Terms:**

#### 111. Data validation

**<u>Definition</u>**: Process of monitoring the results of data compilation and ensuring the

quality of the statistical results.

**Context:** Data validation describes methods and processes for assessing statistical

data, and how the results of the assessments are monitored and made

available to improve statistical processes.

All the controls made in terms of quality of the data to be published or already published are included in the validation process. Validation also takes into account the results of studies and analysis of revisions and how they are used to improve statistical processes. In this process, two dimensions can be distinguished: (i) validation before publication of the

figures and (ii) validation after publication.

This concept can be further broken down into "Data validation: intermediate", "Data validation: output" and "Data validation: source".

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Data editing

#### 112. Date

**Definition:** A time reference.

**Context**:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Creation date

Date of last change

# 113. Date of last change

**<u>Definition</u>**: The date the administered item was last changed.

Context:

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: Administered item

Creation date



Date

ISO/IEC 11179 Time of recording

#### 114. Decimals

The number of digits of an observation to the right of a decimal point. **Definition:** 

Context:

SDMX (2009) Source:

Hyperlink: http://www.sdmx.org/

**Related Terms:** 

### 115. Definition

**Definition:** A statement that represents the concept and the essential nature of the

term.

Context: In classifications, this item refers to the explanation of the concepts

> encompassed in category description and often includes specific examples of what is and is not included in particular categories (United Nations

Glossary of Classification Terms).

According to ISO/IEC International Standard 11179-3 (Registry metamodel and basic attributes) a definition is a "representation of a concept by a descriptive statement which serves to differentiate it from related concepts

[ISO 1087-1:2000, 3.3.1].

Dublin Core Metadata Initiative, DCMI Metadata Terms, 2008 Source:

http://dublincore.org/documents/dcmi-terms **Hyperlink:** 

**Related Terms:** Concept

ISO/IEC 11179

Metadataflow definition Analytical framework

#### 116. Derived data element

**Definition:** Data element derived from other data elements using a mathematical.

logical, or other type of transformation, e.g. arithmetic formula, composition,

and aggregation.

**Context**:

Economic Commission for Europe of the United Nations (UNECE), Source:

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** 



#### 117. Derived statistic

**<u>Definition</u>**: A statistic which is obtained by an arithmetical observation from the primary

observations.

**Context:** In this sense, almost every statistic is "derived". The term is mainly used to

denote descriptive statistical quantities obtained from data which are primary in the sense of being mere summaries of observations, e.g. population figures are primary and so are geographical areas, but

population-per-square-mile is a derived quantity.

Source: Marriott, F.H.C for the ISI, "A Dictionary of Statistical Terms", 5th edition,

Longman Scientific & Technical, New York, 1990

**Hyperlink**:

Related Terms: Observation

#### 118. Dimension

**<u>Definition</u>**: A statistical concept used, in combination with other statistical concepts, to

identify a statistical series or single observations.

Context: In the GESMES/TS context, "dimension" is a coded statistical concept used

(most probably together with other coded statistical concepts) to identify a time series, e.g. a statistical concept indicating a certain economic activity or a geographical reference area. (European Central Bank (ECB), Bank for International Settlement (BIS), Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD),

"GESMES/TS User Guide", Release 3.00, February, 2003; unpublished on

paper)

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Code list

Concept

Dimensionality GESMES/TS

Key

Key structure Statistical concept Time series Unit of measure

## 119. Dimensionality

**<u>Definition</u>**: An expression of measurement without units.

**Context:** A quantity is a value with an associated unit of measure. 32° Fahrenheit, 0°

Celsius, \$100 USD, and 10 reams (of paper) are quantities. Equivalence



between two units of measure is determined by the existence of a quantity preserving one-to-one correspondence between values measured in one unit of measure and values measured in the other unit of measure, independent of context, and where characterizing operations are the same. Equivalent units of measure in this sense have the same dimensionality. The equivalence defined here forms an equivalence relation on the set of all units of measure. Each equivalence class corresponds to a dimensionality.

The units of measure "temperature in degrees Fahrenheit" and

"temperature in degrees Celsius" have the same dimensionality, because for each value measured in degrees Fahrenheit there is a value measured in degrees Celsius with the same quantity, and vice-versa. The same operations may be performed on quantities in each unit of measure. Quantity preserving one-to-one correspondences are the well-known

equations  $C^{\circ} = (5/9)^{*}(F^{\circ} - 32)$  and  $F^{\circ} = (9/5)^{*}(C^{\circ}) + 32$ .

In other words, the equivalence between two units of measure is determined by the existence of an invertible transformation of one set of units to the other. This means that two units of measure have the same dimensionality if there is a function that maps values in one unit of measure

to values into the other.

ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part Source:

1: Framework", March 2004

**Hyperlink:** 

**Related Terms:** Dimension

> ISO/IEC 11179 Unit of measure

## 120. Disaggregation

**Definition:** The breakdown of observations, usually within a common branch of a

hierarchy, to a more detailed level to that at which detailed observations are

taken.

**Context:** With standard hierarchical classifications, statistics for related categories

> can be grouped or collated (aggregated) to provide a broader picture, or categories can be split (disaggregated) when finer details are required and made possible by the codes given to primary observations ("United Nations

Glossary of Classification Terms"; prepared by the Expert Group on

International Economic and Social Classifications).

United Nations Glossary of Classification Terms; prepared by the Expert Source:

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

**Related Terms:** Aggregation

Classification

Compilation practices

Observation

Statistical processing



## 121. Disclosure analysis

**<u>Definition</u>**: The process of protecting the confidentiality of data. It involves limiting the

amount of detailed information disseminated and/or masking data via noise addition, data swapping, generation of simulated or synthetic data, etc.

Context:

Source: United States Bureau of the Census, Software and Standards Management

Branch, Systems Support Division, "Survey Design and Statistical Methodology Metadata", Washington D.C., August 1998, Section 3.3.17,

page 28

**Hyperlink:** http://www.census.gov/srd/www/metadata/metada18.pdf

**Related Terms:** Data security

#### 122. Dissemination

**<u>Definition</u>**: Distribution or transmission of statistical data to users.

**Context:** Dissemination covers all activities by statistical producers aiming at making

data and metadata accessible to users.

For data dissemination, various release media are possible, such as electronic format including the internet, CD-ROM, paper publications, files available to authorised users or for public use; fax response to a special

request, public speeches, press releases.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** Organisation role

Statistical Data and Metadata Exchange, SDMX

#### 123. Dissemination format

**Definition:** Media by which statistical data and metadata are disseminated.

**Context:** A statistical product is a combination of macro-data and metadata packaged

and presented in a specific form for dissemination. "Dissemination format" refers to the various means of dissemination used for making the data available to the public. It includes a description of the various formats available, including where and how to get the information (for instance

 $paper,\,electronic\,publications,\,on\hbox{-line databases}).$ 

This concept can be further broken down into: Microdata access, News

release, Online database, Publications and Other formats.

Micro-data access refers to the information on whether micro-data are also disseminated. It should be stated if micro-data are also disseminated, e.g.

to researchers. Access conditions should be described in short.

News release refers to the regular or ad-hoc press releases linked to the



data. This concept covers press releases or other kind of similar releases linked to data or metadata.

On-line database refers to the Information about an on-line database in which the disseminated data can be accessed. Link to the on-line database where the data are available, with a summary identification of domain names as released on the website, as well as the related access conditions.

Publications refers to the regular or ad-hoc publications in which the data are made available to the public. References to the most important data dissemination done through paper or on-line publications, including a summary identification and information on availability of the publication means.

Other refers to the references to the most important other data dissemination done. Examples of other dissemination formats are analytical publications edited by policy users, etc. This concept also includes "supplementary data", i.e. data not routinely disseminated that are made available to users upon request.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Accessibility

Statistical Data and Metadata Exchange, SDMX

#### 124. Dissemination standard

**Definition:** Guideline or legally-binding prescription developed by international

organisations for guiding the dissemination of statistics to the public.

Context: The formulation of data and metadata dissemination standards entails a

consultation process between international organisations and with member

countries.

An example of a dissemination standard is the Special Data Dissemination Standard (SDDS) guiding members of the International Monetary Fund in the dissemination to the public of comprehensive, timely, accessible, and

reliable economic and financial statistics.

Source: SDMX (2009)

**Hyperlink**:

Related Terms: General Data Dissemination System, GDDS

Special Data Dissemination Standard, SDDS

#### 125. Documentation

**<u>Definition</u>**: Descriptive text used to define or describe an object, design, specification,

instructions or procedure.

Context:

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000



**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** 

## 126. Documentation on methodology

<u>Definition</u>: Descriptive text and references to methodological documents available.

**Context:** "Documentation on methodology" refers to the availability of documentation

related to various aspects of the data, such as methodological documents, summary notes or papers covering concepts, scope, classifications and

statistical techniques.

This concept also includes the "Advance notice of changes in methodology", indicating whether the public is notified before a methodological change affects disseminated data and, if so, how long

before.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Methodology

## 127. Domain groups

**Definition:** Groups comprised of international organisations and/or national agencies

working, formally or informally, towards the development of international guidelines and recommendations relevant to one or more statistical subject

matter domains.

**Context:** 

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Statistical subject-matter domain

#### 128. Dublin core

**Definition:** The Dublin Core Metadata Initiative is an open forum engaged in the

development of interoperable online metadata standards that support a

broad range of purposes and business models.

Context:

**Source**: Dublin Core

**Hyperlink:** http://www.dublincore.org

Related Terms: Glossary

Methodology



#### 129. EDIFACT

**<u>Definition</u>**: Electronic Data Interchange for Administration, Commerce and Transport.

**Context**: EDIFACT was prepared by UN/ECE Trade Division and adopted by ISO/TC

154. The UN/ECE has also prepared Message Design Guidelines which are included in the UN/ECE Trade Data Interchange Directory. The standard was published in 1988 and amended with very small changes in 1990.

**Source:** ISO International Standard 9735:1988, "Electronic data interchange for

administration, commerce and transport (EDIFACT)", September 1996.

Hyperlink:

Related Terms: Electronic data interchange, EDI

GESMES SDMX-EDI

### 130. Education level

**<u>Definition</u>**: The highest level of an educational programme the person has successfully

completed.

**Context:** The highest level of an educational programme the person has successfully

completed is also called "educational attainment of a person". At

international level, the ISCED is the standard classification of educational

attainment.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**:

# 131. Electronic data interchange, EDI

**Definition:** Electronic exchange of data usually in forms that are compatible so that

software or a combination of individuals and software can put the data in a

compatible form at the receiving end if necessary.

**Context:** EDI offers businesses the opportunity to retrieve information electronically

from their internal systems and to forward that information to trade partners/suppliers/customers/government through a communications network. An example might be pulling data of one type of data base management system into a sequential format and then transferring the data to a second location where the data are stored in a format different from the

originating data base management system.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/editingglossary.pdf



**Related Terms**: Data exchange

EDIFACT GESMES

## 132. Embargo time

**Definition:** The exact time at which the data can be made available to the public.

**Context:** Usually, there is a time span between the finalisation of the production

process of statistical data and the moment when the data produced is released and made available to the users. This time span is called

"embargo time".

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** 

## 133. Entity

**<u>Definition</u>**: Any concrete or abstract thing that exists, did exist, or might exist, including

associations among these things e.g. a person, object, event, idea, process,

etc.

**Context:** An entity exists whether data about it are available or not.

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink:** 

**Related Terms:** Attribute

ISO/IEC 11179 Observation unit Ontology

### 134. Error of estimation

**<u>Definition</u>**: The difference between an estimated value and the true value of a

parameter or, sometimes, of a value to be predicted.

**Context:** It is immediately associated with accuracy since accuracy is used to mean

"the inverse of the total error, including bias and variance" (Kish L., "Survey

Sampling", 1965). The larger the error, the lower the accuracy.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

Related Terms: Accuracy

**Estimate** 



### 135. Error of observation

**Definition:** Error arising from imperfections in the method of observing a quantity,

whether due to instrumental or to human factors.

**Context:** 

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

**Related Terms**: Measurement error

#### 136. Estimate

**Definition:** The particular value yielded by an estimator in a given set of circumstances.

**Context:** The expression is widely used to denote the rule by which such particular

values are calculated. It seems preferable to use the word "estimator" for the rule of procedure, and "estimate" for the values to which it leads in

particular cases.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

<u>Hyperlink</u>:

**Related Terms**: Error of estimation

Estimator

Non-sampling error

Reliability
Trend estimates

#### 137. Estimation

**Definition:** The process of producing an estimate.

Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Aggregation

Compilation practices

Estimator Precision

Ratio estimation

Special Data Dissemination Standard, SDDS

Statistical processing



#### 138. Estimator

**Definition:** A rule or method of estimating a parameter of a population.

**Context:** An estimator is usually expressed as a function of sample values and hence

is a variable whose distribution is of great importance in assessing the

reliability of the estimate to which it leads.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

Hyperlink:

**Related Terms**: Estimate

Estimation

## 139. Flag

**<u>Definition</u>**: An attribute of a cell in a data set representing qualitative information about

the value of that cell.

**Context:** Examples of qualitative information that can be exchanged via a flag are:

"provisional value", "estimated value", "revised value", "forecast", "unreliable or uncertain data (see explanatory texts)", "break in series (see explanatory

texts)", "more information in...".

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Footnote

Quantitative data

### 140. Flow data series

**Definition:** Statistical series presented as flow data series are cumulated during the

reference period, for example, passenger car registrations, where the figure

for the reference period is the sum of daily registrations.

**Context**:

**Source:** Organisation for Economic Co-operation and Development (OECD), "Main

**Economic Indicators**"

**Hyperlink**:

**Related Terms:** Metadata repository

### 141. Follow-up

**Definition:** A further attempt to obtain information from a reporting unit in a survey or

field experiment because the initial attempt has failed or later information is

available.



**Context:** 

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Non-response

Non-response error

#### 142. Footnote

**Definition:** A note or other text located at the bottom of a page of text, manuscript,

book or statistical tabulation that provides comment on or cites a reference

for a designated part of the text or table.

**Context:** Attention is drawn to the footnote by means of a number, mark, etc, in the

main body of the text. A footnote generally contains information that is related to but of lesser importance than the larger work in the main body of the text or statistical table. An endnote serves the same purpose as a footnote but is generally located at the end of the text or following the last

statistical table.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Flag

### **143. Frame**

**Definition:** A list, map or other specification of the units which define a population to be

completely enumerated or sampled.

**Context:** The frame consists of previously available descriptions of the objects or

material related to the physical field in the form of maps, lists, directories, etc., from which sampling units may be constructed and a set of sampling units selected (Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group, Luxembourg, October 2003). The frame may or may not contain information about the size or other supplementary information about the units, but should have enough details so that a unit, if included in the sample, may be located and taken up for inquiry. The nature of the frame exerts a considerable influence over the structure of a sample survey. It is rarely perfect, and may be inaccurate, incomplete, inadequately described, out of date or subject to some degree of duplication. Reasonable reliability in the frame is a desirable condition for the reliability of a sample survey

based on it.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink:** 

**Related Terms:** Area sampling

Frame error Under-coverage



#### 144. Frame error

**<u>Definition</u>**: Error caused by inherent limitations of input data, or by delays and errors in

data acquisition and processing.

**Context:** Frame errors cover: - coverage errors - erroneous inclusions, omissions

and duplications; - classification errors - units not classified, or misclassified by industry, geography or size; - contact errors - units with incomplete or

incorrect contact data.

A frame error consists of a difference in the information presented in the frame and the information as it should be. There are various reasons for the

differences between this image and the real world. The sources of information used to maintain and update the frame will generally contain irregularities of some sort. The frame may be subject to certain lags in the recording of real world events, or it may have gaps due to the lack of adequate sources for certain types of information. If these distortions of the real world are considered to be acceptable by users of the frame, they should not be considered to be errors. If they are not acceptable,

procedures or sources need to be changed or improved.

**Source:** Lessler, J.T. and Kalsbeek, W.D. (1992), "Non Sampling Error in Survey",

New York: John Wiley or US department of Commerce (1978), "Glossary of

Non Sampling Error Terms: An Illustration of a Semantic Problem in

Statistics", Statistical Policy Working Pape

**Hyperlink**:

Related Terms: Frame

## 145. Frequency

**Definition:** The time interval at which observations occur over a given time period.

**Context:** If a data series has a constant time interval between its observations, this

interval determines the frequency of the series (e.g. monthly, quarterly, yearly). "Frequency" - also called "periodicity" - may refer to several stages in the production process, e.g. in data collection or in data dissemination. (e.g., a time series could be available at annual frequency but the underlying data are compiled monthly). Therefore, "Frequency" can be broken down into "Frequency - data collection" and "Frequency - data

dissemination".

For data messages, the frequency is represented through codes. Any additional detail needed (e.g. "weekly on Thursday") must be inserted as

free text within "Frequency detail".

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Aggregation

Compilation practices

Periodicity

Statistical Data and Metadata Exchange, SDMX



## 146. Gateway

**Definition:** An interface between some external source of information and a World

Wide Web server. In this instance a gateway is a web enabled search mechanism which allows users to search a distributed network of directory

nodes.

