

7. Detail: Main SDMX objects for metadata exchange (What is SDMX? Part iii)

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Types of metadata

Structural metadata

- acting as identifiers and descriptors of the data, such as:
 - dimensions of statistical cubes
 - variables
 - titles of tables
 - Nomenclatures (code lists)
- always be associated with the data to allow their identification, retrieval and browsing.



Example for structural metadata

	DIMENSIONS					
	Table name	Year	Country	Nace code	SBS indcator	Value
	3P	2008	BE	G	12110	1310003927
	3P	2008	BE	G45	12110	70115216
	3P	2008	BE	G451	12110	23972264
	3P	2008	BE	G4511	12110	10096872
	3P	2008	BE	G4519	12110	12073876
	312	2008	BE	G452	12110	18460065
	3P	2008	BE	G4520	12110	16345242
	3P	2008	BE	G453	12110	17433177
CODES	3P	2008	BE	G4531	12110	13348313
	3P	2008	BE	G4532	12110	11870718
	3P	2008	BE	G454	12110	3613667
	3P	2008	BE	64540	12110	807793
	3P	2008	BE	G46	12110	523765890
	3P	2008	BE	G461	12110	128812274
	3P	2008	BE	G4611	12110	7812082
	3P	2008	BE	G4612	12110	41087798



Types of metadata

Reference metadata

- acting only as descriptors of the data, they don't help to actually identify the data.
- They can be of different kinds:
 - conceptual metadata
 - methodological metadata
 - quality metadata (process and output)
- can be exchanged independently from the data they are related to, but are however often linked to them.



Example for reference metadata



Health variables of EU-SILC

Reference Metadata in Euro SDMX Metadata Structure (ESMS) Compiling agency: Eurostat, the statistical office of the European Union

Eurostat metadata		
Reference metadata		
1. Contact		
2. Metadata update		
3. Statistical presentation		
4. Unit of measure		
5. Reference Period		
6. Institutional Mandate		
7. Confidentiality		
8. Release policy		
9. Frequency of dissemination		
10. Dissemination format		
11. Accessibility of documentation		
12. Quality management		
13. Relevance		
14. Accuracy		
15. Timeliness and punctuality		
16. Comparability		
17. Coherence		
18. Cost and Burden		
19. Data revision		
20. Statistical processing		
21. Comment		
Related Metadata		
Annexes (including footnotes)		

For any question on data and metadata, please contact: EUROPEAN STATISTICAL DATA SUPPORT

Download

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1. Contact		
1.1. Contact organisation	rostat, the statistical office of the European Union	
1.2. Contact organisation unit	ntact organisation unit F5: Education, health and social protection	
1.5. Contact mail address 2920 Luxembourg LUXEMBOURG		

2. Metadata update		
2.1. Metadata last certified	19/11/2013	
2.2. Metadata last posted	19/11/2013	
2.3. Metadata last update	23/10/2013	

3. Statistical presentation

3.1. Data description

The European Statistics of Income and Living Condition (EU-SILC) survey contains a small module on health, composed of 3 variables on health status and 4 variables on unmet needs for health care. The variables on health status represent the so called Minimum European Health Module (MEHM), and measures 3 different concepts of health:

- · Self-perceived health
- · Chronic morbidity (people having a long-standing illness or health problem)
- Activity limitation disability (self-perceived long-standing limitations in usual activities due to health problems)

The variables on unmet needs for health care targets two broad types of services: medical care and dental care. The variables refer to the respondent's own assessment of whether he or she needed the respective type of examination or treatment, but did not have it and if so what was the main reason of not having it, Eurostat currently disseminates the following indicators for unmet needs:



ESS standardisation of reference metadata based on SDMX

- The SDMX Glossary (2016)
- The SDMX Technical Standards:
 - The information model for creation of the Metadata Structure Definitions (MSDs);
 - The SDMX-ML for documenting the XML format;
 - The Euro SDMX Registry for storing the MSDs etc.



Standardisation of structural metadata

- Code lists describe dimensions in data tables, giving a meaning to the data.
- Code lists are based on:
 - official statistical classifications such as NACE, NUTS, ISCO...
 - the SDMX Glossary
 - Domain specific codifications
- A standard code list is a code list already harmonised
- Standard code lists should be used all along the statistical business process: data design, collection, aggregation, dissemination, archiving...



Example of a harmonised code list (NACE Rev. 1.1)

	Old version (before harmonisation)		New version (after harmonisation)	
Domains	Old codes	Old label_en	New codes	New label_en
hrst, htec	MA_TOTAL	Manufacturing sector		
fats	MAN	Manufacturing industries		
theme3	RD	Manufacturing industry		Manufacturing
theme4	B0200	Manufacturing industry	D Manufacturing	Manufacturing
theme8	SE0_4	Manufacturing industry		
theme9	TOT_MANUF	Manufacturing industry		
ds, hrst, htec	MA_LOW_TEC	Low technology manufacturing sector		
fats / inn	LOT	Low Technology (incl. following NACE codes: 15-22; 36, 37)	D_LTC	Low-technology manufacturing
inn	I_LOW_TEC	Low tech industries: NACE Rev.1 codes 15 to 22, 36 and 37		
hrst, htec	SE_TOTAL	Services: NACE Rev. 1.1 sections G to $Q = 50$ to 99	G-Q	Services
fats	SER	Services sector		8

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Impact on the statistical business processes

- Better comparability: same codes for the same concepts
- Increase efficiency: less transcoding; less code lists; clean lists
- Improve accuracy: facilitate data management and exchange and reduce the number of errors
- Re-usability and integration of the data: data warehouse are only possible if codes corresponding to the same concept are the same
- The ESS standard code lists will also be made available in the Euro SDMX Registry (currently RAMON).



RAMON



Welcome to RAMON Eurostat's Metadata Server

METADATA CATEGORIES

CONCEPTS AND DEFINITIONS

CODED (Eurostat's Concepts and Definitions Database) and other online glossaries relating to survey statistics

CLASSIFICATIONS

International statistical classifications and nomenclatures

STANDARD CODE LISTS

Standard cross-domain code lists used in the reference database, recommended for production databases and data transmission

LEGISLATION AND METHODOLOGY

EU legal acts and methdological manuals relating to statistics

GLOSSARIES AND THESAURI

ISI (International Statistical Institute) glossary and other online glossaries and thesauri relating to statistics

NATIONAL METHODOLOGIES

Survey methodologies used at national level to produce EU statistics, quality reports, etc.

http://ec.europa.eu/eurostat/ramon

Eurostat



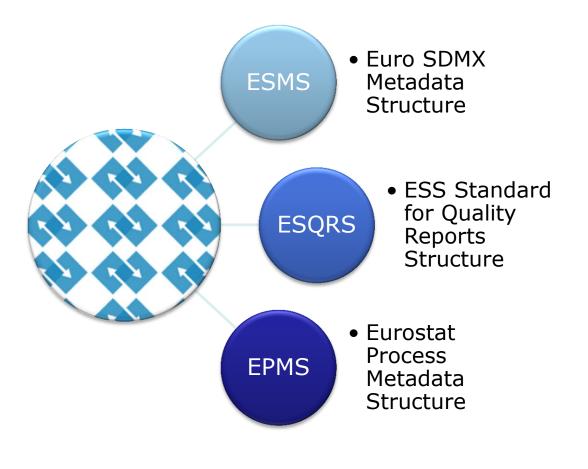
Standard Code Lists in RAMON

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		Contact Important le	gal notice English (en)
European Commission		1 1 1	Mr. M
eurostat Your key to European statistics			
		AAA	
European Commission > Eurostat > ESS-MH > RAMON > Metadata			
	Introduction <mark>Metadata</mark> 0	Correspondence Tables	Search Engine What's ne
METAD	ΟΑΤΑ		
STANDARD C			
STANDARD C			
Search an entry on this page from its name or abbreviation.			
Search			
Select the classification from the list in order to view its structure			Back to main page
Select a Family: All		Select I	anguage English 🔻
	English		0
Name	abbreviation	Family	General description
1 General information on the "Standard code lists" project		Other	
2 <u>SCL - Accidents</u>	ACCIDENT	Transport	View
3 SCL - Activity and employment status	WSTATUS	Other	View
4 SCL - Age / Duration / Length of service /	AGE	Other	View
5 SCL - All levels	LEVELS	Measurement	View
6 <u>SCL - Amenities</u>	AMENITY	Other	View
7 SCL - Aquaculture method	AQUAMETH	Fishery	View
8 SCL - Aquatic environment	AQUAENV	Fishery	View
9 SCL - Area / Agricultural area / Arable land area /	AREA	Measurement	View
10 SCL - Body Mass Index	BMI	Health	View
11 SCL - Change	CHANGE	Other	View
12 SCL - Classification of Fields of Education and Training (1999)	FIELD	Education	View
13 SCL - Classification of the Functions of Government (COFOG 1999)	COFOG99	National Accounts	View
	CURRENCY	Other	View
14 <u>SCL - Currency</u>	CURRENCT		
14 <u>SCL - Currency</u> 15 <u>SCL - Days of the week</u>	DAYSWEEK	Other	View
		Other Measurement	<u>View</u> View

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The ESS Reference Metadata Standards





The Euro SDMX Metadata Structure (ESMS)

	Concept Name
1	Contact
1,1	Contact organisation
1,2	Contact organisation unit
1,3	Contact name
1,4	Contact person function
1,5	Contact mail address
1,6	Contact email address
1,7	Contact phone number
1,8	Contact fax number
2	Metadata update
2,1	Metadata last certified
2,2	Metadata last posted
2,3	Metadata last update
3	Statistical presentation
3,1	Data description
3,2	Classification system
3,3	Sector coverage
3,4	Statistical concepts and definitions
3,5	Statistical unit
3,6	Statistical population
3,7	Reference area
3,8	Time coverage
3,9	Base period
4	Unit of measure
5	Reference period
6	Institutional mandate
6,1	Legal acts and other agreements
6,2	Data sharing

	Concept Name
7	Confidentiality
7,1	Confidentiality - policy
7,2	Confidentiality - data treatment
8	Release policy
8,1	Release calendar
8,2	Release calendar access
8,3	User access
9	Frequency of dissemination
10	Accessibility and clarity
10,1	News release
10,2	Publications
10,3	On-line database
10,4	Micro-data access
10,5	Other
10,6	Documentation on methodology
10,7	Quality documentation
11	Quality management
11,1	Quality assurance
11,2	Quality assessment
12	Relevance
12,1	Userneeds
12,2	User satisfaction
12,3	Completeness
13	Accuracy and reliability
13,1	Overall accuracy
13,2	Sampling error
13,3	Non-sampling error

	Concept Name
14	Timeliness and punctuality
14,1	Timeliness
14,2	Punctuality
15	Coherence and comparability
15,1	Comparability - geographical
15,2	Comparability - over time
15,3	Coherence - cross domain
15,4	Coherence - internal
16	Cost and burden
17	Data revision
17,1	Data revision - policy
17,2	Data revision - practice
18	Statistical processing
18,1	Source data
18,2	Frequency of data collection
18,3	Data collection
18,4	Data validation
18,5	Data compilation
18,6	Adjustment
19	Comment



The ESS Standard for Quality Reports Structure (ESQRS)

	Concept Name
1	Contact
1.1	Contact organisation
1.2	Contact organisation unit
1.3	Contact name
1.4	Contact person function
1.5	Contact mail address
1.6	Contact email address
1.7	Contact phone number
1.8	Contact fax number
2	Statistical presentation
2.1	Data description
2.2	Classification system
2.3	Sector coverage
2.4	Statistical concepts and definition:
2.5	Statistical unit
2.6	Statistical population
2.7	Reference area
2.8	Time coverage
2.9	Base period
3	Statistical processing
3.1	Source data
3.2	Frequency of data collection
3.3	Data collection
3.4	Data validation
3.5	Data compilation
3.6	Adjustment
4	Quality management
4.1	Quality assurance
4.2	Quality assessment