Context:

**Source:** Office for National Statistics (ONS), "National statistics, methods and quality

report: Glossary of terms"; unpublished on paper

**Hyperlink:** http://www.statistics.gov.uk/methods\_quality/data\_annex.asp

**Related Terms:** 

## 147. Gateway exchange

**Definition:** An organized set of bilateral exchanges, in which several data and

metadata sending organizations or individuals agree to exchange the collected information with each other in a single, known format, and

according to a single, known process.

**Context:** This pattern has the effect of reducing the burden of managing multiple

bilateral exchanges (in data and metadata collection) across the sharing organizations/individuals. This is also a very common process pattern in the statistical area, where communities of institutions agree on ways to gain

efficiencies within the scope of their collective responsibilities.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Data exchange

## 148. General Data Dissemination System, GDDS

<u>Definition</u>: A structured process through which member countries of the International

Monetary Fund commit voluntarily to improving the quality of the data produced and disseminated by their statistical systems over the long run to

meet the needs of macroeconomic analysis.

**Context:** 

**Source:** International Monetary Fund (IMF), "Guide to the General Data

Dissemination System", 2002

**Hyperlink:** http://dsbb.imf.org/Applications/web/gdds/gddsguidelangs/

Related Terms: Dissemination standard

Special Data Dissemination Standard, SDDS



## 149. Geographical coverage

**Definition:** see "Reference area"

#### **150. GESMES**

**Definition:** GESMES (Generic Statistical Message) is a United Nations standard

(EDIFACT message) allowing partner institutions to exchange statistical multidimentional arrays in a generic but standardised way. It has been

designed by Expert Group 6 (Statistics) of the

Context:

**Source:** European Central Bank (ECB), Bank for International Settlement (BIS),

Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide",

Release 3.00, February, 2003; unpublished on paper

Hyperlink: http://www.sdmx.org/Data/GesmesTS\_rel3.pdf

**Related Terms**: Attribute

EDIFACT

Electronic data interchange, EDI

GESMES/CB GESMES/TS Statistical message

#### 151. GESMES/CB

**Definition:** Message profile for data exchange used by the central banking community.

**Context:** GESMES/CB was developed within the central banking community to

facilitate exchange of time-series data in an EDIFACT-syntax format. It was updated to support non-central-banking applications and revised, as

GESMES/TS in 2003.

**Source:** European Central Bank (ECB), Bank for International Settlement (BIS),

Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide",

Release 3.00, February, 2003; unpublished on paper

**Hyperlink:** http://www.ecb.int/stats/services/gesmes/html/index.en.html

Related Terms: Data set

GESMES GESMES/TS

#### 152. GESMES/TS

**Definition:** GESMES Time Series data exchange message. It is a message (a

GESMES profile) allowing the exchange of statistical time series, related

attributes and structural definitions using a standardised format.



**Context:** The GESMES/TS data model is a time-series data exchange model which

allows to exchange and identify time series through a multidimensional key

and various associated metadata.

GESMES/TS has been renamed from GESMES/CB to GESMES/TS in 2003, reflecting also the adoption of the message by a large statistical community, including the BIS, the ECB, Eurostat, the IMF and OECD.

**Source:** European Central Bank (ECB), Bank for International Settlement (BIS),

Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide",

Release 3.00, February, 2003; unpublished on paper

**Hyperlink:** http://www.ecb.int/stats/services/gesmes/html/index.en.html

Related Terms: Attachment level

Attribute
Code list
Data exchange
Dimension
GESMES
GESMES/CB

Maintenance agency

Sibling group Statistical concept Structural definition Structural metadata

## 153. Glossary

**Definition:** An alphabetised list of terms with definitions.

**Context:** Glossaries are normally created by an organisation (or by a group of

organisations) to reflect its needs or those of its customers.

A glossary commonly contains an explanation of words, concepts or terms that are usually listed in alphabetical order (Economic Commission for Europe of the United Nations (UNECE), "Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and

Studies, No. 53, Geneva, 2000, available at:

http://www.unece.org/stats/publications/53metadaterminology.pdf).

Examples of statistical glossary databases are Eurostat's CODED Glossary

(available at

http://forum.europa.eu.int/irc/dsis/coded/info/data/coded/en.htm) and the

OECD Glossary of Statistical Terms (available at http://cs3-

hq.oecd.org/scripts/stats/glossary/index.htm).

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Dublin core

Keyword

Maintenance agency



## 154. Graphical data editing

**Definition:** Use of graphs to identify anomalies in data.

**Context:** While such graphical methods can employ paper, the more sophisticated

use powerful interactive methods that interconnect groups of graphs automatically and retrieve detailed records for manual review and editing.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/editingglossary.pdf

**Related Terms:** Data checking

Data editing

## 155. Grossing / Netting

**<u>Definition</u>**: Form of consolidation used in presenting the data.

**Context:** Combinations in which all statistical items are shown for their full values are

called "gross" recordings. Combinations whereby the values of some elementary items are offset against items on the other side of the account or which have an opposite sign are called "net" or consolidated recordings.

Individual units or sectors may have the same kind of transactions both as a use and as a resource (e.g., they both pay and receive interest) and the

same kind of financial instrument as an asset and as a liability.

Examples of the application of this concept include gross versus net domestic product (GDP less consumption of fixed capital), and various consolidations across units in presentations of statements of operations and balance sheets for general government and for financial corporations.

among others.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

## 156. Grossing up

**Definition:** Activity aimed at transforming, based on statistical methodology, micro-data

from samples into aggregate-level information representative for the target

population.

**Context:** 

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 



#### 157. Guidelines

**<u>Definition</u>**: Directions or principles used in the development, maintenance and

application of rules.

**Context:** Guidelines may or may not be necessarily mandatory, but are provided as

an aid to interpretation and use of rules.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**:

# 158. Hierarchy

**<u>Definition</u>**: Classification structure arranged in levels of detail from the broadest to the

most detailed level. Each level of the classification is defined in terms of the

categories at the next lower level of the classification.

Context: In SDMX this is known as a level based hierarchy. SDMX also has the

concept of the value based hierarchy where the hierarchy of categories are

not organised into formal levels.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

Related Terms: Level

Structure

### 159. Identifier

**<u>Definition</u>**: A sequence of characters, capable of uniquely identifying that with which it

is associated, within a specified context.

**Context:** A name should not be used as an identifier because it is not linguistically

neutral.

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

**Related Terms:** Country identifier

Data provider series key

Data set identifier Originator data identifier

ISO/IEC 11179

Organisation identifier



## 160. Imputation

**<u>Definition</u>**: Procedure for entering a value for a specific data item where the response

is missing or unusable.

**Context:** Imputation is the process used to determine and assign replacement values

for missing, invalid or inconsistent data. This can be done by changing some of the responses or assigning values when they are missing on the record being edited to ensure that estimates are of high quality and that a plausible, internally consistent record is created. (Statistics Canada,

"Statistics Canada Quality Guidelines", 4th edition, October 2003, page 41, available at: http://www.statcan.ca:8096/bsolc/english/bsolc?catno=12-539-

X&CHROPG=1)

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** 

Related Terms: Missing data

## 161. Index type

**Definition:** The type of index number used in the statistical production process.

**Context:** Index type refers to the various indices used in the statistical production

process (Laspeyres, modified Laspeyres, Paasche, Value-Added, Fisher, Tornqvist or other indexes). Important features in the construction of an index number are its coverage, base period, weighting system and method

of averaging statistical results.

Source: The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

Related Terms: Base weight

Chain index

Compilation practices

Weight period

#### 162. Indicator

see "Statistical indicator"

#### 163. Information

**Definition:** Knowledge concerning any objects such as facts, events, things, processes

or ideas including concepts that within a certain context have a particular

meaning.



Context:

Source: ISO/IEC 2382-1; 1992 - Economic Commission for Europe of the United

Nations (UNECE), "Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva,

2000

**Hyperlink**: http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** 

# 164. Information system

**Definition:** A system which supports decision-making concerning some piece of reality,

the object system, by giving decision makers access to information concerning relevant aspects of the object system and its environment.

**Context:** A "statistical information system" is the information system oriented towards

the collection, storage, transformation and distribution of statistical

information.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

Hyperlink: http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** 

#### 165. Institutional mandate

**Definition:** Set of rules or other formal set of instructions assigning responsibility as

well as the authority to an organisation for the collection, processing, and

dissemination of statistics

**Context:** It also includes arrangements or procedures to facilitate data sharing and

coordination between data producing agencies.

This concept can be further broken down into: Institutional mandate - data

sharing; Institutional mandate - legal acts and other agreements;

Institutional mandate - respondent relations.

"Data sharing" refers to the arrangements or procedures for data sharing and coordination between data producing agencies. "Legal acts and other agreements" refers to the legal acts or other formal or informal agreements that assign responsibility as well as the authority to an agency for the collection, processing, and dissemination of statistics. "Respondent

relations" refers to the measures to encourage statistical reporting and/or to

sanction non-reporting.

**Source**: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

**Related Terms:** 



#### 166. Institutional sector

**<u>Definition</u>**: An aggregation of institutional units on the basis of the type of producer and

depending on their principal activity and function, which are considered to

be indicative of their economic behaviour.

**Context:** A sector is divided into sub-sectors according to the criteria relevant to that

sector; this permits a more precise description of the economic behaviour of

the units.

**Source:** Eurostat, "European System of Accounts - ESA 1995", Office for Official

Publications of the European Communities, Luxembourg, 1996, 2.17-2.18

Hyperlink:

Related Terms: Institutional unit

#### 167. Institutional unit

**<u>Definition</u>**: The elementary economic decision-making centre characterised by

uniformity of behaviour and decision-making autonomy in the exercise of its principal function. A resident unit is regarded as constituting an institutional

unit if it has decision-making aut

**Context:** A resident unit is regarded as constituting an institutional unit if it has

decision-making autonomy in respect of its principal function and either keeps a complete set of accounts or it would be possible and meaningful, from both an economic and legal viewpoint, to compile a complete set of

accounts if they were required.

The need for aggregation means that it is impossible to consider individual institutional units separately; they must be combined into groups called institutional sectors or simply sectors, some of which are divided into sub-

sectors.

The System of National Accounts 1993 states that "Institutional units are grouped together to form institutional sectors, on the basis of their principal functions, behaviour, and objectives". (United Nations, "System of National

Account (SNA) 1993", par. 2.20).

Source: Eurostat, "European System of Accounts - ESA 1995", Office for Official

Publications of the European Communities, Luxembourg, 1996, 2.12

**Hyperlink**:

Related Terms: Classification version

Institutional sector

# 168. Integrity

**<u>Definition</u>**: Values and related practices that maintain confidence in the eyes of users

in the agency producing statistics and ultimately in the statistical product.

**Context:** Under the SDDS framework, "integrity" is the third of four dimensions of the

standard (i.e., data, access, integrity, and quality) for which evidence of a subscribing member's observance of the standard can be obtained.



Integrity refers to the description of the policy on the availability of the terms and conditions under which statistics are collected, processed, and disseminated. It also describes the policy of providing advanced notice of major changes in methodology, source data, and statistical techniques; the policy on internal governmental access to statistics prior to their release; the policy on statistical products' identification.

One important aspect, in integrity, is the trust in the objectivity of statistics. It implies that professionalism should guide policies and practices and it is supported by ethical standards and by transparency of policies and

practices.

Source: International Monetary Fund, "Data Quality Assessment Framework - DQAF

- Glossary", unpublished

**Hyperlink**:

Related Terms: Accessibility

Ministerial commentary Pre-release access Professionalism Revision policy

Special Data Dissemination Standard, SDDS

## 169. Internal access

see "Pre-release access"

# 170. International code designator

**Definition:** An identifier of an organization identification scheme.

Context:

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: ISO/IEC 11179

#### 171. International statistical standard

**<u>Definition</u>**: The comprehensive body of international statistical guidelines and

recommendations that have been developed by international organisations

working with national agencies.

**Context:** The formulation of international statistical standards necessarily entails an

extensive process of consultation and discussion between international organisations and between international organisations and their member countries. The standards cover almost every field of statistical endeavour from data collection, processing and dissemination and almost very statistical subject. Such standards also include international statistical



classifications. The most comprehensive database of existing international statistical guidelines and recommendations is maintained on the United Nations Statistical Division website, the Methodological publications in statistics. This database also lists standards currently being developed by international organisations.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Statistical concept

Statistical standard

## 172. Interpolation

**<u>Definition</u>**: The use of a formula to estimate an intermediate data value.

**Context:** A common example is the quarterly estimation of output of non-profit

institutions serving households (NPISH) from annual national accounts. A

quarterly pattern for interpolation may be derived:

- from previous (discontinued) survey data;

- from proxy variables;

- as a smooth mathematical function.

Source: The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink:** 

Related Terms: Benchmarking

### 173. Interpretability

See "Clarity"

#### 174. Interviewer error

**<u>Definition</u>**: Effects on respondents' answers stemming from the different ways that

interviewers administer the same survey.

**Context:** Examples of these errors include the failure to read the question correctly

(leading to response errors by the respondent), delivery of the question with an intonation that influences the respondent's choice of answer, and failure

to record the respondent's answer correctly.

Source: Paul P. Biemer, Robert M.Groves, Lars E. Lyberg, Nancy A.Mathiowetz,

Seymour Sudman, "Measurement errors in survey", John Wiley &Sons,

1991

**Hyperlink**:

**Related Terms:** 



### 175. ISO/IEC 11179

**<u>Definition</u>**: International ISO/IEC Standard on metadata registries addressing the

semantics of data, the representation of data, and the registration of the

descriptions of data.

**Context:** ISO/IEC 11179 specifies the kind and quality of metadata necessary to

describe data, and it specifies the management and administration of those metadata in a registry. The purposes of the standard are to promote a standard description of data, a common understanding of data across organizational elements and between organizations, re-use and

standardization of data components.

ISO/IEC 11179 is a six-part standard:

Part 1 - Framework - Contains an overview of the standard and describes

the basic concepts

Part 2 - Classification - Describes how to manage a classification scheme in

a metadata registry

Part 3 - Registry metamodel and basic attributes - Provides the basic conceptual model, including the basic attributes and relationships, for a

metadata registry

Part 4 - Formulation of data definitions - Rules and guidelines for forming

quality definitions for data elements and their components

Part 5 - Naming and identification principles - Describes how to form

conventions for naming data elements and their components

Part 6 - Registration - Specifies the roles and requirements for the

registration process in an ISO/IEC 11179 metadata registry

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms:** Administrative item

Administrative record

Attribute

Characteristics

Class

Concept

Conceptual data model

Conceptual domain

Contact

Context

Creation date

Data element

Data model Data type

Date of last change

Definition

Dimensionality

Entity

Identifier

International code designator

Keyword

Language

Metadata



Metadata item Metadata object Metadata set Metamodel Name Object Object class Organisation

Organisation identifier Permissible value Permitted value Property

Reference document

Register Registrar Registration

Registration authority

Registry item

Registry metamodel Related data reference Related metadata reference

Relationship Semantics

Special Data Dissemination Standard, SDDS

Submitting organization

Syntax
Taxonomy
Thesaurus
Unit of measure
Value domain
Value item
Value meaning

## 176. Item response rate

**Definition:** The ratio of the number of eligible units responding to an item to the number

of responding units eligible to have responded to the item.

**Context:** 

**Source:** Madow, W., Nisselson, H., and Olkin, I., "Incomplete Data in Sample

Surveys", Academic Press, New York, 1983

**Hyperlink**:

Related Terms: Non-response rate

Refusal rate Response rate

# 177. Key

**<u>Definition</u>**: Unique identification of a time series or sibling group within a data set.

**Context:** In the GESMES/TS data model, every time series takes a value for every

dimension of the data structure definition ("key family") to which the series



belongs. The meaning attached to the value of one dimension is not

permitted to depend upon the values of any other dimensions.

**Source:** European Central Bank (ECB), Bank for International Settlement (BIS),

Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide",

Release 3.00, February, 2003; unpublished on paper

**Hyperlink:** 

Related Terms: Data provider series key

Dimension Key structure Sibling group Time series

# 178. Key family

See "Data structure definition"

## 179. Key structure

**<u>Definition</u>**: An ordered set of coded statistical concepts whose combination of values

(dimension values) uniquely identifies each time series within a data set.

**Context:** 

**Source:** European Central Bank (ECB), Bank for International Settlement (BIS),

Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide",

Release 3.00, February, 2003; unpublished on paper

Hyperlink: http://www.sdmx.org/Data/GesmesTS\_rel3.pdf

Related Terms: Dimension

Key

Statistical concept

### 180. Keyword

<u>Definition</u>: One or more significant words used for retrieval of any data or metadata

element.

**Context:** In general terms, a keyword is a word used for linking to certain classified

objects, for instance in a registry or in a website.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Code list

Data element Glossary

ISO/IEC 11179



## 181. Language

**<u>Definition</u>**: A system of signs for communication, usually consisting of a vocabulary

and rules [ISO 5127:2001, 1.1.2.01]

**Context**:

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: ISO/IEC 11179

Special Data Dissemination Standard, SDDS

### **182. Level**

**<u>Definition</u>**: A group of codes which are characterised by homogeneous coding, and

where the parent of each code in the group is at the same higher level of

the hierarchy.