	Concept Name
5	Relevance
5.1	UserNeeds
5.2	User Satisfaction
5.3	Completeness
5.3.1	Data completeness - rate
6	Accuracy and reliability
6.1	Accuracy - overall
6.2	Sampling error
6.2.1	Sampling error - indicators
6.3	Non-sampling error
6.3.1	Coverage error
6.3.1.1	Over-coverage - rate
6.3.1.2	Common units - proportion
6.3.2	Measurement error
6.3.3	Non response error
6.3.3.1	Unit non-response - rate
6.3.3.2	Item non-response - rate
6.3.4	Processing error
6.3.4.1	Imputation - rate
6.3.5	Model assumption error
6.4	Seasonal adjustment
6.5	Data revision - policy
6.6	Data revision - practice
6.6.1	Data revision - average size
7	Timeliness and punctuality
7.1	Timeliness
7.1.1	Time lag - first result
7.1.2	Time lag - final result
7.2	Punctuality
7.2.1	Punctuality - delivery and publication

	Concept Name	
8	Coherence and comparability	
8.1	Comparability - geographical	
8.1.1	Asymmetry for mirror flow statistics - coefficient	
8.2	Comparability - over time	
8.2.1	Length of comparable time series	
8.3	Coherence - cross domain	
8.4	Coherence - sub annual and annual statistics	
8.5	Coherence - National Accounts	
8.6	Coherence - internal	
9	Accessibility and clarity	
9.1	News release	
9.2	Publications	
9.3	Online database	
9.3.1	Data tables - consultations	
9.4	Microdata access	
9.5	Other	
9.6	Documentation on methodology	
9.7	Quality documentation	
9.7.1	Metadata completeness - rate	
9.7.2	Metadata - consultations	
10	Cost and Burden	
11	Confidentiality	
11.1	Confidentiality - policy	
11.2	Confidentiality - data treatment	
12	Comment	



Integration of ESMS and ESQRS under SIMS

ESMSESQRS5.1Contact5.1.1Contact organisation5.1.2Contact organisation unit5.1.3Contact organisation unit5.1.4Contact person function5.1.5Contact mail address5.1.6Contact person function5.1.7Contact phone number5.1.8Contact fax number5.2Metadata update5.2.1Metadata last certified5.2.2Metadata last posted5.3.3Statistical presentation5.3.1Data description5.3.2Classification system5.3.3Statistical concepts and cefinitions5.3.4Statistical population5.3.7Reference area5.3.8Time overage5.3.9Base period5.4Unit of measure5.5Reference period5.6Institutional mandate5.7Confidentiality5.7.1Confidentiality5.7.2Corfidentiality5.8Release policy5.8.1Release calendar5.8.2Release calendar		SIMS
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S.3.9 Base period S.4 Unit of measure S.5 Reference period S.6 Institutional mandate S.6.1 Legal acts and other agreements S.6.2 Data sharing S.7.1 Confidentiality S.7.2 Corfidentiality - policy S.7.3 Release policy S.8 Release calendar S.8.1 Release calendar access	\$.3.7	Reference area
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S.5 Reference period S.6 Institutional mandate S.6.1 Legal acts and other agreements S.6.2 Data sharing S.7 Confidentiality S.7.1 Confidentiality - palicy S.7.2 Corfidentiality - data treatment S.8 Release policy S.8.1 Release calendar S.8.2 Release calendar access	5.3.9	Base period
S.6 Institutional mandate 2.6.1 Legal acts and other agreements 3.6.2 Data sharing 5.7 Confidentiality 5.7.1 Confidentiality - policy 5.7.2 Confidentiality - data treatment 5.8 Release policy 5.8.1 Release calendar 5.8.2 Release calendar access	5.4	Unit of measure
Sc.1 Legal acts and other agreements S.6.2 Data sharing S.7 Confidentiality S.7.1 Confidentiality - policy S.7.2 Confidentiality - data treatment S.8 Release policy S.8.1 Release calendar S.8.2 Release calendar access	5.5	Reference period
S.6.2 Data sharing S.7 Confidentiality S.7.1 Confidentiality - policy S.7.2 Confidentiality - data treatment S.8 Release policy S.8.1 Release calendar S.8.2 Release calendar access	S.6	Institutional mandate
5.7 Confidentiality 5.7.1 Confidentiality - policy 5.7.2 Confidentiality - data treatment 5.8 Release policy 5.8.1 Release calendar 5.8.2 Release calendar access	5.6.1	Legal acts and other agreements
S.7.1 Confidentiality - policy S.7.2 Corfidentiality - data treatment S.8 Release policy S.8.1 Release calendar S.8.2 Release calendar access	S.6.2	Data sharing
S.7.2 Confidentiality - data treatment S.8 Release policy S.8.1 Release talendar S.8.2 Release calendar access	5.7	Confidentiality
S.8 Release policy S.8.1 Release calendar S.8.2 Release calendar access	\$.7.1	Confidentiality - policy
S.8.1 Release calendar S.8.2 Release calendar access	\$.7.2	Corfidentiality - data treatment
S.8.2 Release calendar access	5.8	Release policy
	S.8.1	Release calendar
SA D	5.8.2	Release calendar access
User access	9.0.D	User access

	SIMS						
	ESMS	ESQRS					
5.9	Frequency of d	issemination					
5.10	Accessibility	and darity					
\$.10.1	News re	lease					
5.10.2	Publica	tions					
\$.10.3	On-line da	atabase					
5.10.3.1	AC1. Data tables	- consultations					
\$.10.4	Micro-cat	a access					
\$ 10 5	Oth	er					
5.10.5.1	AC 2. Metadata -	consultations					
\$.10.6	Documentation o	n methodology					
5.10.6.1	AC 3. Metadata cor	mpleteness - rate					
\$.10.7	Quality docu	Imentation					
5.11	Quality management						
5.11.1	Quality assurance						
\$.11.2	Quality assessment						
5.12	Relevance						
\$.12.1	User needs						
\$.12.2	User satisfaction						
\$.12.3	Completeness and R1. Data completeness - rate for U						
5.12.3.1	R1. Data completeness - rate for P						
5.13	Accuracy and reliability						
\$.13.1	Overall a	ccuracy					
5.13.Z	Sampling error and A1. Samp	ling errors - indicators for U					
5.13.2.1	A1. Sampling errors	- indicators for P					
\$.13.3	Non-sampling error and A4. Unit n Item non-respon						
\$.13.3.1	Coverage	e error					
5.13.3.1.1	A2. Over-cove	erage - rate					
5.13.3.1.2	A3. Common uni	ts - proportion					
\$.13.3.2	Measurem	ent error					
\$.13.3.3	Non respor	nse error					
5.13.3.3.1	A4. Unit non-resp	onse - rate for P					
5.13.3.3.2	A5. Item non-resp						
\$.13.3.4	Processir	ng error					
\$.13.3.5	Model assum						

	SIMS					
	ESMS ESQRS					
5.14	Timeliness and punctuality					
\$.14.1	Timeliness and TP2. Time lag - final results for U					
5.14.1.1	TP1. Time lag - first results for P					
5.14.1.2	TP2. Time lag - final results for P					
S.14.2	Punctuality and TP3. Functuality - delivery and publication for U					
5.14.2.1	TP3. Punctuality - delivery and publication for P					
5.15	Coherence and comparability					
\$ 15 1	Comparability - geographical					
5.15.1.1	CC1. Asymmetry for mirror flows statistics - coefficient					
S.15.2	Comparability - over time and CC2. Length of comparable time series for U					
5.15.2.1	CC2. Length of comparable time series for P					
\$.15.3	Coherence- cross domain					
\$.15.3.1	Coherence - sub annual and annual statistics					
5.15.3.2	Coherence- National Accounts					
\$.15.4	Coherence - internal					
5.16	Cost and burden					
S.17	Data revision					
S.17.1	Data revision - policy					
5.17.2	Data revision - practice and A6. Data revision - average size for U					
\$17.2.1	A6. Data revision - average size for P					
5.18	Statistical processing					
S.18.1	Sourc <mark>e</mark> data					
5.18.2	Frequency of data collection					
S.18.3	Data collection					
S.18.4	Data va <mark>lidation</mark>					
S.18.5	Data compilation					
\$10.5.1	A7. Imputation - rate					
S.18.6	Adjustment					
\$.18.6.1	Seasonal adjustment					
5.19	Comment					



The Euro Process Metadata Structure (EPMS)

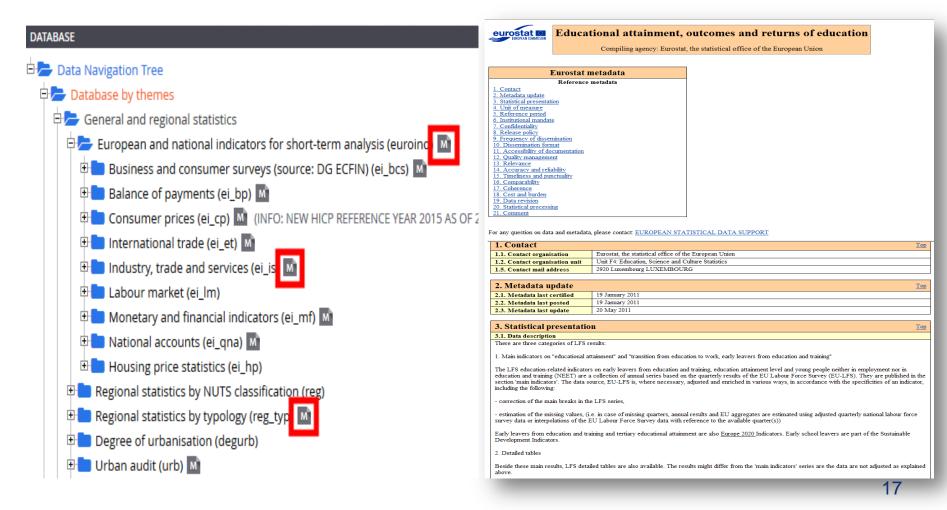
	Concept name
1	Contact
1.1	Contact organisation
1.2	Contact organisation unit
1.3	Contact name
1.4	Contact person function
1.5	Contact mail address
1.6	Contact email address
1.7	Contact phone number
1.8	Contact fax number
2	Summary process description
3	Workflow
4	Statistical processing
4.1	Data collection
4.2	Source data
4.2.1	Source data - integration
4.2.2	Source data - coding
4.3	Data validation
4.3.1	Data validation in Member States
4.3.2	Validation rules agreed with Member States
4.3.3	Data validation - detection (Eurostat)
4.3.4	Data validation - correction (Eurostat)

	Concept name
4.4	Data compilation
4.4.1	Data compilation - variables
4.4.2	Data compilation - weights
4.4.3	Data compilation - aggregates
4.4.4	Data compilation - finalisation
4.4.5	Data compilation - draftoutput
4.5	Data validation - final
4.5.1	Data validation final - output
4.5.2	Data validation final - explanation
5	Confidentiality
5.1	Confidentiality - data treatment
6	Release policy
6.1	User access
7	Dissemination format
7.1	Publications
7.2	On-line database
7.3	Micro-data access
7.4	Other
8	IT applications
8.1	IT applications for data reception/collection
8.2	IT applications for data processing
8.3	IT applications for data validation
8.4	IT applications for data confidentiality
-	
8.5	IT applications for metadata