**Context**:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Code

Hierarchy

# 183. Macro editing

**Definition:** A procedure for tracking suspicious data by checking aggregates or

applying statistical methods on all records or on a subset of them.

**Context:** A macro-edit detects individual errors by checks on aggregated data, or

checks applied to the whole body of records. The checks are typically based on the models, either graphical or numerical formula based, that determine the impact of specific fields in individual records on the aggregate estimates. (Economic Commission for Europe of the United Nations (UNECE), "Glossary of Terms on Statistical Data Editing", Conference of European Statisticians Methodological material, Geneva, 2000, available at

http://www.unece.org/stats/publications/editingglossary.pdf

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, May 2002

**Hyperlink:** http://www.unece.org/stats/publications/editingglossary.pdf

Related Terms: Data checking

Data editing Micro editing



#### 184. Macrodata

**<u>Definition</u>**: The result of a statistical transformation process in the form of aggregated

information.

**Context:** A macrodata set is normally checked and if necessary adjusted, so that it is

ready for dissemination as authoritative results of official statistics.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

# 185. Maintenance agency

**Definition:** The organisation or other expert body that maintains a domain-specific data

or metadata structure definitions.

**Context:** 

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Classification

Data consumer

Data structure definition

GESMES/TS Glossary

Structural definition

# 186. Matching

**<u>Definition</u>**: The linkage of micro-data from different sources based on common features

present in those sources.

**Context:** If these common features include a common reference or identification

number, the process can be referred to as exact matching. In exact matching there are two possible outcomes, either the records match exactly on the basis of the common identifier, or they don't. Where common

on the basis of the common identifier, or they don't. Where common identifiers are not present, or are of poor quality, the alternative is to use other variables common to the sources involved, but with values that are not necessarily unique to a particular record. In such cases, matching routines tend to rely on probabilities to determine which records match, this

is referred to as probabilistic matching.

Source: SDMX (2009)

Hyperlink:

**Related Terms:** Data Integration



#### 187. Measure

**Definition:** The phenomenon or phenomena to be measured in a data set.

**Context:** In a data set, the instance of a measure is often called an observation.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Data set

Observation Aggredated data

#### 188. Measurement error

**<u>Definition</u>**: Error in reading, calculating or recording numerical value.

**Context:** Measurement errors occur when the response provided differs from the real

value. Such errors may be attributable to the respondent, the interviewer, the questionnaire, the collection method or the respondent's record-keeping system. Errors may be random or they may result in a systematic bias if

they are not random.

Measurement error in a survey response may result from respondents' confusion, ignorance, carelessness or dishonesty; error attributable to the interviewer, may be a consequence of poor or inadequate training, prior expectations regarding respondents' responses, or deliberate errors; and error attributable to the wording of the questions in the questionnaire, the order or context in which the questions are presented, and the method used to obtain the responses. Statistics Canada, "Statistics Canada Quality

Guidelines", 4th edition, October 2003, page 5)

**Source:** The Cambridge Dictionary of Statistics, B.S. Everitt, Cambridge University

Press, 1998

**Hyperlink:** 

**Related Terms:** Error of observation

#### 189. Metadata

**Definition:** Data that defines and describes other data.

**Context:** For the ISO standard, metadata is defined as data that defines and

describes other data and processes. This means that metadata are data that describe other data, and data become metadata when they are used in this way. This happens under particular circumstances and for particular purposes, as no data are always metadata. The set of circumstances and purposes (or perspective) for which some data are used as metadata is called the context. So, metadata are data about data in some context.

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004



**Hyperlink**:

Related Terms: Data

Data provider ISO/IEC 11179 Metadata layer Metadata registry Metadata set

Metadataflow definition Statistical metadata Statistical metadata system

### 190. Metadata attribute

See "Attribute"

### 191. Metadata dimension

**<u>Definition</u>**: The higher level of the metadata structure which, combined with more

detailed elements, forms the basic framework under which data are

described.

**Context:** A metadata framework is usually presented in a hierarchical structure where

a small number of "dimensions" (e.g., data, access, integrity and quality in the SDDS format) is further broken down in a series of sub-elements (e.g., coverage, periodicity, and timeliness) to form the basic framework under

which data are described.

Source: SDMX (2009)

Hyperlink:
http://www.sdmx.org/

Related Terms: Special Data Dissemination Standard, SDDS

#### 192. Metadata item

**Definition:** An instance of a metadata object.

**Context:** A metadata item has associated attributes, as appropriate for the metadata

object it instantiates. Each metadata item can have a distinct status: mandatory (always required), conditional (understood as required under certain specified conditions) and optional (permitted but not required).

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

**Related Terms:** Attribute

ISO/IEC 11179 Metadata object



Metadata set Registry Registry item

Related metadata reference

## 193. Metadata layer

**Definition:** A layer in the reference model for standardisation in statistics used to

denote the set of attributes related to statistical metainformation.

Context:

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European

Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Metadata

Metadata registry Statistical metadata

Statistical metadata system Statistical metainformation

## 194. Metadata object

**Definition:** An object type defined by a metamodel.

**Context**:

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

Hyperlink:

Related Terms: ISO/IEC 11179

Metadata item Metamodel Object

# 195. Metadata registry

**<u>Definition</u>**: Information system for registering metadata.

**Context:** Within ISO/IEC 11179, a metadata registry is a database of metadata that

supports the functionality of registration. Registration accomplishes three main goals: identification, provenance, and monitoring quality. Identification is accomplished by assigning a unique identifier (within the registry) to each object registered there. Provenance addresses the source of the metadata and the object described. Monitoring quality ensures that the metadata does the job it is designed to do. A metadata registry manages the semantics of data. Understanding data is fundamental to its design, harmonization, standardization, use, re-use, and interchange. The



underlying model is designed to capture all the basic components of the semantics of data, independent of any application or subject matter area. Registration also allows two or more administered items describing identical objects to be identified, and it will identify situations where similar or identical names are in use for administered items that are significantly different in one or more respects.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Administered item

ISO/IEC 11179
Metadata
Metadata layer
Registry
Registry item

Registry metamodel SDMX Registry Statistical metadata Submitting organization

# 196. Metadata repository

**<u>Definition</u>**: A logically central statistical repository that allows for querying, editing and

managing of metadata.

**Context:** Such a system provides a mechanism for looking up information about

statistical products as well as their design, development, and analysis. Too often metadata is scattered, incomplete or missing. Many times the only source for some information is from subject matter experts. The effective and efficient management of statistical metadata greatly increases the usefulness of statistical data. Since metadata is data, it can be stored and retrieved in a repository just as the data it describes is stored and retrieved

in a database.

There are many functions for which statistical metadata repositories are designed. Primarily, it is a standard tool for researchers and analysts to locate data and descriptions of surveys. Data dictionaries, record layouts, questionnaires, sample designs, and standard errors are the types of information that are directly available in such a repository. Less obviously, users can compare designs of different surveys and find common

information collected by different surveys (United States Bureau of the Census, Software and Standards Management Branch, Systems Support

Division, "Survey Design and Statistical Methodology Metadata", Washington D.C., August 1998, Section 3.4.5, pages 53, 54).

Source: Organisation for Economic Co-operation and Development (OECD), "Main

Economic Indicators", monthly

**Hyperlink:** 

Related Terms: Flow data series



### 197. Metadata set

**<u>Definition</u>**: Any collection of metadata.

**Context:** 

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: ISO/IEC 11179

Metadata Metadata item

### 198. Metadata structure definition

**<u>Definition</u>**: A collection of metadata concepts, structure and usage when used to

collect or disseminate reference metadata.

**Context:** A reference metadata set also has a set of structural metadata which

describes how it is organized. This metadata identifies what reference metadata concepts are being reported, how these concepts relate to each other (typically as hierarchies), what their presentational structure is, how they may be represented (as free text, as coded values, etc.), and with

which formal object types they are associated.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Attribute

Concept

Concept scheme Reference metadata Structural metadata

Structure

## 199. Metadata update

**<u>Definition</u>**: The date on which the metadata element was inserted or modified in the

database.

**Context:** The date of the metadata update may refer to the update of a whole

metadata set or to the update of any single metadata item. The update can refer to the file update (with or without change in the content) or to the date

on which the metadata have been posted on the web.

Correspondingly, this concept can be broken down into: Metadata update - last certified; Metadata update - last posted; Metadata update - last update.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 



### 200. Metadataflow definition

**Definition:** A collection of metadata concepts, structure and usage when used to

collect or disseminate reference metadata.

**Context:** A reference metadata set also has a set of structural metadata which

describes how it is organized. This metadata identifies what reference metadata concepts are being reported, how these concepts relate to each other (typically as hierarchies), what their presentational structure is, how they may be represented (as free text, as coded values, etc.), and with

which formal object types they are associated.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Category scheme

Data flow definition

Definition Metadata

### 201. Metamodel

**Definition:** A data model that specifies one or more other data models.

**Context:** The metamodel provides a framework for understanding the important

metadata that needs to be captured when describing data.

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: Data model

ISO/IEC 11179 Metadata object Registry metamodel

# 202. Methodological soundness

**Definition:** The extent to which the methodology used to compile statistics complies

with the relevant international standards, including the professional standards enshrined in the Fundamental Principles for Official Statistics.

Context:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms:** 



# 203. Methodology

**<u>Definition</u>**: A structured approach to solve a problem.

**Context**: A set of research methods and techniques applied to a particular field of

study (Statistics Canada, Glossary, available at:

http://www.statcan.ca/english/edu/power/glossary/gloss.htm).

Advance notice in major changes in methodology, in SDMX, refers to the policy on notifying the public of changes in methodology, indicating whether the public is notified before a methodological change affects disseminated

data and, if so, how long before. (http://www.sdmx.org/)

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** Documentation on methodology

Dublin core

Statistical methodology

Statistical subject-matter domain

## 204. Micro editing

**<u>Definition</u>**: An exhaustive check to find errors by inspecting each individual

observation.

**Context:** Editing done at the record, or questionnaire level.

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, May 2002

**Hyperlink**:

**Related Terms**: Data editing

Macro editing

### 205. Microdata

**<u>Definition</u>**: Non-aggregated observations, or measurements of characteristics of

individual units.

**Context:** Microdata set is the result of a survey instance or other data collection

instance after unit-level editing and imputation and possible matching with other unit-level data. It organizes unit level data so that relationships between individual units and their characteristics can be identified, so as to

allow all forms of aggregation.

Context: This is sometimes called an observation register (see, for instance, B. Sundgren: Guidelines for the modelling of statistical data and

metadata, UN Geneva and New York, 1995).

Anonymised microdata are individual statistical records which have been modified in order to minimise, in accordance with current best practice, the



risk of identification of the statistical units to which they relate (European Commission Regulation (EC) No 831/2002 of 17 May 2002 implementing Council Regulation (EC) No 322/97 on Community Statistics, concerning

access to confidential data for scientific purposes).

Longitudinal microdata sets combine unit-level data from succeeding data collection instances over multiple time periods. Related terms Longitudinal

data.

Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

**Related Terms:** Access

Aggregation

## 206. Ministerial commentary

**Definition:** Commentary on the released data provided by the government authority.

**Context:** Under the SDDS, this entails the identification of any such commentary so

as to maintain the objectivity or freedom from political judgement of the

official statistical data being disseminated.

Source: SDMX (2009)

http://www.sdmx.org/ **Hyperlink:** 

**Related Terms:** Integrity

Pre-release access

Special Data Dissemination Standard, SDDS

#### 207. Misclassification

Erroneous classification of a subject into a category in which the subject **Definition:** 

does not belong.

**Context:** 

The International Statistical Institute, "The Oxford Dictionary of Statistical Source:

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

**Related Terms:** 

# 208. Missing data

**Definition:** Observations which were planned and are missing.

**Context:** Missing data in a survey may occur when there are no data whatsoever for

a respondent (non-response) or when some variables for a respondent are unknown (item non-response) because of refusal to provide or failure to

collect the response (ISI).



**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

**Related Terms**: Imputation

Non-response Observation

# 209. Model assumption error

**Definition:** Error that occurs with the use of methods, such as calibration, generalised

regression estimator, calculation based on full scope or constant scope, benchmarking, seasonal adjustment and other models not included in the

preceding accuracy components, in o

Context:

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

**Hyperlink**:

**Related Terms**:

# 210. Multilateral exchange

**Definition:** The exchange of statistics and / or metadata between a sending and

several receiving organisations for a specific data flow where all parties agree on all aspects of the exchange (including the mechanism for

exchange, the formats, the frequency or schedul

**Context:** This exchange process has the effect of reducing the burden of a sending

organisation of managing multiple unique bilateral exchanges of statistics and / or metadata with several receiving organisations. This is also a very common exchange process in the statistical area, where communities of national and international institutes agree on ways to gain efficiencies within

the scope of their collective responsibilities. Apart from Multilateral

exchange, the SDMX initiative identifies two other basic forms of exchange of statistics and metadata between organisations, i.e. bilateral exchange

and data-sharing exchange.

Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

Related Terms: Bilateral exchange

Data exchange Data sharing

#### **211. Name**

**Definition:** The designation of an object by a linguistic expression.



**Context:** 

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: ISO/IEC 11179

#### 212. Nomenclature

**<u>Definition</u>**: A systematic naming of things or a system of names or terms for things. In

classification, nomenclature involves a systemic naming of categories or

items.

**Context:** The terms "classification" and "nomenclature" are often used

interchangeably, despite the definition of a "classification" being broader than that of a "nomenclature". A nomenclature is essentially a convention for describing observations, whereas a classification structures and codifies

the observations as well.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

**Related Terms**: Classification

### 213. Non-probability sample

**Definition:** A sample in which the selection of units is based in factors other than

random chance, e.g. convenience, prior experience or the judgement of a

researcher.

**Context:** 

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

**Hyperlink:** 

**Related Terms:** Probability sample

# 214. Non-response

**Definition:** A form of observation present in most surveys, which means failure to

obtain a measurement on one or more study variables for one or more

elements k selected for the survey.

**Context:** The term encompasses a wide variety of reasons for non observation, such

as "impossible to contact", "not at home", "unable to answer", "incapacity", "hard core refusal", "inaccessible" or "unreturned questionnaire". In the first

two cases, a contact with the selected element is never established.



There are two broad types of non-response: first, a sampled unit that is contacted may fail to respond: this represents "unit non-response"; second, the unit may respond to the questionnaire incompletely: this is referred to as "item non-response".

Non-response leads to an increase in variance as a result of a reduction in the actual size of the sample and the recourse to imputation. This produces a bias if the non-respondents have characteristics of interest that are different from those of the respondents. Furthermore, there is a risk of significantly underestimating the sampling error, if imputed data are treated as though they were observed data. (Statistics Canada, "Statistics Canada Quality Guidelines", 4th edition, October 2003, page 59).

Sarndal C.E., Swensson B., Wretman J., "Model assisted survey sampling", Source:

Springer - Verlag, New York, 1992

http://www.statcan.ca:8096/bsolc/english/bsolc?catno=12-539-**Hyperlink:** 

X&CHROPG=1

Related Terms: Follow-up

Missing data

Non-response error Non-response rate

Observation Refusal rate Survey Weight

# 215. Non-response bias

See "Non-response error"

# 216. Non-response error

Error that occurs when the survey fails to get a response to one, or possibly **Definition:** 

all, of the questions.

Context: Non-response errors result from a failure to collect complete information on

all units in the selected sample. These are known as "unit non- response"

and "item non-response".

Non-response errors affect survey results in two ways. First, the decrease in sample size or in the amount of information collected in response to a particular question results in larger standard errors. Second, and perhaps more important, a bias is introduced to the extent that non-respondents

differ from respondents within a selected sample.

Non-response errors are determined by collecting any or all of the following: unit response rate, weighted unit response rate, item response rate, item coverage rate, refusal rate, distribution of reason for non response, comparison of data across contacts, link to administrative data for nonrespondents, estimate of non-response bias (Statistical Policy Working Paper 15: Quality in Establishment Surveys, Office of Management and

Budget, Washington D.C., July 1988, page 68).



Source: Statistics Canada, "Statistics Canada Quality Guidelines", 3rd edition,

October 1998.

**Hyperlink**: http://www.statcan.ca/english/freepub/12-539-XIE/12-539-XIE.pdf

**Related Terms:** Follow-up

Non-response

Weight

## 217. Non-response rate

**Definition:** The proportion of non-response in a sample.

Context:

Source: The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink:** 

**Related Terms:** Item response rate

Non-response Refusal rate Response rate Sample

# 218. Non-sampling error

Error in sample estimates which cannot be attributed to sampling **Definition:** 

fluctuations.

**Context:** Non-sampling error may arise from many different sources such as defects

> in the sampling frame, faulty demarcation of sample units, defects in the selection of sample units, mistakes in the collection of data due to personal variations, misunderstanding, bias, negligence or dishonesty on the part of

the investigator or of the interviewer, mistakes at the stage of the

processing of the data, etc.