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Dissemination of reference metadata





Dissemination of national reference metadata



Harmonised indices of consumer prices (HICP)

Reference Metadata in Euro SDMX Metadata Structure (ESMS)

Compiling agency: Eurostat, the statistical office of the European Union

Eurostat metadata
Reference metadata
1. Contact
2. Metadata update
3. Statistical presentation
4. Unit of measure
5. Reference period
6. Institutional mandate
7. Confidentiality
8. Release policy
9. Frequency of dissemination
10. Dissemination format
11. Accessibility of documentation
12. Quality management
13. Relevance
14. Accuracy and reliability
15. Timeliness and punctuality
16. Comparability
17. Coherence
18. Cost and burden
19. Data revision
20. Statistical processing
21. Comment

	National metadata							
	National re	ference metadata						
National met	National metadata produced by countries and released by Eurostat							
Belgium	Bulgaria	Czech Republic	Denmark					
Germany	Estonia	Ireland	Greece					
Spain	France	Italy	Cyprus					
Latvia	Lithuania	Luxembourg	Hungary					
Malta	Netherlands	Austria	Poland					
Portugal	Romania	Slovenia	Slovakia					
Finland	Sweden	United Kingdom	Iceland					
Norway	Switzerland	Croatia	Turkey					

For any question on data and metadata, please contact: EUROPEAN STATISTICAL DATA SUPPORT

Download

1. Contact	Тор
1.1. Contact organisation	Eurostat, the statistical office of the European Union
1.2. Contact organisation unit	Unit C-5: Price statistics; Purchasing Power Parities. Housing statistics
1.5. Contact mail address	2920 Luxembourg LUXEMBOURG 15

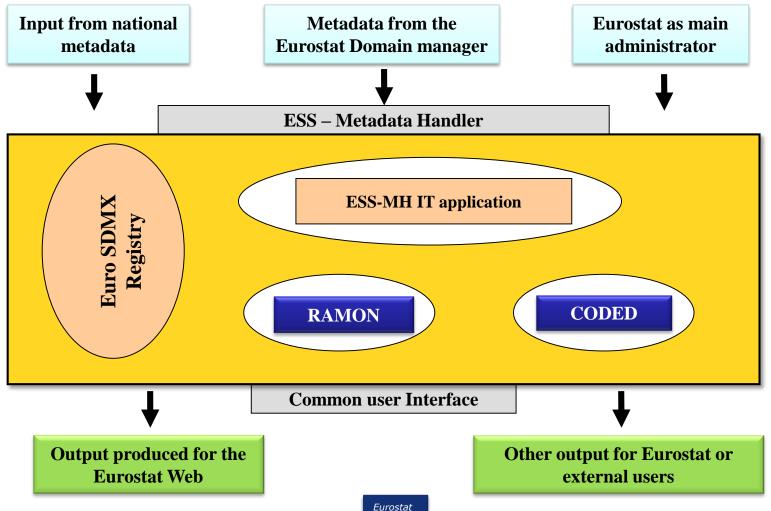
2. Metadata update

Eurostat

Top



The ESS Metadata Handler The business process



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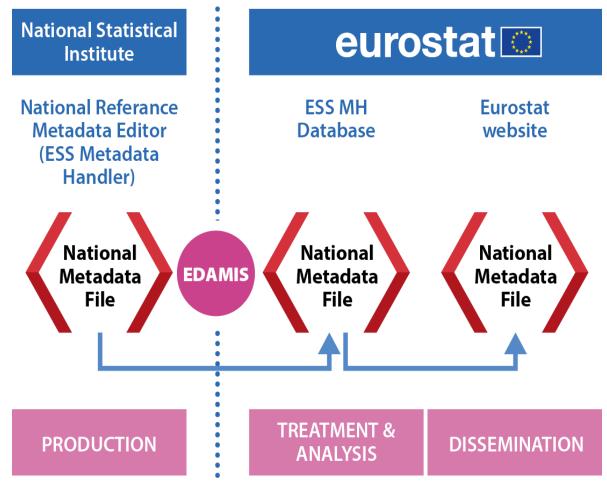


What is the ESS Metadata Handler?

- The ESS Metadata Handler is a web based application for reference metadata production, exchange and dissemination in the ESS;
- It implements the ESS metadata standards (ESMS, ESQRS, EPMS, etc.)
- It replaces EMIS (used in Eurostat) and NRME (for countries);
- It is continuously improved based on users' feedback and new business requirements;
- It is in production since 31 January 2014.



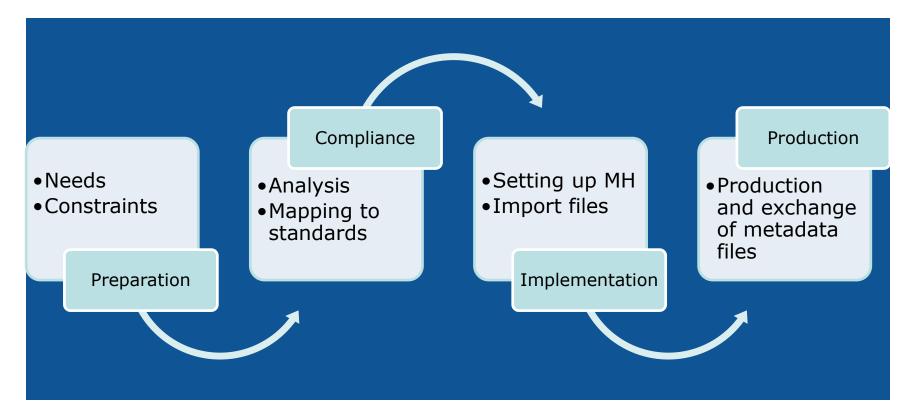
Transmission via EDAMIS



Eurostat



The ESS reference metadata implementation process





Practical Example



Example for reference metadata



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		2 The supply side: Accommodation statistics (Annex I of Regulation 692/2011) 	
		2.1 Basic methodological issues	
		2.1.1 Position of accommodation statistics within the system Let's select a specific topic	
		2.1.2 Statistical unit	
		2.2 Scope of observation metadata report	
		2.2.1 Tourist accommodation establishment	
		2.2.2 Non-rented accommodation	
		2.3 Variables for capacity (Annex I, Section 1)	
		2.2.1 Number of establishments	
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	2.1.1 P	Position of accommodation statistics within the system of tourism statistics 57	ſ
	2.1.2 S	Statistical unit	l.
	2.2 Scope	of observation)
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		2.4.4 Occupancy rate of bed places	
		2.5 Breakdowns for capacity and occupancy	
		2.5.1 Type of locality	
		2.5.2 Type of locality: degree of urbanisation	
		2.5.3 Type of locality: location close to the sea	
		2.5.4 Size class	
		2.5.5 Countries and geographical areas	
		2.5.6 NUTS	
		2.6 Variables for non-rented accommodation	
25		2.7 Breakdowns for non-rented accommodation	5
		2.8 Production methodology	

2 The supply side: Accommodation statistics (Annex I of Regulation 692/2011)

2.1 Basic methodological issues

2.1.1 Position of accommodation statistics within the system of tourism statistics

Accommodation (rented or non-rented) is a core tourism sector even if it is relevant for one part of visitors only (i.e. tourists = overnight visitors). The economic importance of this sector can be seen from the results of TSA of some countries where accommodation services accounted for between 15 to 20% of total internal tourism expenditure. Also when looking at the physical flows, there were over 2.3 billion nights spent at collective accommodation establishments in the EU during the year 2010⁴³.

Accommodation statistics is a key part of the system of tourism statistics in the EU and has a long history of data collection. Annex I of the Regulation deals with accommodation and includes 4 sections focusing on accommodation statistics: section 1 and 2 include the requirements concerning rented accommodation (capacity and occupancy respectively), section 4 includes the (optional) requirements concerning non-rented accommodation ; section 3 includes classifications.

Demand side estimates have shown that observing the can only give a very partial picture: this segment repi Other trips are spent in less formal or small establishm many Member States), in owned dwellings (secondary who offer accommodation for free. In order to complete annual estimate of the so-called "below threshold estab the nights spent in non-rented accommodation (see furt

2.1.2 Statistical unit

A statistical unit refers to one member of a set of entities being studied. For collecting data on accommodation statistics the statistical unit can be as follows:

- Enterprise (e.g. hotel chain),
- Establishment (local unit),
- Local kind-of-activity unit,
- Dwelling used for non-rented accommodation to visitors.

In some cases, the statistical unit can be different from the reporting unit (e.g. local authorities or tourism bodies reporting on the establishments in their area, or a hotel chain replying for all their establishments in a centralised way, or a visitor when the data is collected by means of a household or border survey).

Content of the selected topic

2.2 Scope of observation

Article 4(1, 2); Annex I

Content of the selected topic

Reference 2.2-1: Regulation concerning European statistics on tourism – Scope of observation

The scope of observation for the requirements laid down in

(a) Article 3(1)(a) [= internal tourism, in terms of the capacity and occupancy of tourist accommodation establishment] shall be all tourist accommodation establishments as defined in Article $2(1)(I)^{46}$, unless otherwise specified in Annex I.

(b) Article 3(1)(b) [= internal tourism, in terms of tourism nights spent in non-rented accommodation] shall be all tourism nights by residents and non-residents spent in non-rented accommodation.

2.2.1 Tourist accommodation establishment

Annex I – Section 1, 2 and 3

The scope of observation (or the target population) in accommodation statistics includes all tourist accommodation establishments providing, as a paid service (although the price might be partially or fully subsidised), short-term or short-stay accommodation services.

Tourism accommodation establishments are classified and described in groups according to NACE Rev. 2⁴⁷ classification as follow:

- 55.1 (hotels and similar accommodation),
- 55.2 (holiday and other short-stay accommodation) and
- 55.3 (camping grounds, recreational vehicle parks and trailer parks).

2.2.1.1 NACE 55.1 – Hotels and similar accommodation

This class includes the provision of accommodation, typically on a daily or weekly basis, principally for short stays by visitors. This includes the provision of furnished accommodation in guest rooms and suites. <u>Services include daily cleaning and bed-making</u>. A range of additional services may be provided such as food and beverage services, parking, laundry services, swimming pools and exercise rooms, recreational facilities as well as conference and convention facilities.



Defining a Metadata Structure Definition

The Tasks

- Analysis of the entire set of metadata in order to identify and document the "Concepts" for which metadata are to be reported or disseminated – Concepts Scheme.
- Determine the structure of the "Metadata Report" in terms of the concepts used, the hierarchy of the concepts when used in the report, and their "representation" (e.g. is a code list used, is the format free text?) – MSD & Reporting Structure.
- 3. Specify the "object type" to which the metadata are to be attached, and how this object type is identified: knowledge of the SDMX Information model is useful here (as the metadata can only be attached to object types that can be identified in terms of the object types that exist in the information model).

Metadata Report Structure – Content Metadata

2 The supply side: Accommodation statistics (Annex I of Regulation 692/2011)

2.1 Basic methodological issues

BASIC_METH_ISSUES

2.1.1 Position of accommodation statistics within the system of tourism statistics

Accommodation (rented or non part of visitors only (i.e. touristicated or non part of visitors only (i.e. touristicated or non the results of TSA of some countries where accommodation services accounted for between 15 to 20% of total internal tourism expenditure. Also when looking at the physical flows, there were over 2.3 billion nights spent at collective accommodation

Accommodation statistics is a key part of the system of tourism statistics in the EU and has a

long history of data collection. Annex I c 2.1.2 includes 4 sections focusing on accomm requirements concerning rented accomm section 4 includes the (optional) requiremen 3 includes classifications.

establishments in the EU during the year 201043.