Non- sampling errors may be categorised as:

- Coverage errors (or frame errors) due to divergences between the target

population and the frame population;

- Measurement errors occurring during data collection.

- Nonresponse errors caused by no data collected for a population unit or

for some survey variables.

- Processing errors due to errors introduced during data entry, data editing,

sometimes coding and imputation.

- Model assumption errors.

SDMX (2009) Source:

http://www.sdmx.org/ **Hyperlink:** 

**Related Terms:** Estimate

Sampling error



# 219. Object

**<u>Definition</u>**: Anything perceivable or conceivable.

**Context:** Objects may be material (e.g. an engine, a sheet of paper, a diamond),

immaterial (e.g. a conversion ratio, a project plan) or imagined [adapted

from ISO 1087-1:2000].

In object-oriented design or programming, an object is a concrete realisation of a class that consists of data and the operations associated with that data. An item that a user can manipulate as a single unit to

perform a task.

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: Attribute

Characteristic

Class

ISO/IEC 11179 Metadata object Object class Ontology Property

# 220. Object class

**Definition:** A set of ideas, abstractions, or things in the real world that can be identified

with explicit boundaries and meaning and whose properties and behavior

follow the same rules.

**Context:** Object class administration record is the Administration record for an Object

class

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: ISO/IEC 11179

Object Property

# 221. Objectives

**Definition:** The purposes for which information is required, stated within the context of

the program, research problem or hypotheses that gave rise to the need for

information.

**Context:** 



Source: Statistics Canada, "Statistics Canada Quality Guidelines", 4th edition,

October 2003, page 11

**Hyperlink:** http://www.statcan.ca:8096/bsolc/english/bsolc?catno=12-539-

X&CHROPG=1

**Related Terms:** 

#### 222. Observation

**<u>Definition</u>**: The value, at a particular period, of a particular variable.

Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Census

Classification Coverage ratio Derived statistic Disaggregation Measure Missing data Non-response

Observation pre-break value

Observation unit Observation value Reference period Statistical concept Statistical variable Time period Time series

# 223. Observation confidentiality

See "Confidentiality"

# 224. Observation pre-break value

**Definition:** The observation, at a time series break period, that was calculated using

the old methodology.

**Context:** At a time series break period, two observations may be recorded: the pre-

break value produced on the basis of the old methodology and the postbreak value, as measured by the new methodology. SDMX allows for a prebreak value in the case of a series break, where one would use the

observation value to show the post-break value.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/



**Related Terms:** Observation

Time series

Time series break

#### 225. Observation status

**<u>Definition</u>**: Information on the quality of a value or an unusual or missing value.

**Context:** This item is normally coded and uses codes providing information about the

status of a value, with respect to events such as "break", "estimated value", "forecast", "missing value", or "provisional value". In some cases, there is more than one event that may have influenced the value (e.g. a break in methodology may be accompanied with the fact that an observation is an

estimate).

A textual comment providing more detailed information on important events

related to an observation can be added via the attribute "Comment".

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** 

#### 226. Observation unit

**<u>Definition</u>**: Those entities for which information is received.

**Context:** During the collection of data, this is the unit for which data is recorded. It

should be noted that this may, or may not be, the same as the reporting

unit.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Analytical unit

Classification

**Entity** 

Observation Statistical unit

### 227. Observation value

<u>Definition</u>: The value of a particular variable at a particular period.

<u>Context</u>: The observation value is the field which holds the data.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Observation



## 228. Occupation

**Definition:** Job or position held by an individual who performs a set of tasks and duties.

**Context**: Occupation refers to the type of work done during the reference period by

the person employed (or the type of work done previously, if the person is unemployed), irrespective of the industry or the status in employment in which the person should be classified. Occupation is defined in terms of jobs or posts. "Job" is defined by the International Labour Organisation (ILO) as a set of tasks and duties executed, or meant to be executed, by one person. A set of jobs whose main tasks and duties are characterised by a high degree of similarity constitutes an occupation. Persons are classified by occupation through their relationship to a past, present or future job. The international standard for classification of occupations is the International Standard Classification of Occupations (ISCO). Therefore the concept is normally coded.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 229. Official statistics

**Definition:** Any statistical activity carried out within a national statistical system, or

under the statistical programme of an intergovernmental organization.

**Context:** Official statistics are compiled in accordance with the Fundamental

Principles for Official Statistics, the European Statistics Code of Practice or a similar authoritative framework ensuring minimum professional standards.

National statistical systems comprise the ensemble of statistical

organisations and units within a country that jointly collect, process and disseminate official statistics on behalf of national government. They also include the mechanisms of interaction between suppliers, producers, users

and other stakeholders.

The global system of official statistics comprises all national and

international producers of official statistics.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

## 230. Ontology

**Definition:** A formal specification of a conceptualisation, i.e. the objects, concepts and

other entities that are assumed to exist in some area of interest and the

relationships that hold among them.

**Context:** Ontology it is a branch of metaphysics concerned with the nature and



relations of being.

In its general meaning, ontology is the study or concern about what kinds of things exist - what entities there are in the universe. It derives from the Greek onto (being) and logia (written or spoken discourse). In artificial intelligence, an ontology is, according to Tom Gruber, "the specification of conceptualizations, used to help programs and humans share knowledge." In this usage, an ontology is a set of concepts - such as things, events, and relations - that are specified in some way in order to create an agreed-upon

vocabulary for exchanging information (http://www-ksl.stanford.edu/kst/what-is-an-ontology.html).

**Source:** United Nations Statistical Commission and Economic Commission For

Europe

Conference Of European Statisticians, Statistical Standards And Studies - No. 53, "Terminology on Statistical Metadata", United Nations, Geneva,

2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Concept

Entity Object Taxonomy

### 231. Organisation

**<u>Definition</u>**: A unique framework of authority within which a person or persons act, or

are designated to act, towards some purpose.

**Context:** International organisations are entities established by formal political

agreements between their members that have the status of international treaties; their existence is recognised by law in their member countries; they are not treated as resident institutional units of the countries in which they are located (United Nations, "System of National Account (SNA) 1993",

par.4.164).

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: ISO/IEC 11179

Organisation identifier Organisation role

# 232. Organisation identifier

**Definition:** The identifier assigned to an organization within an organization

identification scheme, and unique within that scheme.

**Context:** 

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004



**Hyperlink:** 

Related Terms: Identifier

ISO/IEC 11179 Organisation

# 233. Organisation role

**<u>Definition</u>**: The function or activities of an organisation, in statistical processes such as

collection, processing and dissemination.

**Context**:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Data consumer

Dissemination Organisation

### 234. Origin

**Definition:** The source (document, project, discipline or model) for the Administered

item.

Context:

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: Administered item

# 235. Originator data identifier

**<u>Definition</u>**: The data identifier as found in the originating database.

**Context:** A unique identifier should enable data producers to recognise the database

where the data were stored.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Administered item

Data set identifier



## 236. Out-of-scope units

**<u>Definition</u>**: Units that should not be included in the sampling frame because they do not

belong to the target population in the reference period.

**Context:** If enumerated, out of scope units cause over-coverage.

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

**Hyperlink:** 

**Related Terms**: Over-coverage

Scope

## 237. Over-coverage

**<u>Definition</u>**: Error due to the inclusion in the sample of elements that do not belong

there.

**Context:** Over-coverage arises from the presence in the frame of units not belonging

to the target population and of units belonging to the target population that appear in the frame more than once (Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group, Luxembourg, October 2003).

**Source:** United States Federal Committee on Statistical Methodology, "Statistical

Policy Working Paper 4 - Glossary of Non-sampling Error Terms: An

Illustration of a Semantic Problem in Statistics", 1978

**Hyperlink:** http://www.fcsm.gov/working-papers/sw4.html

**Related Terms**: Out-of-scope units

Under-coverage

#### 238. Period

**Definition:** The time interval of single repetition of a varying quantity of a motion or

phenomenon which repeats itself regularly.

**Context:** The period is the reciprocal of the frequency. More loosely, the expression

is used to denote the time interval or average interval between identifiable points of recurrence, e.g. between peaks or troughs of the series (month,

quarter, year,).

In GESMES/TS, a period is a time reference.

**Source:** McGraw-Hill Encyclopedia of Science and Technology

Hyperlink:

Related Terms: Reference period

Time period Weight period



## 239. Periodicity

**<u>Definition</u>**: Frequency of compilation of the data.

**Context:** Periodicity refers to the frequency of compilation of the data (e.g., a time

series could be available at annual frequency but the underlying data are compiled monthly, thus have a monthly periodicity). The periodicity of a particular data category is determined by several factors, including the ease of observation or compilation and the needs of analysis. Periodicity is usually expressed in terms of divisions of the calendar (e.g. monthly,

quarterly).

Periodicity of original data refers to the frequency of compilation of data by the source agency, i.e. the national agency or international organisation that provided the information. This agency may or may not be the agency

responsible for the original collection of the data.

**Source:** International Monetary Fund (IMF), "Guide to the Data Dissemination

Standards, Module 1: The Special Data Dissemination Standard",

Washington, May 1996

**Hyperlink:** http://dsbb.imf.org/Applications/web/gdds/gddsguidelangs/

Related Terms: Data

Frequency

Special Data Dissemination Standard, SDDS

#### 240. Permissible value

**Definition:** Designation of a value meaning within a specific value domain.

**Context:** Permissible value meaning is an expression of a value meaning allowed in

a specific value domain.

Attributes of Permissible value according to ISO/IEC 11179:

"Permissible value begin date" is the date this value became/becomes allowed in the Value domain. A Registration authority may determine whether this date is the date the value becomes valid in a registry or the date the value becomes part of the source domain or some other date.

"Permissible value end date" is the date this value became/becomes no longer allowed in the Value domain. A Registration authority may determine whether this date is the date the value becomes no longer valid in a registry or the date the value becomes no longer part of the source domain or some

other date.

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

Hyperlink:

**Related Terms**: Conceptual domain

ISO/IEC 11179 Permitted value Registration authority

Value domain Value meaning



### 241. Permitted value

**Definition:** Representation of a value meaning in a specific value domain – the actual

value.

Context:

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: ISO/IEC 11179

Permissible value Value domain

### 242. Pre-break observation

See "Pre-break value"

### 243. Pre-break value

See "Observation Pre-break value"

#### 244. Precision

**<u>Definition</u>**: The property of the set of measurements of being very reproducible or of an

estimate of having small random error of estimation.

**Context:** Precision is to be contrasted with accuracy, which is the property of being

close to a target or true value.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink:** 

Related Terms: Accuracy

Estimation

### 245. Pre-release access

**<u>Definition</u>**: The practice of giving certain individuals or organisations access to data

under embargo before those data are released to the public

**Context:** This entails the transparent recording of persons or officials holding



designated positions within the government, but outside the statistical system producing the data, who have pre-release access to the data and the reporting of the schedule according to which they receive access. Also called "internal access" in the Data Quality Assessment Framework of the

IMF.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Integrity

Ministerial commentary

Revision policy

Special Data Dissemination Standard, SDDS

## 246. Prerequisites of quality

**Definition:** Institutional conditions for the pursuit of data quality.

<u>Context</u>: The Data Quality Assessment Framework (DQAF) groups the indicators of

this kind into three elements: legal and institutional environment, resources,

and quality awareness.

These elements and indicators are identified to reinforce the idea that data users, who often cannot replicate or otherwise verify data, must place their trust in the institutions that produce statistics and the people who staff them. Typically, these pointers refer to the larger institution (called the "umbrella institution" in the DQAF) of which the compiling unit, such as a national accounts division or a balance of payments department, is a part. Further, these prerequisites typically influence more than one of the five dimensions

in the DQAF.

**Source:** International Monetary Fund (IMF), "Data Quality Assessment Framework

(DQAF) Glossary"

**Hyperlink**:

**Related Terms:** 

## 247. Primary source

**<u>Definition</u>**: The organisation or individual responsible for the collection and aggregation

of data from the initial supplier.

**Context:** For information derived from surveys or censuses, such data comprise unit

record information about individual entities. For administrative data, the primary source is the agency responsible for the compilation of data from individual persons or organisations to meet administrative or regulatory

requirements.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Secondary supplier



# 248. Probability sample

**Definition:** A sample selected by a method based on the theory of probability (random

process), that is, by a method involving knowledge of the likelihood of any

unit being selected.

**Context:** 

**Source:** United Nations Statistics Division, "Handbook of Vital Statistics Systems

and Methods, Volume 1: Legal, Organisational and Technical Aspects", Studies in Methods, Series F, No. 35, United Nations, New York, 1991

**Hyperlink:** 

Related Terms: Non-probability sample

Sample

# 249. Processing error

**<u>Definition</u>**: The error in final survey results arising from the faulty implementation of

correctly planned implementation methods.

<u>Context</u>: Sources of processing errors include all post-collection operations, as well

as the printing of questionnaires. Most processing errors occur in data for

individual units, although errors can also be introduced in the

implementation of systems and estimates.

In survey data, for example, processing errors may include transcription errors, coding errors, data entry errors and errors of arithmetic in tabulation.

Source: United States Federal Committee on Statistical Methodology, "Statistical

Policy Working Paper 15: Quality in Establishment Surveys", Washington

D.C., July 1988, page 79

<u>Hyperlink</u>: http://www.fcsm.gov/working-papers/wp15.html

**Related Terms:** Data processing

Survey

#### 250. Product

**<u>Definition</u>**: Goods and services exchanged and used for various purposes, as inputs in

the production of other goods and services, as final consumption or for

investment.

**Context:** Products can be both the subject of statistics on production, and the

outcome of statistical processes, for example published results.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 



### 251. Professionalism

**Definition:** The standard, skill and ability suitable for producing statistics of good

quality.

**Context:** To retain trust in official statistics, the statistical agencies need to decide

according to strictly professional considerations, including scientific principles and professional ethics, on the methods and procedures for the collection, processing, storage and presentation of statistical data

(Fundamental Principles of Official Statistics, principle 2).

"Professionalism" describes the elements providing assurances that: statistics are produced on an impartial basis; elements providing

assurances that the choices of sources and statistical techniques as well as

decisions about dissemination are informed solely by statistical

considerations; elements providing assurances that the recruitment and promotion of staff are based on relevant aptitude; elements providing assurances that the statistical entity is entitled to comment on erroneous interpretation and misuse of statistics, guidelines for staff behaviour and procedures used to make these guidelines known to staff; other practices that provide assurances of the independence, integrity, and accountability

of the statistical agency.

This concept can be further broken down into: Professionalism - code of conduct; Professionalism - impartiality; Professionalism - methodology;

Professionalism - statistical commentary.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Integrity

Statistical Data and Metadata Exchange, SDMX

# 252. Property

**<u>Definition</u>**: A characteristic common to all members of an object class.

Context: Within SDMX, an "attribute property" allows ad hoc simple metadata

concepts, such as URL, to be specified for a metadata attribute, within the

context of a metadata structure definition.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: ISO/IEC 11179

Object class

#### 253. Provider load

**Definition:** The effort, in terms of time and cost, required for respondents to provide

satisfactory answers to a survey.

**Context:** This burden can lead to providers experiencing annoyance, anger, frustration,



etc., at being requested to participate, with escalation of these feelings generated by the complexity, length and/or frequency of surveys. The terms "respondent burden" and "respondent load" are also used to describe provider load.

**Source:** Australian Bureau of Statistics, Service Industries Statistics, "Glossary of Terms";

unpublished on paper

Hyperlink: http://www.abs.gov.au/CA25670D007E9EA1/0/DB35F160E9383A1FCA256B650

006C3D0?Open&Highlight=0,Glossary

**Related Terms:** 

## 254. Provision agreement

**Definition:** Arrangement within which the provider supplies data or metadata.

**Context:** The agreement may define the scope of the data or metadata that can be

provided.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 255. Public disclosure

**Definition:** The act of making information or data readily accessible and available to all

interested individuals and institutions.

**Context:** Some examples of the different forms that public disclosure may take

include: verbal or written statements released to a public forum, to the news media, or to the general public; publication in an official bulletin, gazette, report, or stand-alone document; and information posted on a website.

**Source:** Code of Good Practices on Transparency in Monetary and Financial

Policies, Part 1-Introduction; approved by the IMF Executive Board on July

24, 2000

**Hyperlink:** http://www.imf.org/external/np/mae/mft/sup/part1.htm#appendix\_III

**Related Terms:** 

### 256. Punctuality

**<u>Definition</u>**: Time lag between the actual delivery of the data and the target date when it

should have been delivered.

**Context:** Punctuality may be calculated, for instance, with reference to target dates

announced in an official release calendar, laid down by regulations or

previously agreed among partners.

In quality assessment, punctuality is often associated with timeliness, which refers to the time lag between the end of the reference period and the

release of data.



Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: SDMX, Statistical Data and Metadata Exchange

**Timeliness** 

#### 257. Qualitative data

**<u>Definition</u>**: Data describing the attributes or properties that an object possesses.

**Context:** The properties are categorized into classes that may be assigned numeric

values. However, there is no significance to the data values themselves;

they simply represent attributes of the object concerned.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** http://amrads.jrc.cec.eu.int/k-base/glossary/glossALL.htm

Related Terms: Quantitative data

### 258. Quality

**<u>Definition</u>**: The degree to which a set of inherent characteristics fulfils requirements.

**Context:** Quality is a multi-faceted concept. The dimensions of quality that are

considered most important depend on user perspectives, needs and priorities, which vary across groups of users. Several statistical organisations have developed lists of quality dimensions, which, for international organisations, are being harmonised under the leadership of the Committee for the Coordination of Statistical Activities (CCSA).

A generic list would include the following dimensions, all of which are

defined elsewhere in the Metadata Common Vocabulary:

Relevance Accuracy Timeliness Punctuality Accessibility

Clarity / interpretability

Comparability Coherence Integrity Credibility

Methodological soundness

Source: ISO 9000/2005: Quality Management and Quality Assurance Vocabulary

**Hyperlink:** 

Related Terms: Accuracy

Quality differences Quality management

Relevance Reliability



Special Data Dissemination Standard, SDDS Timeliness

### 259. Quality control survey

**Definition:** A survey usually carried out on a small scale by experienced staff in order

to validate the results of a larger survey or statistics compiled from non-

statistical sources.

**Context**:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

### 260. Quality differences

**<u>Definition</u>**: Differences in the various dimensions of data quality promulgated by

international organisations and national agencies.

**Context:** Comparisons of these dimensions may be made for data between

countries, for the same series over time or between the same series

compiled by different agencies in the same country.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Quality

# 261. Quality index

**Definition:** A one-dimension synthetical information on quality, possibly calculated as a

weighted mean of all available quality indicators.

**Context:** 

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

**Hyperlink:** 

**Related Terms:** 

# 262. Quality management

**<u>Definition</u>**: Systems and frameworks in place within an organisation to manage the

quality of statistical products and processes.

**Context:** "Quality management" refers to the application of a formalised system that



documents the structure, responsibilities and procedures put in place for satisfying users, while continuing to improve the data production and dissemination process. It also includes how well the resources meet the requirement.

This concept can be broken down into: "Quality management - quality assurance"; "Quality management - assessment"; "Quality management - documentation".

"Quality assurance" refers to all the planned and systematic activities implemented that can be demonstrated to provide confidence that the processes will fulfil the requirements for the statistical output. This includes the design of programmes for quality management, the description of planning process, scheduling of work, frequency of plan updates, and other organisational arrangements to support and maintain planning function.

"Quality assessment" contains the overall assessment of data quality, based on standard quality criteria. This may include the result of a scoring or grading process for quality. Scoring may be quantitative or qualitative.

"Quality documentation" contains documentation on methods and standards for assessing data quality, based on standard quality criteria such as relevance, accuracy and reliability, timeliness and punctuality, accessibility and clarity, comparability, and coherence.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Quality

#### 263. Quantitative data

**<u>Definition</u>**: Data expressing a certain quantity, amount or range.

Context:

Source: Economic Commission for Europe of the United Nations (UNECE),

"Glossary of Terms on Statistical Data Editing", Conference of European

Statisticians Methodological material, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/editingglossary.pdf

Related Terms: Flag

Qualitative data

#### 264. Questionnaire

**<u>Definition</u>**: A group or sequence of questions designed to elicit information on a

subject, or sequence of subjects, from a reporting unit or from another

producer of official statistics.

**Context:** 

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Questionnaire design



Schedule Survey

### 265. Questionnaire design

**Definition:** The design (text, order, and conditions for skipping) of the questions used

to obtain the data needed for the survey.

**Context:** 

**Source:** United States Bureau of the Census, Software and Standards Management

Branch, Systems Support Division, "Survey Design and Statistical Methodology Metadata", Washington D.C., August 1998, Section 3.3.17,

page 26

**Hyperlink:** http://www.census.gov/srd/www/metadata/metada18.pdf

Related Terms: Questionnaire

Survey design

#### 266. Ratio estimation

**<u>Definition</u>**: The use of known population totals for auxiliary variables to improve the

weighting from sample values to population estimates.

**Context:** Ratio estimation operates by comparing the survey sample estimate for an

auxiliary variable with the known populati The ratio weights are given by X/x (where X is the known population total for the auxiliary variable, and x is the corresponding estimate of the total based on all responding units in the sample). These weights assume that the population total for the variable of interest will be estimated by the sample equally as well (or poorly) as the population total for the auxiliary variable is estimated by the sample. Ratio estimation can be more accurate than number-raised estimation if the auxiliary variable is highly correlated with the variable of interest. However it is slightly biased, with the bias increasing for smaller sample sizes and

where there is lower correlation between the auxiliary

**Source:** Australian Bureau of Statistics, Statistical Concepts Library, "Labour

Statistics: Concepts, Sources and Methods", Chapter 16 - Overview of

Survey Methods, Canberra, 2001

**Hyperlink**:

**Related Terms**: Estimation

Weight

# 267. Receiving organisation

**Definition:** Agency that receives data from one or more sending agencies during a data

exchange.

**Context:** There can be more than one receiving agency for a single data exchange.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/



#### **Related Terms:**

#### 268. Recommended use of data

**<u>Definition</u>**: Text that is intended to provide users with explicit information on the

appropriate use of the statistics within the limitations imposed by the definition or main concepts, scope and coverage, collection methodology,

etc.

Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 269. Record check

**<u>Definition</u>**: A study in which data on individual units, obtained by one method of data

collection, are checked against data for the same units from available

records, obtained by a different method of data collection.

**Context:** An example of record check is the comparison of ages as reported in a

census with information from birth certificates.

Source: Lessler, J.T. and Kalsbeek, W.D. (1992), "Non Sampling Error in Survey",

New York: John Wiley or US department of Commerce (1978), "Glossary of

Non Sampling Error Terms: An Illustration of a Semantic Problem in

Statistics", Statistical Policy Working Pape

**Hyperlink:** 

**Related Terms:** 

# 270. Recording basis

**Definition:** Processes and standards employed in calculating statistical aggregates.

**Context**: The recording of transactions covers a broad range of processes and

accounting conventions, including types of valuation, prices, conversion rates, the accounting basis, units of measurement used in data collection, etc. It also refers to descriptions of the time of recording (e.g. cash or accrual basis) employed. The description may also include how consistent the practices used are with internationally accepted standards, guidelines,

or good practices.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 



# 271. Recording of transactions

**Definition:** A broad range of processes and standards employed in calculating

statistical aggregates.

**Context:** The conventions include types of valuation, prices, conversion rates, the

accounting basis, units of measurement used in data collection, etc.

Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

**Related Terms**:

# 272. Record-keeping error

**<u>Definition</u>**: An error which arises from inaccuracy in the records used for responses.

Context:

**Source:** Lessler, J.T. and Kalsbeek, W.D. (1992), "Non Sampling Error in Survey",

New York: John Wiley or US department of Commerce (1978), "Glossary of

Non Sampling Error Terms: An Illustration of a Semantic Problem in

Statistics", Statistical Policy Working Pape

**Hyperlink**:

**Related Terms:** 

### 273. Reference area

**Definition:** The country or geographic area to which the measured statistical

phenomenon relates.

**Context:** The concept refers to the country, geographical or political group of

countries or regions within a country.

The concept is subject to a variety of hierarchies, as countries comprise territorial entities that are States (as understood by international law and practice), regions and other territorial entities that are not States (such as Hong Kong) but for which statistical data are produced internationally on a

separate and independent basis.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** Counterpart reference area

Geographical coverage

#### 274. Reference document

**<u>Definition</u>**: A document that provides pertinent details for consultation about a subject.



Context: Attributes of Reference document:

Reference document identifier is an identifier for the Reference document

Reference document language identifier is the identifier of the natural or

special language used in the Reference document

Reference document title is the title of the Reference document

Reference document type description is a description of the type of

Reference document.

Reference documents can be publications (hardcopy, electronic), other databases (internal, external), Internet (Internet addresses), methodological

references (for instance to summary metadata, detailed metadata,

information on major changes).

ISO/IEC Committee Draft 11179-3: 2007, Information technology -Source:

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

ISO/IEC 11179 **Related Terms:** 

#### 275. Reference metadata

Metadata describing the contents and the quality of the statistical data. **Definition:** 

Context: Preferably, reference metadata should include all of the following: a)

"conceptual" metadata, describing the concepts used and their practical implementation, allowing users to understand what the statistics are measuring and, thus, their fitness for use; b) "methodological" metadata, describing methods used for the generation of the data (e.g. sampling, collection methods, editing processes); c) "quality" metadata, describing the

different quality dimensions of the resulting statistics (e.g. timeliness,

accuracy).

SDMX (2009) Source:

Hyperlink: http://www.sdmx.org/

**Related Terms:** Concept scheme

> **Cross-domain Concepts** Metadata structure definition

SDMX Registry Statistical metadata Structural metadata

### 276. Reference period

The period of time or point in time to which the measured observation is **Definition:** 

intended to refer.

Context: In many cases, the reference period and time period will be identical, but

> there are also cases where they are different. This can happen if data are not available for the target reference period, but are available for a time period which is judged to be sufficiently close. For example, the reference



period may be a calendar year, whereas data may only be available for a fiscal year. In such cases, "reference period" should refer to the target reference period rather than the actual time period of the data. The

difference between target and actual reference period can be highlighted in

a free text note.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Accounting conventions

Base period

Compilation practices

Observation Period

Statistical processing

Time period

#### 277. Reference time

See "Reference period"

#### 278. Refusal rate

**Definition:** The proportion of observation units for which the reporting unit has been

successfully contacted, but has refused to give the information sought.

**Context:** The proportion is usually and preferably calculated by dividing the number

of refusals by the total number of the sample which was originally desired to

achieve.

Observation and reporting units are often (but not always) the same entity.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Item response rate

Non-response Non-response rate Response rate

### 279. Register

**<u>Definition</u>**: Data store where registered items are recorded and managed.

**Context:** A register is a written and complete record containing regular entries of

items and details on particular set of objects (Economic Commission for Europe of the United Nations (UNECE), "Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and

Studies, No. 53, Geneva, 2000,

http://www.unece.org/stats/publications/53metadaterminology.pdf).
A statistical register is a regularly updated list of units and their



characteristics to be used for statistical purposes. In some cases statistical registers may hold characteristics that are deemed by the appropriate legislation not to be subject to statistical confidentiality. In such cases, there

may be non-statistical uses of data relating to these characteristics.

ISO/IEC Committee Draft 11179-3: 2007, Information technology -Source:

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink:** 

ISO/IEC 11179 **Related Terms:** 

Registration authority

### 280. Registrar

**Definition:** A representative of a Registration authority.

Registrar contact is the contact information associated with a Registrar. Context:

Registrar identifier is an identifier for the Registrar.

ISO/IEC International Standard 11179, Part 1, Framework for the Source:

specification and standardization of data elements, March 2004

**Hyperlink:** 

**Related Terms:** ISO/IEC 11179

> Registration authority SDMX Registry

# 281. Registration

**Definition:** The records relating to an administered item and its transactions with the

registration authority with respect to a specific register.

Context:

SDMX (2009) Source:

http://www.sdmx.org/ Hyperlink:

**Related Terms:** Administered item

ISO/IEC 11179 Registration authority

Registry

SDMX Registry

# 282. Registration authority

Organization responsible for maintaining a register. **Definition:** 

Context: Registration authority identifier is an identifier assigned to a registration

> authority. Registration authority registrar is the relationship between a Registration Authority and a Registrar. A registration status is a designation

of the status in the registration life-cycle of an administered item.



Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: ISO/IEC 11179

Permissible value

Register Registrar Registration

# 283. Registry

**<u>Definition</u>**: An application which stores metadata for querying, and which can be used

by any other application in the network with sufficient access privileges.

**Context:** A registry can be understood as the index of a database or metadata

repository which is made up of all the data providers' data sets and reference metadata sets within a statistical community, distributed across the Internet or similar network. Note that the registry services are not concerned with the storage of data. The registry services concern

themselves with providing visibility of the data and reference metadata, and

information needed to access the data and reference metadata.

Querying: The registry has interfaces for querying the metadata it contains, so that applications and users can discover the existence of data sets and reference metadata sets, structural metadata, the providers/agencies associated with those objects, and the provider agreements which describe

how the data and metadata are made available, and how they are

categorized.

Subscription/Notification: It is possible to subscribe to specific objects in the registry, so that a notification will be sent to all subscribers whenever the

registry objects are updated.

Registration (structural metadata submission): A registry service which allows users to inform the registry that data sets, reference metadata sets,

structural metadata, or data provisioning information.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Metadata item

Metadata registry Registration

3 -- - - -

# 284. Registry item

**Definition:** Metadata item recorded in a Registry.

Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/



Related Terms: Administered item

ISO/IEC 11179 Metadata item Metadata registry

### 285. Registry metamodel

**<u>Definition</u>**: A metamodel specifying a metadata registry.

**Context**:

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: ISO/IEC 11179

Metadata registry Metamodel

### 286. Related data reference

**<u>Definition</u>**: A reference between a data element and any related data.

**Context:** 

Source: ISO/IEC International Standard 11179, Part 1, Framework for the

specification and standardization of data elements, March 2004

**Hyperlink**:

Related Terms: Data element

ISO/IEC 11179

### 287. Related metadata reference

**Definition:** A reference from one metadata item to another.

**Context:** A Registration Authority could choose to use a Reference Document, an

administrative note or an explanatory comment to record a related metadata

reference.

Source: ISO/IEC Committee Draft 11179-3: 2007, Information technology -

Metadata Registries (MDR) - Part 3: Registry Metamodel and basic

attributes, August 2007

**Hyperlink**:

Related Terms: ISO/IEC 11179

Metadata item



### 288. Relationship

**<u>Definition</u>**: A connection among model elements.

**Context:** In ISO/IEC 11179-3, "Registry metamodel and basic attributes", a

relationship is either an association or a generalization.

"Association" is a semantic relationship between two classes.

"Generalization" is a relationship between a more general class (the parent) and a more specific class (the child) that is fully consistent with the first class (i.e. it has all of its attributes and relationships) and that adds

additional information. A relationship between a Data element example and its Data element is called an "Examplification"

its Data element is called an "Exemplification".

**Source**: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink:** 

Related Terms: ISO/IEC 11179

### 289. Release policy

**<u>Definition</u>**: Rules for disseminating statistical data to interested parties.

**Context:** Describes the policy for release of the data to the public, how the public is

informed that the data are being released, and whether the data are

disseminated to all interested parties at the same time.

This concept can be broken down into: Release policy - legal acts and other agreements; Release policy - policy commentary; Release policy - release calendar; Release policy - release calendar access; Release policy -

transparency; Release policy - user access.

"Legal acts and other agreements" refers to the legal acts and other agreements pertaining to data access. It involves the description of the legal and institutional framework defining which users have access to what data, on what conditions, and on what time schedule. "Policy commentary" refers to the fact whether or not ministerial commentary is provided on the occasion of statistical release. This concept relates to policy commentary that other authorities might add to the data released to the public.

"Release calendar" refers to the schedule of statistical release dates. An advance release calendar is the schedule for release of data, which is publicly disseminated so as to provide prior notice of the precise release dates on which a national statistical agency, other national agency, or international organization undertakes to release specified statistical information to the public.

"Release calendar access" refers to the access to the release calendar information (how the calendar can be accessed).

"Transparency" refers to the dissemination of the release policy to the public. It concerns whether the description of the release policy is disseminated to the public and by what modality, but not the description of the release policy itself.

"User access" refers to the policy for release of the data to users, the scope of dissemination (eg, to the public, to selected users), how users are informed that the data are being released, and whether the policy provides



for the dissemination of statistical data to all users at the same time. It also describes the policy for briefing the press in advance of the release of the

data.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Timeliness

#### 290. Relevance

**<u>Definition</u>**: The degree to which statistics meet current and potential users' needs.

Context:

Relevance is concerned with whether the available information sheds light on the issues that are important to users. Assessing relevance is subjective and depends upon the varying needs of users. The Agency's challenge is to weight and balance the conflicting needs of current and potential users to produce statistics that satisfy the most important needs within given resource constraints. In assessing relevance, one approach is to gauge relevance directly, by polling users about the data. Indirect evidence of relevance may be found by ascertaining where there are processes in place to determine the uses of data and the views of their users or to use the data in-house for research and other analysis. Relevance refers to the processes for monitoring the relevance and practical usefulness of existing statistics in meeting users" needs and how these processes impact the development of statistical programmes.

This concept can be broken down into: "Relevance - completeness"; "Relevance - user needs"; "Relevance - user satisfaction".

"Completeness" refers to the extent to which all statistics that are needed are available. The measurement of the availability of the necessary statistics normally refers to data sets and compares the required data set to the available one.

"User Needs" refers to the description of users and their respective needs with respect to the statistical data. The main users (e.g. official authorities, the public or others) and user needs should be stated, e.g. official authorities with the needs for policy indicators, national users, etc.