Demand side estimates have shown that ob can only give a very partial picture: this se Other trips are spent in less formal or smal many Member States), in owned dwellings who offer accommodation for free. In order annual estimate of the so-called "below thre the nights spent in non-rented accommodati

- A statistical unit refers to the other of a set of entities being studied. For collecting data on accommodation statisting statistical unit refers to the other of a set of entities being studied. For collecting data on follows:
 - Establishment (local unit),

Statistical unit

- Local kind-of-activity unit,
- Dwelling used for non-rented accommodation to visitors.

In some cases, the statistical unit can be different from the reporting unit (e.g. local authorities or tourism bodies reporting on the establishments in their area, or a hotel chain replying for all their establishments in a centralised way, or a visitor when the data is collected by means of a household or border survey).

2.2 Scope of observation

Article 4(1, 2); Annex I

SCOPE_OBS

Reference 2.2-1: Regulation concerning European statistics on tourism – Scope of observation

The scope of observation for the requirements laid down in

(a) Article 3(1)(a) [= internal tourism, in terms of the capacity and occupancy of tourist accommodation establishment] shall be all tourist accommodation establishments as defined in Article $2(1)(I)^{46}$, unless otherwise specified in Annex I.

(b) Article 3(1)(b) [= internal tourism, in terms of tourism nights spent in non-rented accommodation] shall be all tourism nights by residents and non-residents spent in non-rented accommodation.

2.2.1 Tourist accommodation establishment



Tourism accommodation establishments are classified and described in groups according to NACE Rev. 2⁴⁷ classification as follow:

- 55.1 (hotels and similar accommodation),
- 55.2 (holiday and other NACE_55_1 and 55.3 (camping grounds, Additional other parks).

2.2.1.1 NACE 55.1 – Hotels and similar accommodation

30

This class includes the provision of accommodation, typically on a daily or weekly basis, principally for short stays by visitors. This includes the provision of furnished accommodation in guest rooms and suites. <u>Services include daily cleaning and bed-making</u>. A range of additional services may be provided such as food and beverage services, parking, laundry services, swimming pools and exercise rooms, recreational facilities as well as conference and convention facilities.



Metadata Report Structure – Concept Scheme

The following concepts are derived from this example:

CONTACT

CONTACT_ORG

CONTACT_ORG_UNIT

CONTACT_MAIL_ADDRESS

BASIC_METH_ISSUES

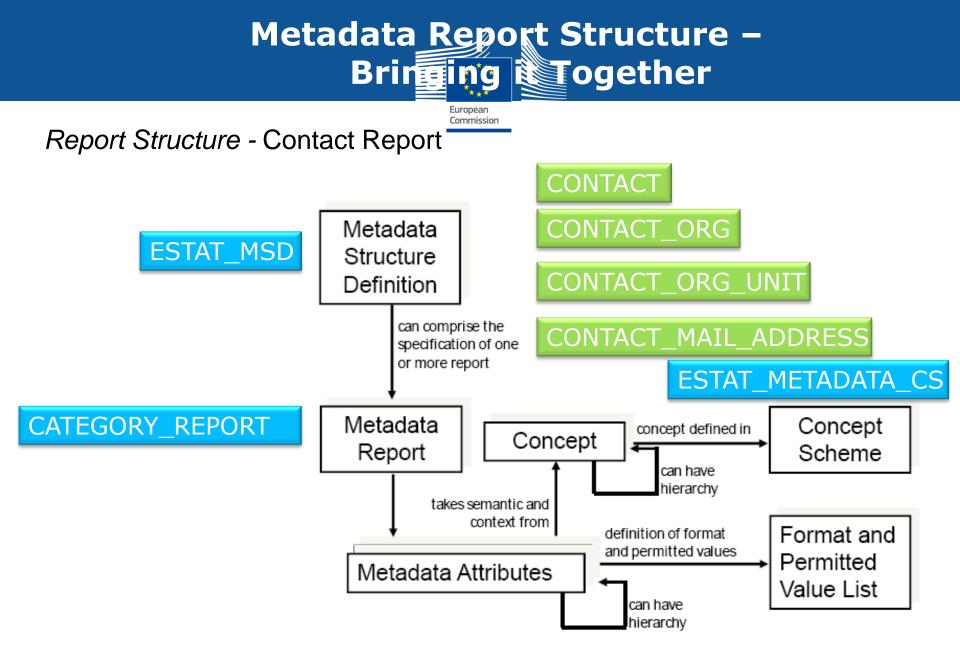
POS_ACC_TOUR

STAT_UNIT

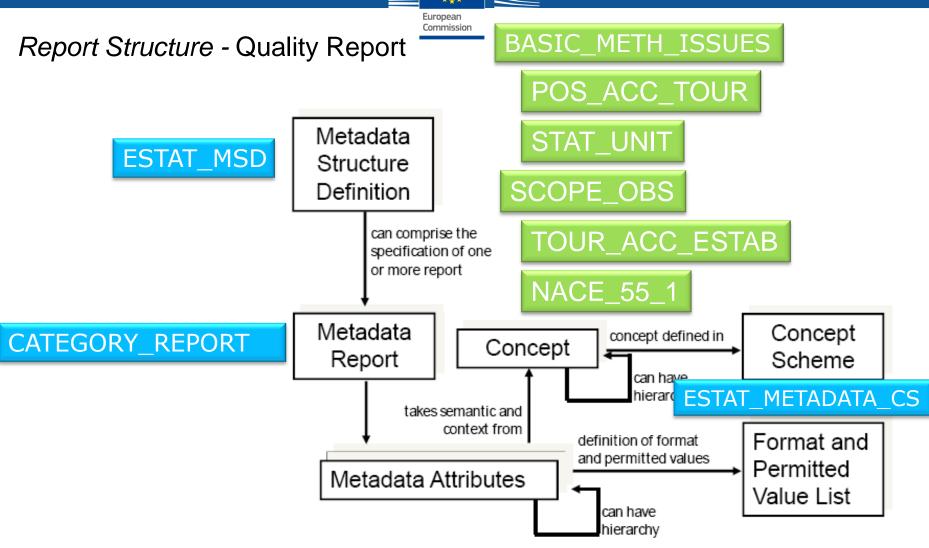
SCOPE_OBS

TOUR_ACC_ESTAB

NACE_55_1



METADATA REPORT STRUCTURE – BRINGING TOGETHER





Metadata Set (FLOW): Structure

References to :

- a Metadata Structure Definition (MSD)
- a Report Structure
- a Target Identifier
- Defines:
 - The actual values of the target objects

Comprises:

- The Reported Attributes and their corresponding Values
- These Attributes may be:
 - coded
 - text
 - date/time
 - *number etc.*



Metadata Set – General Schematic

CATEGORY_REPORT

CONTACT

CONTACT_ORG

Unit G3 Short-term statistics; tourism

CONTACT_ORG_UNIT

Eurostat, Statistical Office of the European Communities

CONTACT_MAIL_ADDRESS

http://epp.eurostat.ec.europa.eu/ portal/page/portal/help/user_sup port

BASIC_METH_ISSUES

POS_ACC_TOUR

Accommodation (rented or non-rented) is a core tourism sector even if it is relevant for one part of visitors only (i.e. tourists = overnight visitors). The economic importance of this sector can be seen from the results of TSA of some countries where accommodation services accounted for between 15 to 20% of total internal tourism expenditure. Also when looking at the physical flows, there were over 2.3 billion nights spent at collective accommodation establishments in the EU during the year 2010⁴³.

Accommodation statistics is a key part of the system of tourism statistics in the EU and has a long history of data collection. Annex I of the Regulation deals with accommodation and includes 4 sections focusing on accommodation statistics: section 1 and 2 include the requirements concerning rented accommodation (capacity and occupancy respectively), section 4 includes the (optional) requirements concerning non-rented accommodation ; section 3 includes classifications.

Demand side estimates have shown that observing the tourism flows in rented accommodation can only give a very partial picture: this segment represents around 50% of the trips made. Other trips are spent in less formal or small establishments (that fall outside the scope set by many Member States), in owned dwellings (secondary residence) and with friends or relatives who offer accommodation for free. In order to complete the picture, the Regulation foresees an annual estimate of the so-called "below threshold establishments" (see further, 2.2.1.5) and of the nights spent in non-rented accommodation (see further, 2.2.2, 2.6 and 2.7).



__kgenericmetadata:MetadataSet> <genericmetadata:MetadataStructureRef>ESTAT MSD</genericmetadata:MetadataStructureRef> <genericmetadata:MetadataStructureAgencyRef>EUROSTAT</genericmetadata:MetadataStructureAgencyRef> <genericmetadata:ReportRef>CATEGORY CONTACT REPORT</genericmetadata:ReportRef> <genericmetadata:AttributeValueSet> <genericmetadata:TargetRef>CATEGORY</genericmetadata:TargetRef> <genericmetadata:TargetValues> <genericmetadata:ComponentValue object="Category">Structural Indicators</genericmetadata:ComponentValue> <genericmetadata:ComponentValue object="DataProvider">Eurostat</genericmetadata:ComponentValue> </genericmetadata:TargetValues> <genericmetadata:ReportedAttribute conceptID="CONTACT"> <genericmetadata:ReportedAttribute conceptID="CONTACT ORG"> <genericmetadata:Value>Unit C2 National accounts : production</genericmetadata:Value> </genericmetadata:ReportedAttribute> <genericmetadata:ReportedAttribute conceptID="CONTACT ORG UNIT"> <genericmetadata:Value>Unit C5 Validation of public accounts</genericmetadata:Value> </genericmetadata:ReportedAttribute> <genericmetadata:ReportedAttribute conceptID="CONTACT MAIL ADDRESS"> <genericmetadata:Value>http://epp.eurostat.ec.europa.eu/portal/page/portal/help/user support </genericmetadata:Value> </genericmetadata:ReportedAttribute> </genericmetadata:ReportedAttribute> </genericmetadata:AttributeValueSet> </genericmetadata:MetadataSet>

METADATA SET – ESM\$ EXAMPLE

eurostat Capacity of collective tourist accommodation : establishments, bedrooms and bedplaces

Compiling agency: Eurostat, the statistical office of the European Union

Eurostat metadata

Reference metadata
1. Contact
 Metadata update
3. Statistical presentation
4. Unit of measure
5. Reference period
6. Institutional mandate
7. Confidentiality
8. Release policy
9. Frequency of dissemination
10. Dissemination format
11. Accessibility of documentation
12. Quality management
13. Relevance
Accuracy and reliability
15. Timeliness and punctuality
16. Comparability
17. Coherence
18. Cost and burden
19. Data revision
20. Statistical processing
21. Comment

For any question on data and metadata, please contact: EUROPEAN STATISTICAL DATA SUPPORT

1. Contact

1.1. Contact organisation

Eurostat, the statistical office of the European Union rden

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		1.	7. 1	Data	1011510	1

Top

2. Metadata update	Тор
2.1. Metadata last certified	28 March 2011
2.2. Metadata last posted	11 October 2010
2.3. Metadata last update	17 August 2011

1. Contact

- 2. Metadata update
- 3. Statistical presentation

4. Unit of measure

5. Reference period

6. Institutional mandate

7. Confidentiality

8. Release policy

9. Frequency of dissemination

10. Dissemination format

11. Accessibility of documentation

12. Quality management

13. Relevance

14. Accuracy and reliability

15. Timeliness and punctuality

n

37

16. Comparability

17. Coherence

20. Statistical processing

21 Comment



Questions?