"User Satisfaction" refers to the measure to determine user satisfaction. This concerns how well the disseminated statistics meet the expressed user needs. If user satisfaction surveys have been conducted, the domain manager should mention them. Otherwise, any other indication or measure to determine user satisfaction might be used.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** Quality

Serviceability

# 291. Reliability

**<u>Definition</u>**: Closeness of the initial estimated value to the subsequent estimated value.



**Context:** 

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Accuracy

Estimate Quality

### 292. Reporting agency

**<u>Definition</u>**: The organisation that supplies the data for a given instance of the statistics.

Context:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Reporting unit

# 293. Reporting unit

**Definition:** The unit that supplies the data for a given survey instance.

**Context:** If an accountant provides data for several businesses, each of which have

been selected for a statistical survey, the accountant is the reporting unit,

whereas the individual businesses are observation units.

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European

Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

<u>Hyperlink</u>: http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** Reporting agency

Survey

# 294. Respondent burden

See "Provider load"

# 295. Respondent load

See "Provider load"



### 296. Response error

**Definition:** Error arising from the interviewing process.

**Context:** Response error can result from a number of circumstances, such as the

following:

- inadequate concepts or questions;

inadequate training;interviewer failures;

- respondent failures.

Response error may result from the failure of the respondent to report the correct value (respondent error), the failure of the interviewer to record the value reported correctly (interviewer error), or the failure of the instrument to measure the value correctly (instrument error). (United States Federal Committee on Statistical Methodology, "Statistical Policy Working Paper 15: Quality in Establishment Surveys", Washington D.C., July 1988, page 57)

**Source:** Statistical Office of the United Nations, "Handbook of Household Surveys,

Revised Edition", (para. 8.6), Studies in Methods, Series F, No. 31, United

Nations, New York, 1984

**Hyperlink**:

**Related Terms:** 

### 297. Response rate

**<u>Definition</u>**: The number of observation units for which data have been received, as a

proportion of the number of observation units for which data was sought.

**Context:** Usually response rate is expressed as a percentage. The response rate can

also apply to individual questions.

**Source**: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

**Related Terms**: Item response rate

Non-response rate

Refusal rate

# 298. Revision policy

See "Data revision"

# 299. Sample

**<u>Definition</u>**: A subset of a frame where elements are selected based on a process with a

known probability of selection.



**Context:** 

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Census

Non-response rate Probability sample Sample design Sample size Sample survey Sampling

Sampling fraction
Sampling technique

Schedule Stratification

### 300. Sample design

**Definition:** Design that provides information on the target and final sample sizes, strata

definitions and the sample selection methodology.

**Context:** The usage is not uniform as regards the precise meaning of this and similar

terms like "sample plan", "survey design", "sampling plan" or "sampling design". These cover one or more parts constituting the entire planning of a sample survey inclusive of processing, etc. The term "sampling plan" may be restricted to mean all steps taken in selecting the sample; the term "sample design" cover in addition the method of estimation; and "survey design" may cover also other aspects of the survey, e.g. choice and training of interviewers, tabulation plans, etc. "Sample design" is sometimes used in a clearly defined sense, with reference to a given frame, as the set of rules or specifications for the drawing of a sample in an unequivocal manner (The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003)

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, May 2002

**Hyperlink:** 

Related Terms: Sample

Survey design

# 301. Sample size

**<u>Definition</u>**: The number of observation units which are to be included in the sample.

**Context:** In the case of a multi-stage sample this number refers to the number of

units at the final stage in the sampling.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

Related Terms: Sample



Sampling

Sampling fraction

### 302. Sample survey

**<u>Definition</u>**: A survey which is carried out using a sampling method.

<u>Context</u>: In sample survey only a portion, and not the whole population is surveyed.

<u>Source</u>: The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

Related Terms: Sample

Survey

# 303. Sampling

**<u>Definition</u>**: The process of selecting a number of cases from all the cases in a

particular group or universe.

**Context:** Refers to information on sample design, sample size, sample frame, sample

updating, etc.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms**: Area sampling

Sample Sample size Sampling error

# 304. Sampling error

**Definition:** That part of the difference between a population value and an estimate

thereof, derived from a random sample, which is due to the fact that only a

a subset of the population is enumerated.

**Context:** Sampling errors are distinct from errors due to imperfect selection, bias in

response or estimation, errors of observation and recording, etc.

For probability sampling, the random variation due to sampling can be calculated. For non-probability sampling, random errors cannot be

calculated without reference to some kind of model. The totality of sampling errors in all possible samples of the same size generates the sampling distribution of the statistic which is being used to estimate the parent value.

Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

Related Terms: Non-sampling error

Sampling



# 305. Sampling fraction

**<u>Definition</u>**: The ratio of the sample size to the population size.

Context:

**Source:** Statistics Canada, "Statistics Canada Quality Guidelines", 4th edition,

October 2003, page 23

Hyperlink: http://www.statcan.ca:8096/bsolc/english/bsolc?catno=12-539-

X&CHROPG=1

**Related Terms**: Sample

Sample size

### 306. Sampling frame

See "Frame"

# 307. Sampling technique

**<u>Definition</u>**: The name or other identification of the specific process by which the entities

of the sample have been selected.

Context:

**Source:** United States Bureau of the Census, Software and Standards Management

Branch, Systems Support Division, "Survey Design and Statistical

Methodology Metadata", Washington D.C., August 1998, Section 3.3.23,

page 32

**Hyperlink:** http://www.census.gov/srd/www/metadata/metada18.pdf

Related Terms: Sample

### 308. Schedule

**<u>Definition</u>**: Synonym of questionnaire, in the theory of sample surveys.

**Context:** A schedule occurs in the specialized sense of a group, or sequence, of

questions designed to elicit information upon a subject. Usually, it is completed by an investigator on the basis of information supplied by the particular member of the population chosen for inclusion in the sample, but sometimes it is completed by that member him- or herself, as in postal

enquiries.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/



**Related Terms:** Questionnaire

Sample Survey

309. Scope

**Definition:** The coverage or sphere of what is to be observed. It is the total

membership or population of a defined set of people, objects or events.

**Context:** Scope describes the coverage of the statistics and how consistent this is

with internationally accepted standards, guidelines, or recommended practices. The scope includes a description of target population, and geographic, sector, institutional, item, population, product, and other

coverage.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

**Related Terms**: Coverage

Out-of-scope units Statistical population

### 310. SDMX, Statistical Data and Metadata Exchange

**Definition:** Set of technical standards and content-oriented guidelines, together with an

IT architecture and tools, to be used for the efficient exchange and sharing

of statistical data and metadata.

**Context:** Seven organisations (Bank of International Settlements, European Central

Bank, Eurostat, International Monetary Fund, Organisation for Economic Co-operation and Development, United Nations Statistical Division and

World Bank) act as sponsors of SDMX.

The first version of the SDMX technical standard (1.0, finalised in 2004) has been approved as an ISO standard (ISO/TS 17369:2005). SDMX V2.0 was

also approved by the sponsors in 2005.

Public consultations on the content-oriented guidelines were conducted in 2006 and in 2008, with the aim of compiling guidelines on cross-domain concepts and code-lists, statistical subject-matter domains and the metadata common vocabulary. The first set of content-oriented guidelines

was finalised at the end of 2008 to be published in January 2009.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Concept scheme

Cross-domain Concepts

Contact

Data presentation Dissemnination format

Frequency Professionalism Punctuality



Registry SDMX-EDI SDMX-ML SDMX Registry Simultaneous release Statistical processing

### 311. SDMX Registry

See "Registry"

### 312. SDMX-EDI

**Definition:** EDIFACT format for exchange of SDMX-structured data and metadata.

**Context:** The SDMX-EDI format is drawn from the GESMES/TS version 3.0

implementation guide, as published as a standard of the SDMX initiative. SDMX-EDI is a message designed for the exchange of statistical information between organisations in a platform independent manner.

The message implements a data exchange model (SDMX INFORMATION Model) which provides for the exchange of time series identified through a multi-dimensional key and a variety of associated metadata. It employs an appropriate GESMES profile and, for the version described in this Guide, the EDIFACT syntax. Though GESMES is a generic statistical data model which affords sufficient flexibility to describe syntactically virtually any statistical data model, SDMX-EDI has a fixed syntax. This allows partner institutions to design and to build the applications needed to "read" and "write" SDMX-EDI messages, avoiding intermediate files and special translators; the design of the read/write applications is further simplified by eliminating genericity which is not needed when exchanging time series data. Due to the fixed syntax, in most cases, the rules used in SDMX-EDI are stronger and more restrictive than those in generic GESMES. However, the current design allows the possibility of future enhancements and

progressive generalisation, if this is needed, upon agreement of the parties

involved.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: EDIFACT

SDMX-ML

Statistical Data and Metadata Exchange, SDMX

#### **313. SDMX-ML**

**<u>Definition</u>**: XML format for the exchange of SDMX-structured data and metadata.

**Context:** The SDMX package contains normative sections describing the use of the

XML syntax in SDMX messages, and is accompanied by a set of XML

schemas and sample XML document instances.



Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

Related Terms: SDMX-EDI

Statistical Data and Metadata Exchange, SDMX

**XML** 

### 314. Seasonal adjustment

**<u>Definition</u>**: A statistical technique to remove the effects of seasonal calendar influences

operating on a series.

**Context:** Seasonal effects usually reflect the influence of the seasons themselves

either directly or through production series related to them, or social conventions. Other types of calendar variation occur as a result of

influences such as number of days in the calendar period, the accounting or recording practices adopted or the incidence of moving holidays (such as

Easter).

Seasonally adjusted series are data series that have been subjected to a seasonal adjustment process. In other words, the effects of regular, or seasonal, patterns have been removed from the series. Where appropriate, series are also corrected for calendar variations (e.g. workdays per month)

and constrained for annual coherency.

A good description of seasonal adjustment methods entails the availability, publication, and level at which seasonal adjustment takes place, the methods used and an indication regarding which data series the methods are applied to (e.g. aggregate series derived from lower-level seasonally-adjusted series versus independently adjusted; adjusted at 1-digit SITC level using X-11 method and aggregated to totals; seasonal adjustment is conducted on four components of final expenditures after annual balancing and then aggregated to total GDP), and on consumer and producer price

indexes.

**Source:** Australian Bureau of Statistics, "An Analytical Framework for Price Indexes

in Australia: Glossary and References", Canberra, 1997

Hyperlink: http://www.abs.gov.au

Related Terms: Adjustment

Compilation practices Statistical processing

# 315. Secondary supplier

**Definition:** The organisation or individual other than those responsible for the collection

and aggregation of data from the initial source.

**Context:** Secondary sources may redistribute information received from the primary

source either in their initial form or after some transformation including further aggregation, reclassification or other manipulation such as seasonal

adjustment.

Source: SDMX (2009)



**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Primary source

### 316. Semantics

**<u>Definition</u>**: The branch of linguistic science which deals with the meaning of words.

**Context:** 

Source: ISO/IEC CD 11179-5 "Information technology - Metadata registries (MDR) -

Part 5: Naming and identification principles", January 2004

**Hyperlink:** 

Related Terms: ISO/IEC 11179

Syntax

# 317. Sending organisation

**<u>Definition</u>**: Agency that sends data to one or more receiving agencies during a data

exchange.

**Context:** There can be more than one sending agency for a single data exchange.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms:** 

# 318. Serviceability

**<u>Definition</u>**: Practical aspects of how well the available data meet users' needs.

**Context:** Serviceability is a term that captures the practical aspects of usability of

data. The emphasis on "use" thus assumes that data are available. Thus,

key aspects of usability are relevance, timeliness and frequency,

consistency, and revision policy and practices.

**Source:** International Monetary Fund (IMF), "Data Quality Assessment Framework

(DQAF) Glossary"

**Hyperlink**:

**Related Terms:** Consistency

Relevance

#### 319. Sex

**Definition:** The state of being male or female.



Context: This concept is applied if data needs to be categorised by sex. The concept

is in general coded, i.e. represented through a code list.

SDMX (2009) Source:

**Hyperlink**: http://www.sdmx.org

**Related Terms:** 

### 320. Sibling group

**Definition:** A set of time series whose keys differ only in the value taken by the

frequency dimension.

Within an ETS (exchanged time series) in GESMES/TS, a sibling group is **Context:** 

uniquely identified by a data set identifier combined with the sibling group

key.

European Central Bank (ECB), Bank for International Settlement (BIS), Source:

> Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide",

Release 3.00, February, 2003; unpublished on paper

http://www.sdmx.org/Data/GesmesTS rel3.pdf Hyperlink:

**Related Terms:** Data set

**GESMES/TS** 

Kev

Time series

#### 321. Simultaneous release

The dissemination of statistical data to all interested parties at the same **Definition:** 

time.

Simultaneous release describes the policy for release of the data to the Context:

> public, how the public is informed that the data are being released, and whether the policy provides for the dissemination of statistical data to all interested parties at the same time. It also describes the policy for briefing

the press in advance of the release of the data.

According to the Fundamental Principles of Official Statistics, the release has to be simultaneous for all users. It is recommended to pre-announce the date of release. Simultaneous release (to all interested parties) is an element of the principle of ready and equal access to official statistics by the public that strengthens transparency in data dissemination practices.

Source: SDMX (2009)

http://www.sdmx.org/ Hyperlink:

**Related Terms:** Accessibility

SDMX, Statistical Data and Metadata Exchange



#### 322. Source

**<u>Definition</u>**: A specific data set, metadata set, database or metadata repository from

where data or metadata are available.

**Context:** The term source is often used as a synonym for "data provider". However,

in the context of SDMX, data provider is the organisation or individual from

where statistics are obtained.

The term "source" refers to the origins, characteristics and components of the raw data used for compiling statistical aggregates. Sources can be distinguished according to the following classification:

- Statistical source - data collected exclusively for statistical purposes, including data from statistical registers, statistical surveys (including censuses), and other official statistical agencies, as well as data from combinations of these sources.

- Non-statistical source- data not primarily collected for statistical purposes, including data from administrative sources, commercial sources and automatic monitoring and recording devices.

- Mixed source- data from a combination of statistical and non-statistical sources.

An alternative approach is to divide sources into primary sources (the organisation responsible for the original data collection and aggregation) and secondary sources (organisations that re-distribute data received from primary sources either in their initial form or after some transformation).

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

#### 323. Source data

<u>Definition</u>: Characteristics and components of the raw statistical data used for

compiling statistical aggregates.

**Context:** The type of source, including whether it is a statistical or non-statistical

source, and any relevant characteristics (e.g. sample size for survey data,

or characteristics of administrative data) should be mentioned.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

# 324. Special Data Dissemination Standard, SDDS

**Definition:** Standard for data dissemination established by the International Monetary

Fund.

**Context:** The Special Data Dissemination Standard (SDDS) was established by the



International Monetary Fund (IMF) to guide members that have, or that might seek, access to international capital markets in the provision of their economic and financial data to the public. Subscription to the SDDS was

opened in April 1996.

**Source:** International Monetary Fund (IMF), "Guide to the Data Dissemination

Standards, Module 1: The Special Data Dissemination Standard",

Washington, May 1996

**Hyperlink:** http://dsbb.imf.org/Applications/web/getpage/?pagename=legaltext

Related Terms: Accounting conventions

Adjustment

Analytical framework

Base period Coverage Data

Data reconcilation
Data status
Dissemination

Dissemination standard

Estimation

General Data Dissemination System, GDDS

Integrity ISO/IEC 11179 Language

Metadata dimension

Microdata

Ministerial commentary Pre-release access

Periodicity Terminology

Standard classification Statistical processing

Quality

#### 325. Standard classification

**<u>Definition</u>**: Classifications that follow prescribed rules and are generally recommended

and accepted.

**Context:** Standard classifications aim to ensure that information is classified

consistently regardless of the collection, source, point of time etc.

In the international context, standard classifications include ISIC, ISCO, CPC, NACE, etc. Many national statistical systems also have their own versions of standard classifications, which in the main are consistent with international standard classifications, though modified to meet national

circumstances.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

Related Terms: Classification

Special Data Dissemination Standard, SDDS



### 326. Standard error

**<u>Definition</u>**: The positive square root of the variance of the sampling distribution of a

statistic.

**Context:** It includes the precision with which the statistics estimates the relevant

parameter as contrasted with the standard deviation that describes the

variability of primary observations.

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

**Related Terms:** 

# 327. Statistical activity

**<u>Definition</u>**: The collection, storage, transformation and distribution of statistical

information.

**Context:** Non-statistical activities carried out by the staff of a statistical agency in

support of the statistical business process, e.g. finance or human resource

management, can be referred to as support activities.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

# 328. Statistical business process

**<u>Definition</u>**: The complete set of sub-processes needed to support statistical production.

Context: The statistical business process is described in Eurostat's Cycle de Vie des

Données (CVD) model, and the Generic Statistical Business Process Model, being developed by the METIS group on statistical metadata.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

### 329. Statistical concept

**Definition:** A statistical characteristic of data.

**Context:** In SDMX, "Statistical concepts and definitions" refer to the internationally

accepted statistical standards, guidelines, or recommended practices on which the concepts and definitions that are used for compiling the statistics



are based. It also refers to the description of deviations of the concepts and definitions from accepted statistical standards, guidelines, or good practices, when relevant. This should define the statistical concept under measure and the organisation of data, i.e. the type of variables included in the domain of study.

A statistical concept is either coded or uncoded. A coded statistical concept takes values from a code list of valid values. For example, a coded statistical concept called "reporting country" might be created, taking its values from the ISO list of country codes. A code list may supply the values of more than one statistical concept. An uncoded statistical concept takes its values as free form text (e.g. time series title).

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms**: Attribute

Characteristic Code list Concept

Concept scheme
Data structure definition

Dimension GESMES/TS

International statistical standard

Key structure
Observation
Structural definition

### 330. Statistical error

**Definition:** The unknown difference between the retained value and the true value.

**Context:** It is immediately associated with accuracy since accuracy is used to mean

"the inverse of the total error, including bias and variance" (Kish L., "Survey Sampling", John Wiley, New York 1965). The larger the error, the lower the

accuracy.

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

Hyperlink:

Related Terms: Accuracy

#### 331. Statistical indicator

**<u>Definition</u>**: A data element that represents statistical data for a specified time, place,

and other characteristics, and is corrected for at least one dimension

(usually size) to allow for meaningful comparisons.

**Context:** A simple aggregation such as the number of accidents, total income or

women Members of Parliament, is not in itself an indicator, as it is not

comparable between populations. However, if these values are

standardized, e.g. number of accidents per thousand of population, average



income, or women Members of Parliament as a percentage of the total, the

result meets the criteria for an indicator.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms:** 

#### 332. Statistical information

**<u>Definition</u>**: Aggregated or unit-level information obtained through statistical activities.

Context: Statistical information includes semantic descriptions (metadata) needed for

interpretation of these data.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms:** 

#### 333. Statistical macrodata

**<u>Definition</u>**: An observation data gained by a purposeful aggregation of statistical

microdata conforming to statistical methodology.

**Context:** Macrodata is data derived from microdata by statistics on groups or

aggregates, such as counts, means, or frequencies. (United States Bureau of the Census, Software and Standards Management Branch, Systems Support Division, "Survey Design and Statistical Methodology Metadata",

Washington D.C., August 1998, Section 3.4.4, page 39).

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European

Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Statistical microdata

#### 334. Statistical measure

**<u>Definition</u>**: A summary (means, mode, total, index, etc.) of the individual quantitative

variable values for the statistical units in a specific group (study domains).

Context:

**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

**Hyperlink:** 

**Related Terms:** 



# 335. Statistical message

**Definition:** A message carrying statistical data.

**Context**: A statistical message is a predefined and agreed way of representing

syntactically sets of statistical data, attributes and structural definitions

which need to be exchanged between partners.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms:** Data exchange

GESMES

### 336. Statistical metadata

**Definition:** Data about statistical data.

**Context**: Statistical metadata comprise data and other documentation that describe

objects in a formalised way (Economic Commission for Europe of the United Nations (UNECE), "Terminology on Statistical Metadata",

Conference of European Statisticians Statistical Standards and Studies, No.

53, Geneva, 2000,

http://www.unece.org/stats/publications/53metadaterminology.pdf)

They provide information on data and about processes of producing and using data. Statistical metadata describe statistical data and - to some extent - processes and tools involved in the production and usage of statistical data (UNECE, "Guidelines for the Modelling of Statistical Data

and Metadata", 1995).

Statistical metadata can be classified in various ways, but there is a clear high-level distinction between the metadata needed to search for and display data (Structural metadata) and the metadata that give more

information on definitions, methodologies, processes and quality (Reference

metadata).

**Source:** United Nations Statistical Commission and Economic Commission for

Europe of the United Nations (UNECE), "Guidelines for the Modeling of Statistical Data and Metadata", Conference of European Statisticians,

Methodological material, United Nations, Geneva,

**Hyperlink**: http://www.unece.org/stats/publications/metadatamodeling.pdf

Related Terms: Metadata

Metadata layer Metadata registry Reference metadata Statistical metadata system Statistical metainformation

Structural metadata



# 337. Statistical metadata system

**Definition:** A data processing system that uses, stores and produces statistical

metadata.

Context:

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Metadata

Metadata layer Statistical metadata Statistical metainformation

### 338. Statistical metainformation

**<u>Definition</u>**: Knowledge of objects described by statistical metadata.

Context:

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Metadata layer

Statistical metadata

Statistical metadata system Statistical metainformation system

# 339. Statistical metainformation system

<u>Definition</u>: System which uses and produces statistical metadata and which fulfils its

tasks by means of functions like "statistical metadata collection", "statistical metadata processing", "statistical metadata storage" and "statistical

metadata dissemination".

**Context:** A metainformation system may be active or passive. An active

metainformation system is physically integrated with the information system containing the data that the metadata in the metainformation system informs about. A passive metainformation system contains only references to data, not the data themselves (United Nations Economic Commission for

Europe/United Nation Statistical Commision (UNECE/UNSC), "Guidelines for the Modelling of Statistical Data and Metadata", Conference of European

Statisticians Methodological Material, Geneva, 1995, p. 4).

Source: United Nations Statistical Commission and Economic Commission for

Europe of the United Nations (UNECE), "Guidelines for the Modeling of Statistical Data and Metadata", Conference of European Statisticians,

Methodological material, United Nations, Geneva,



**Hyperlink**:

Related Terms: Statistical metainformation

# 340. Statistical methodology

**<u>Definition</u>**: Theory and methods of data collection, processing and analysis.

**Context:** 

Source: Statistics Canada, Integrated Metadata Base, "Glossary", unpublished on

paper

**Hyperlink:** http://www.statcan.ca/english/edu/power/toc/contents.htm

**Related Terms**: Methodology

### 341. Statistical microdata

**Definition:** An observation data collected on an individual object.

**Context:** Microdata is data on the characteristics of units of a population, such as

individuals, households, or establishments, collected by a census, survey,

or experiment. (United States Bureau of the Census, Software and

Standards Management Branch, Systems Support Division, "Survey Design and Statistical Methodology Metadata", Washington D.C., August 1998,

Section 3.4.4, page 39, at

http://www.census.gov/srd/www/metadata/metada18.pdf).

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European

Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

Hyperlink: http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Statistical macrodata

# 342. Statistical organisation

**Definition:** A producer of official statistics.

Context:

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 



# 343. Statistical population

**Definition:** The total membership or population or "universe" of a defined class of

people, objects or events.

**Context:** There are two types of population, viz., target population and survey

population. A "target population" is the population outlined in the survey objects about which information is to be sought and a "survey population" is the population from which information is obtained in a survey. The target population is also known as the scope of the survey and the survey population as the coverage of the survey. For administrative data sources, the corresponding populations are the "target population", as defined by the relevant legislation and regulations, and the actual "client population" ("United Nations Glossary of Classification Terms" prepared by the Expert

Group on International Economic and Social Classifications).

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

**Hyperlink:** http://unstats.un.org/unsd/class/family/glossary\_short.htm

Related Terms: Census

Coverage error Cut-off threshold

Scope Stratification True value

# 344. Statistical processing

See Data Compilation

Context:

Source:

Hyperlink:

**Related Terms**: Aggregation

Compilation practices

Consolidation
Data processing
Data reconciliation
Disaggregation
Estimation
Index number
Reference period
Revision policy
Seasonal adjustment

Special Data Dissemination Standard, SDDS Statistical Data and Metadata Exchange, SDMX



### 345. Statistical production

**<u>Definition</u>**: The activity that is carried out within statistical information system and

aimed at producing statistics.

Context:

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** 

### 346. Statistical purpose

**<u>Definition</u>**: The use of data in a way that complies with the Fundamental Principles of

Official Statistics, fits into one or more phases of the statistical business

process, and contributes to the production of official statistics.

Context:

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** 

#### 347. Statistical standard

**Definition:** An agreed rule or guideline on how one or more parts of the statistical

business process should be carried out, conforming with requirements for

professionalism.

**Context:** Components of a standard include:

definition(s)statistical unitsclassification(s)coding process(es)questionnaire module(s)

- output categories

The use of statistical standards permits the repeated collection of statistics on a consistent basis. They also enable the integration of data over time and across different data sources, allowing the use of data beyond the immediate purpose for which it was produced. Standards also reduce the

resource requirements associated with many aspects of survey

development and maintenance (Statistics New Zealand," Classifications

and Standards"; unpublished on paper)

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: International statistical standard



# 348. Statistical subject-matter domain

**Definition:** A statistical activity that has common characteristics with respect to

concepts and methodologies for data collection, manipulation and

transformation.

**Context:** Within SDMX, the list of Statistical Subject-Matter Domains (aligned to the

UN/CES Classification of International Statistical Activities) is a standard

reference list against which the categorisation schemes of various

participants in exchange arrangements can be mapped to facilitate data and metadata exchange. This allows the identification of subject matter domain groups involved in the development of guidelines and recommendations relevant to one or more statistical domains. Each of these groups could

define domain-specific data structure definitions, concepts, etc.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Characteristic

Concept

Domain groups Methodology Study domain

#### 349. Statistical unit

**Definition:** Entity for which information is sought and for which statistics are ultimately

compiled.

**Context:** The statistical unit is the object of a statistical survey and the bearer of

statistical characteristics. These units can, in turn, be divided into

observation units and analytical units.

Statistical units for economic statistics are defined on the basis of three criteria: 1) Legal, accounting or organisational criteria; 2) Geographical

criteria; 3) Activity criteria.

Statistical units comprise the enterprise, enterprise group, kind-of-activity unit (KAU), local unit, establishment, homogeneous unit of production.

persons, households, geographical areas, events etc.

Statistical units can be categorised into basic statistical units, i.e. those for which data is collected, and derived statistical units, i.e. those which are constructed during the statistical production process. A basic statistical unit is the most detailed level to which the obtained characteristics can be

attached.

In other statistical domains, statistical units can include persons, households, geographical areas, events etc. Statistical units can be categorised into basic statistical units, i.e. those for which data is collected, and derived statistical units, i.e. those which are constructed during the

statistical production process.

Source: SDMX (2009)

<u>Hyperlink</u>: http://www.sdmx.org



Related Terms: Analytical unit

Classification Comparability Observation unit

### 350. Statistical variable

**<u>Definition</u>**: A characteristic of a unit being observed that may assume more than one of

a set of values.

**Context:** A variable in the mathematical sense, i.e. a quantity which may take any

one of specified set of values. It is convenient to apply the same word to denote non-measurable characteristics, e.g., 'sex' is a variable in this sense since any human individual may take one of two 'values', male or female. It is useful, but far from being the general practice, to distinguish between a variable as so defined and a random variable (The International Statistical Institute, "The Oxford Dictionary of Statistical Terms", edited by Yadolah

Dodge, Oxford University Press, 2003).

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

Hyperlink: http://unstats.un.org/unsd/class/family/glossary\_short.htm

Related Terms: Characteristic

Observation

### 351. Stratification

**Definition:** A sampling procedure in which the population is divided into homogeneous

subgroups or strata and the selection of samples is done independently in

each stratum.

**Context:** The division of a population into parts is known as strata, especially for the

purpose of drawing a sample, an assigned proportion of the sample then being selected from each stratum. The process of stratification may be undertaken on a geographical basis, e.g. by dividing up the sampled area into sub-areas on a map; or by reference to some other quality of the population, e.g. by dividing the persons in a town into strata according to sex or into three strata according to whether they belong to upper, middle or

lower income groups.

The term stratum is sometimes used to denote any division of the population for which a separate estimate is desired, i.e. in the sense of a domain of study. It is also used sometimes to denote any division of the population for which neither separate estimates nor actual separate sample selection is made. (The International Statistical Institute, "The Oxford Dictionary of Statistical Terms", edited by Yadolah Dodge, Oxford University

Press, 2003).

**Source:** Statistics Canada, Canada's National Statistical Agency, online glossary of

statistical terms and definitions

Hyperlink: http://www.statcan.ca/english/freepub/81-004-XIE/def/stratdef.htm

Related Terms: Sample

Statistical population



#### 352. Structural definition

**Definition:** Statistical concepts, key families and code lists defined by a centre

institution (usually for the exchange of statistical information with its

partners).

Context:

**Source:** European Central Bank (ECB), Bank for International Settlement (BIS),

Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide",

Release 3.00, February, 2003; unpublished on paper

**Hyperlink:** http://www.ecb.int/stats/services/gesmes/html/index.en.html

Related Terms: Code list

Concept

Concept scheme
Data structure definition

**GESMES/TS** 

Maintenance agency Statistical concept Structural metadata

#### 353. Structural metadata

**Definition:** Metadata that act as identifiers and descriptors of the data.

**Context:** Structural metadata are needed to identify, use, and process data matrixes

and data cubes, e.g. names of columns or dimensions of statistical cubes. Structural metadata must be associated with the statistical data, otherwise it

becomes impossible to identify, retrieve and navigate the data.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Cross-domain Concepts

Data structure definition

**GESMES/TS** 

Metadata structure definition

Reference metadata SDMX Registry Statistical metadata Structural definition

### 354. Structure

**<u>Definition</u>**: A hierarchical classification for identifying relationships between categories.

**Context:** A hierarchical classification is based on a tree structure where each set of

its detailed categories are subsets of categories at the level above the one



in which they are contained.

**Source:** United Nations Glossary of Classification Terms; prepared by the Expert

Group on International Economic and Social Classifications, unpublished on

paper

Hyperlink:

Related Terms: Category

Data structure definition

Hierarchy

Metadata structure definition

## 355. Study domain

**Definition:** A segment of the population for which separate statistics are needed.

**Context:** A study domain could consist of a geographical area such as a region or

major population centre. It could also comprise a specified population category, such as a major national or ethnic group. The number of domains has an important bearing on the size and distribution of the cample.

has an important bearing on the size and distribution of the sample.

Normally statistics are presented for different sub-groups of the population, so called study domains. These study domains can be geographical as well as non-geographical. Often these sub-groups are according to some classification (e.g. territorial units, economic activity etc.) (Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003).

In the course of tabulation, data may actually be provided for many population segments; however, a study domain would be a segment identified in the overall statistical plan as one for which a certain level of detail and certain data reliability were required. The study domains chosen may coincide with the strata adopted for stratified sampling or may cut

across them.

**Source:** Statistical Office of the United Nations, "Handbook of Household Surveys,

Revised Edition", (paras. 4.6, 4.7), Studies in Methods, Series F, No. 31,

United Nations, New York, 1984

**Hyperlink:** 

Related Terms: Statistical subject-matter domain

# 356. Submitting organisation

**Definition:** The organization responsible for requesting that a new metadata item be

registered in the registry.

**Context**:

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink:** 

Related Terms: ISO/IEC 11179

Metadata registry



# 357. Survey

**<u>Definition</u>**: An investigation about the characteristics of a given population by means of

collecting data from a sample of that population and estimating their characteristics through the systematic use of statistical methodology.

Context: Included are:

- censuses, which attempt to collect data from all members of a population;

- sample surveys, in which data are collected from a (usually random)

sample of population members.

Surveys can be unique in time or repeated with regular or irregular periodicity. A single wave of a repeated survey is called survey instance.

A wider definition under which the term survey covers any activity that collects or acquires statistical data (including censuses, sample surveys, the collection of data from administrative records and derived statistical activities) has also been proposed. (see Statistics Canada, "Statistics Canada Quality Guidelines", 4th edition, October 2003, page 7, available at

http://www.statcan.ca:8096/bsolc/english/bsolc?catno=12-539-

X&CHROPG=1)

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Census

Cut-off survey Non-response Processing error Questionnaire Reporting unit Sample survey Schedule Survey design

# 358. Survey data collection

**Definition:** An activity of the survey life cycle for gathering data from respondents and

recording it for further processing.

Context:

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European

Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

**Related Terms:** 



# 359. Survey design

**<u>Definition</u>**: All the aspects of a survey from the establishment of a need for data to the

production of final outputs.

**Context:** The survey design addresses the following issues: what statistics are

produced, for which population, when, and with what accuracy; what data are to be collected for which units of the population of interest, and what are the methods by which those data are to be collected and processed to

produce the required statistics. Operational, organisational and

administrative issues are usually addressed (Lessler, J.T. and Kalsbeek, W.D., "Non Sampling Error in Survey", John Wiley, New York, 1992 or US Department of Commerce, "Glossary of Non Sampling Error Terms: An Illustration of a Semantic Problem in Statistics", Statistical Policy Working

Paper 4, Office of Federal Statistical Policy Standards, 1978).

**Source:** Statistics Canada, "Statistics Canada Quality Guidelines", 4th edition,

October 2003, page 8

**Hyperlink:** http://www.statcan.ca:8096/bsolc/english/bsolc?catno=12-539-

X&CHROPG=1

**Related Terms:** Questionnaire design

Sample design

Survey

## 360. Syntax

**Definition:** The relationships among characters or groups of characters, independent of

their meanings or the manner of their interpretation and use; the structure of expressions in a language, and the rules governing the structure of a

language.

Context:

Source: ISO/IEC CD 11179-5 "Information technology - Metadata registries (MDR) -

Part 5: Naming and identification principles", January 2004

Hyperlink:

Related Terms: ISO/IEC 11179

Semantics

# 361. Target population

**Definition:** The set of elements about which information is wanted and estimates are

required. Practical considerations may dictate that some units are excluded (e.g., institutionalized individuals, the homeless, or those that are not be

possible to access without incurring excessive cost).

**Context:** 

**Source:** Statistics Canada, "Statistics Canada Quality Guidelines", 4th edition,

October 2003, page 17



Hyperlink: http://www.statcan.ca:8096/bsolc/english/bsolc?catno=12-539-

X&CHROPG=1

Related Terms: Cut-off threshold

Under-coverage

### 362. Taxonomy

**Definition:** Classification of things according to a presumed relationship among types

and subtypes.

**Context:** The term "taxonomy" comes from the Greek τάξις, taxis (meaning 'order',

'arrangement') and νόμος, nomos ('law' or 'science'). Taxonomic schemes are composed of taxonomic units that are arranged frequently in a hierarchical structure. Typically they are related by subtype-supertype

relationships also called parent-child relationships.

Within SDMX, a reporting taxonomy is a scheme which defines the

composition structure of a data or metadata report where each component

is described by an independent data flow definition.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Classification

ISO/IEC 11179 Ontology

#### 363. Term

**<u>Definition</u>**: A designation of a defined concept in a special language by a linguistic

expression.

**Context:** A term is a word or phrase used to designate a concept (Terminology on

Statistical Metadata, Conference of European Statisticians Statistical

Standards and Studies, No. 53, UNECE, Geneva 2000,

http://www.unece.org/stats/publications/53metadaterminology.pdf).

Source: ISO International Standard 1087-1:2000, Terminology work -- Vocabulary --

Part 1: Theory and application, November 2004

**Hyperlink:** http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Terminology

Thesaurus

Terminological entry Terminological system

# 364. Terminological entry

**Definition:** An entry containing information on a specific terminological unit within a

context or subject field.



**Context:** 

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Term

Terminology Thesaurus

Terminological system

## 365. Terminological system

**<u>Definition</u>**: A concept system with designations for each concept.

Context:

**Source:** ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink**:

Related Terms: Concept

Term

Terminology

Terminological entry

# 366. Terminology

**<u>Definition</u>**: A set of terms.

Context:

**Hyperlink:** 

**Source:** Economic Commission for Europe of the United Nations (UNECE),

"Terminology on Statistical Metadata", Conference of European Statisticians Statistical Standards and Studies, No. 53, Geneva, 2000

http://www.unece.org/stats/publications/53metadaterminology.pdf

Related Terms: Special Data Dissemination Standard, SDDS

Term

Terminological system

Terminology

#### 367. Thesaurus

**<u>Definition</u>**: Structured list of expressions intended to represent in unambiguous way the

conceptual content of a documentary system and the gueries addressed to

that system.

**Context:** A statistical thesaurus may assist in locating an existing data element.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org



**Related Terms:** Data element

ISO/IEC 11179

Term

### 368. Time coverage

**<u>Definition</u>**: The length of time, e.g. years, for which data are collected.

**Context:** 

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

### 369. Time format

<u>Definition</u>: Technical format in which time is represented for the measured

phenomenon.

**Context:** The technical time format and its related code list are part of the technical

standards for SDMX-EDI and SDMX-XML.

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org

**Related Terms:** 

# 370. Time of recording

**Definition:** The date the item was recorded in a dissemination medium.

**Context:** The time of recording may be the date the item was first recorded or the

date an existing item was amended. In National Accounts, time of recording pertains to the issues involved in deciding whether to record a transaction with regard to when the claim arises (accrual) or when it is to be paid

(cash).

See: United Nations, "System of National Accounts (SNA) 1993" and International Monetary Found, "Balance of Payments Manual (BPM)",

Washington D.C., 1993.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Accounting conventions

Date of last change



### 371. Time period

**<u>Definition</u>**: The period of time or point in time to which the measured observation

refers.

**Context:** The measurement represented by each observation corresponds to a

specific point in time (e.g. a single day) or a period (e.g. a month, a fiscal year, or a calendar year). This is used as a time stamp and is of particular importance for time series data. In cases where the actual time period of the data differs from the target reference period, "time period" refers to the

actual period.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

**Related Terms**: Observation

Period

Reference period Time series

#### 372. Time series

**<u>Definition</u>**: A set of ordered observations on a quantitative characteristic of an

individual or collective phenomenon taken at different points of time.

**Context:** Although it is not essential, it is common for these points to be equidistant in

time. The essential quality of the series is the order of the observations according to the time variable, as distinct from those which are not ordered at all, e.g. in a random sample chosen simultaneously or are ordered to their internal properties, e.g. a set arranged in order of magnitude.

In GESMES/TS, a time series is a time-ordered vector of observations. A time series is uniquely defined with in a data set by its key. (European Central Bank (ECB), Bank for International Settlement (BIS), Eurostat, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development (OECD), "GESMES/TS User Guide", Release 3.00,

February, 2003; unpublished on paper available at http://www.sdmx.org/Data/GesmesTS rel3.pdf)

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

Hyperlink: http://www.sdmx.org/Data/GesmesTS rel3.pdf

**Related Terms:** Characteristic

Data provider series key

Data set Dimension Kev

Observation

Observation pre-break value

Sibling group Time period Time series break

Trend



#### 373. Time series break

**<u>Definition</u>**: Break occurring when there is a change in the standards for defining and

observing a variable over time.

**Context:** A break may be the result of a single change or the combination of multiple

changes at any one point in time of observation of the variable. The specific

causes of breaks in a statistical time series include changes in: classifications used, definitions of the variable, coverage; etc.

Statistical agencies and users of time series data for economic research to analyse and interpret economic and social events and conditions attach very high importance to the continuity and consistency of data over time. However, it should be emphasised that the occurrence of time series break may not necessarily jeopardise the reliability of a time series. Statistical agencies frequently apply a number of techniques to ensure the continuity of a time series. Finally, the impact of a time series break is often a matter of judgement on the part of the user and depends on the use(s) to which the

data are put.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** Observation pre-break value

Revision policy Time series

#### 374. Timeliness

**<u>Definition</u>**: Length of time between data availability and the event or phenomenon they

describe.

calendar.

**Context:** Timeliness refers to the speed of data availability, whether for dissemination

or for further processing, and it is measured with respect to the time lag between the end of the reference period and the release of data. Timeliness is a crucial element of data quality: adequate timeliness corresponds to a situation where policy-makers can take informed decisions in time for achieving the targeted results. In quality assessment, timeliness is often associated with punctuality, which refers to the time lag between the release date of data and the target date announced in some official release

Timeliness can be further broken down into "Timeliness - output" and "Timeliness - source data".

"Timeliness - output" refers to the the lapse of time between the end of a reference period (or a reference date) and the release of a version of the data: provisional, preliminary, or final results. This reflects many factors, including some that are related to institutional arrangements, such as the preparation of accompanying commentary and printing. Usually, data are not released immediately at the end of the period they refer to, since data collection, data processing and data dissemination work needs to be performed.

"Timeliness - source data" refers to the time between the end of a reference period (or a reference date) and actual receipt of the data by the compiling agency. Compared to the parent concept - timeliness - this concept only



covers the time period between the end of the reference period and the receipt of the data by the data compiling agency. This time period is determined by factors such as delays accommodating the institutional

arrangements for data transmission.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org

Related Terms: Data

Punctuality Quality

Release policy

#### 375. Title

**<u>Definition</u>**: Textual label used as identification of a statistical object.

**Context:** The title is a short name describing and identifying a statistical object it is

attached to.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms:** 

### 376. Transparency

See "Integrity"

#### **377. Trend**

**<u>Definition</u>**: A long-term movement in an ordered series, say a time series, which may

be regarded, together with the oscillation and random component, as

generating the observed values.

**Context:** In time series analysis, a given time series can be decomposed into: a) a

cyclical component; b) a trend component; c) a seasonal component; d) an

irregular component.

Source: The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003

**Hyperlink**:

Related Terms: Time series

Trend estimates



#### 378. Trend estimates

**Definition:** Estimates derived from seasonally adjusted estimates via an averaging

> process which attempts to remove the irregular component of the time series. This allows the underlying direction of a time series to be identified.

Context:

Source: Australian Bureau of Statistics, "An Analytical Framework for Price Indexes

in Australia: Glossary and References", Canberra, 1997

**Hyperlink**: http://www.abs.gov.au

**Related Terms: Estimate** 

Trend

#### 379. True value

**Definition:** The actual population value that would be obtained with perfect measuring

instruments and without committing any error of any type, both in collecting

the primary data and in carrying out mathematical operations.

Context:

Source: Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

**Hyperlink**:

**Related Terms:** Statistical population

#### 380. Type of data collection

**Definition:** Main process used in the collection of statistical data by the primary source

of the data.

The type of data collection refers to the main process used in the collection **Context:** 

of statistical data by the primary source of the data, those commonly used being survey data collection and administrative data collection. Each of these broad types may be further broken down on the basis of some characteristic, e.g. the nature of the data provider (enterprise / household)

or exhaustiveness (sample survey, complete enumeration census).

Source: SDMX (2009)

**Hyperlink**: http://www.sdmx.org/

**Related Terms:** 

#### 381. Under-coverage

Failure to include required units in the frame, which results in .the absence **Definition:** 

of information for those units.

Context: Under-coverage should not be confused with non-response.



**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Frame

Over-coverage Target population

### 382. Unit multiplier

**Definition:** Exponent in base 10 specified so that multiplying the observation numeric

values by 10^UNIT\_MULT gives a value expressed in the unit of measure.

**Context:** In some data bases, it is referred to as SCALE, MAGNITUDE or POWER,

e.g. "UM=6" means that observations are in millions.

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**:

## 383. Unit non-response

See "Non-response error"

#### 384. Unit of measure

**Definition:** The unit in which the data values are measured.

**Context:** The unit of measure is a quantity or increment by which something is

counted or described, such as kg, mm, °C, °F, monetary units such as Euro or US dollar, simple number counts or index numbers. The unit of measure has a type (e.g. currency) and, in connection with the unit multiplier, provides the level of detail for the value of the variable (e.g. Euro, 1000

Euro).

For data messages, the concept is always represented by codes. Any additional detail needed must be inserted as free text within "unit of

measure detail".

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: Conceptual domain

Dimension Dimensionality ISO/IEC 11179



### 385. Unit response rate

**<u>Definition</u>**: The percentage of an eligible sample for whom information is obtained.

**Context:** For a survey, the numerator of the formula is the number of responses. The

denominator is the total sample size minus non-eligible respondents, i.e. minus those not meeting the criteria for a potential respondent as defined

for that particular study.

The weighted response rate calculates the ratio using the inverse probability of inclusion in the sample as a weight for each unit. In some occasions a value that reflects the importance of the unit is also used as a

weighting factor (like size of workforce for establishment).

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**:

#### 386. Unit value

**<u>Definition</u>**: Expenditures or value of production of an item divided by the quantity.

Context:

**Source:** United Nations Department of Economic and Social Development -

Statistical Division, Handbook of the International Comparison Programme,

Studies in Methods, Series F, No. 62, New York, 1992, Glossary

Hyperlink:

**Related Terms:** 

#### 387. User

**<u>Definition</u>**: Recipient of statistical information, who transforms it into knowledge needed

for decision making or research.

**Context:** User needs refer to data and metadata requirements of persons or

organisations to meet a particular use or set of uses. User needs may be specified in terms of the quality dimensions promulgated by international

organisations or national agencies.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** 

# 388. User satisfaction survey

**<u>Definition</u>**: A statistical survey aiming to assess the satisfaction of users of statistics.

**Context:** 



**Source:** Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group,

Luxembourg, October 2003

**Hyperlink**:

**Related Terms:** 

#### 389. Validation

See "Data Validation"

#### 390. Valuation

**<u>Definition</u>**: The definition of the price per unit, for goods and services flows and asset

stocks.

**Context:** Standard national accounts valuations include the basic price (what the

seller receives) and the purchaser's price (what the purchaser pays). The purchaser's price is the basic price, plus taxes less subsidies on products, plus invoiced transportation and insurance services, plus distribution margin. Other valuation bases may be used in other contexts. International trade in goods considers the free on board (fob) price and cost-insurance-

freight price, among others.

The concept refers to valuation rules used for recording flows and stocks, including how consistent the practices used are with internationally

accepted standards, guidelines, or good practices.

Source: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

Related Terms: Accounting conventions

#### 391. Value domain

**Definition:** A set of permissible values.

**Context:** In the context of ISO 11179, a domain is the set of possible data values of

an attribute. A "data value" is an element of a value domain.

The value domain provides representation, but has no implication as to what data element concept the values may be associated with, or what the values mean. The permissible values may either be enumerated or

expressed via a description.

Enumerated value domain is a value domain that is specified by a list of all

its permissible values.

Non-enumerated value domain is a value domain that is specified by a

description rather than a list of all Permissible values.

Non-enumerated value domain description is a description or specification of a rule, reference, or range for a set of all permissible values for the value

domain.



Value domain representation class is the class of representation of a value domain. Attributes of value domain:

Value domain administration record is the administration record for a value domain.

Value domain datatype is the datatype used in a value domain.

Value domain format is a template for the structure of the presentation of the Value(s) e.g. - YYYY-MM-DD for a date.

Value domain maximum character quantity is the maximum number of characters to represent the Data Element value and is applicable only to character datatypes.

Value domain relationship is a relationship among two or more Value domains.

Value domain unit of measure is the unit of measure used in a value domain. (ISO/IEC 11179-3 "Information technology - Metadata registries-Part 3: Registry metamodel and basic attributes", February 2003)

ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part Source:

1: Framework", March 2004

**Hyperlink**:

Attribute **Related Terms:** 

> ISO/IEC 11179 Permissible value Permitted value Value item Value meaning

#### 392. Value item

See "Permitted value"

# 393. Value meaning

**Definition:** The meaning or semantic content of a value.

Given a permissible value, representation of its value meaning shall be Context:

independent of (and shall not constrain) the representation of its

corresponding value.

The representation of value meanings in a registry shall be independent of (and shall not constrain) their representation in any corresponding value

domain.

Value meaning set is the relationship between a conceptual domain and a set of value meanings.

Attributes of value meaning:

Value meaning begin date is the effective date of this value meaning in the conceptual domain. A registration authority may determine whether this date is the date the value meaning becomes valid in a registry or the date the value meaning becomes part of the source domain or some other date.



Value meaning description is a description of a value meaning.

Value meaning end date is the date this value meaning became/becomes invalid. A registration authority may determine whether this date is the date the value meaning becomes no longer valid in a registry or the date the value meaning becomes no longer part of the source domain or some other

date.

Value meaning identifier is the unique identifier for a value meaning.

Source: ISO/IEC FDIS 11179-1 "Information technology - Metadata registries - Part

1: Framework", March 2004

**Hyperlink:** 

Related Terms: Conceptual domain

ISO/IEC 11179
Permissible value
Value domain
Value item

#### 394. Verification

**Definition:** Principal methods to review, audit, or verify the accuracy of the

disseminated data.

**Context:** Verification methods (e.g., internal review, statistical confidence tests,

internal audit, audit by outside accountants, cross-checks with other macroeconomic accounts, etc.) may entail the reconciliation of stocks and transactions data, reconciliation of reported data with money and banking statistics, custodian data, differences with partner data or preshipment inspection data, the treatment of differences between GDP compiled for the production approach and GDP compiled from the expenditure approach.

Source: SDMX (2009)

Hyperlink: http://www.sdmx.org/

**Related Terms:** Compilation practices

395. Weight

**<u>Definition</u>**: The importance of an object in relation to a set of objects to which it

belongs.

**Context:** A weight is represented as a numerical coefficient attached to an

observation, frequently by multiplication, in order that it shall assume a desired degree of importance in a function of all the observations of the set.

Reweighting consists of raising the original weights for the respondent values when estimates are computed. Reweighting concerns mainly unit non-response. It may also be used to increase precision through the use of

auxiliary information. Standard methods include post-stratification, calibration and response propensity modelling (Eurostat, "Assessment of Quality in Statistics: Glossary", Working Group, Luxembourg, October

2003).

**Source:** The International Statistical Institute, "The Oxford Dictionary of Statistical

Terms", edited by Yadolah Dodge, Oxford University Press, 2003



**Hyperlink**:

**Related Terms:** Base weight

Non-response Non-response error Ratio estimation Weight period

# 396. Weight period

**<u>Definition</u>**: The period that provides the weights for an index number.

**Context**:

**Source**: SDMX (2009)

**Hyperlink:** http://www.sdmx.org/

**Related Terms**: Base period

Index type Period Weight

397. XML

**<u>Definition</u>**: eXtensible Mark-up Language

Context:

**Source**: SDMX (2009)

Hyperlink: http://www.sdmx.org/

Related Terms: SDMX-ML