



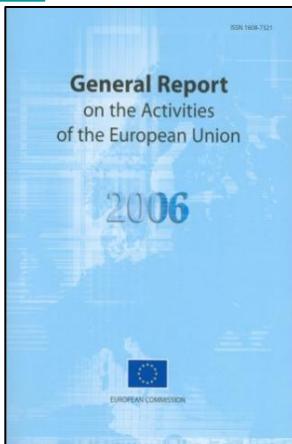
The role of the Publications Office of the EU in semantic web and standardisation activities

SEMIC 2014 conference (9 April 2014)
Marc Wilhelm Küster / Willem van Gemert



▪ “Official” publications

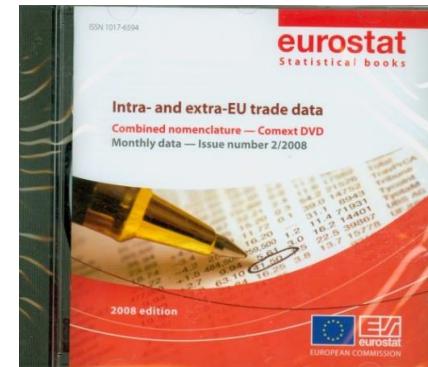
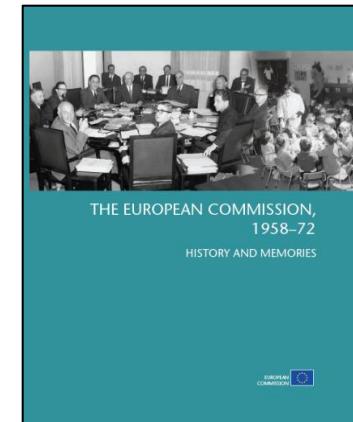
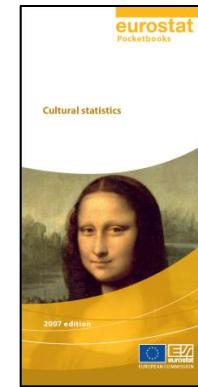
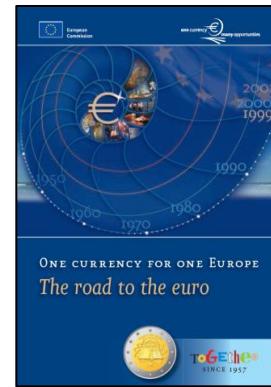
<http://eur-lex.europa.eu>



<http://ted.europa.eu>

▪ Other “general” publications

<http://bookshop.europa.eu>



<http://cordis.europa.eu>





REACH

EUROPEAN CHEMICALS LEGISLATION

Information for Exporters to Europe

What should your
company know?

REACH ME!

What is REACH?

REACH is a European Community Regulation on chemicals and their safe use. It deals with the Registration, Evaluation, Authorisation and Restriction of Chemical substances.



European
Commission



european Union

L 396/1

1 - FR
gislatives Suite



REACH — Registration, Evaluation and Authorisation of Chemicals

01/06/2007

(is obligatory)

Journal officiel
de l'Union européenne

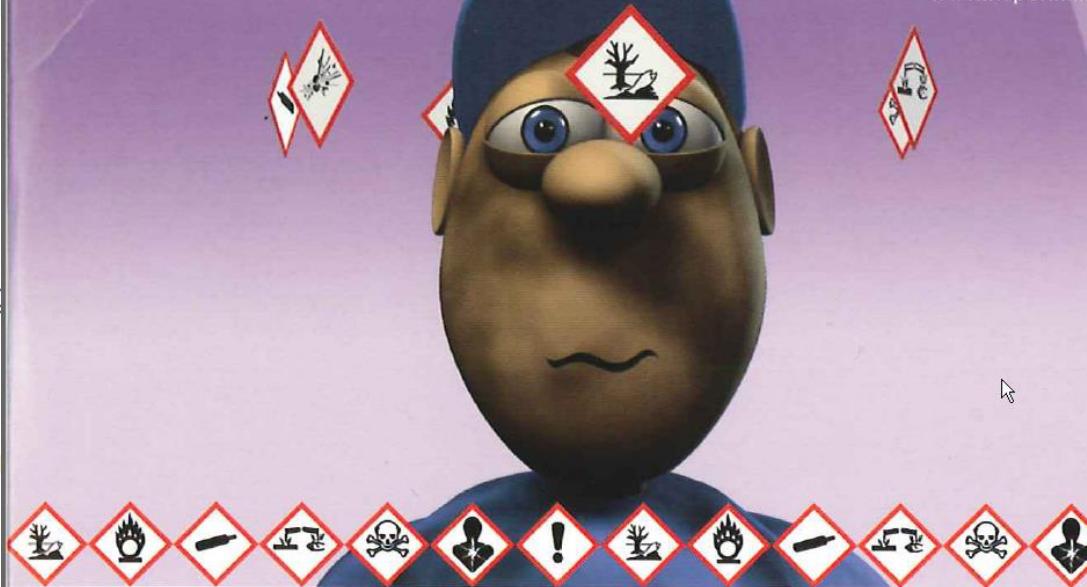
L 396

In order to introduce a chemical substance on the European market, a manufacturer or importer must demonstrate its safety. It has to submit comprehensive information on products.

Safety and health at work is everyone's concern. It's good for you. It's good for business.

Napo in... Danger: chemicals!

www.napofilm.com



INAIL

inrs

suva

AV

DGUV

HSE

European
Agency for Safety
and Health at Work



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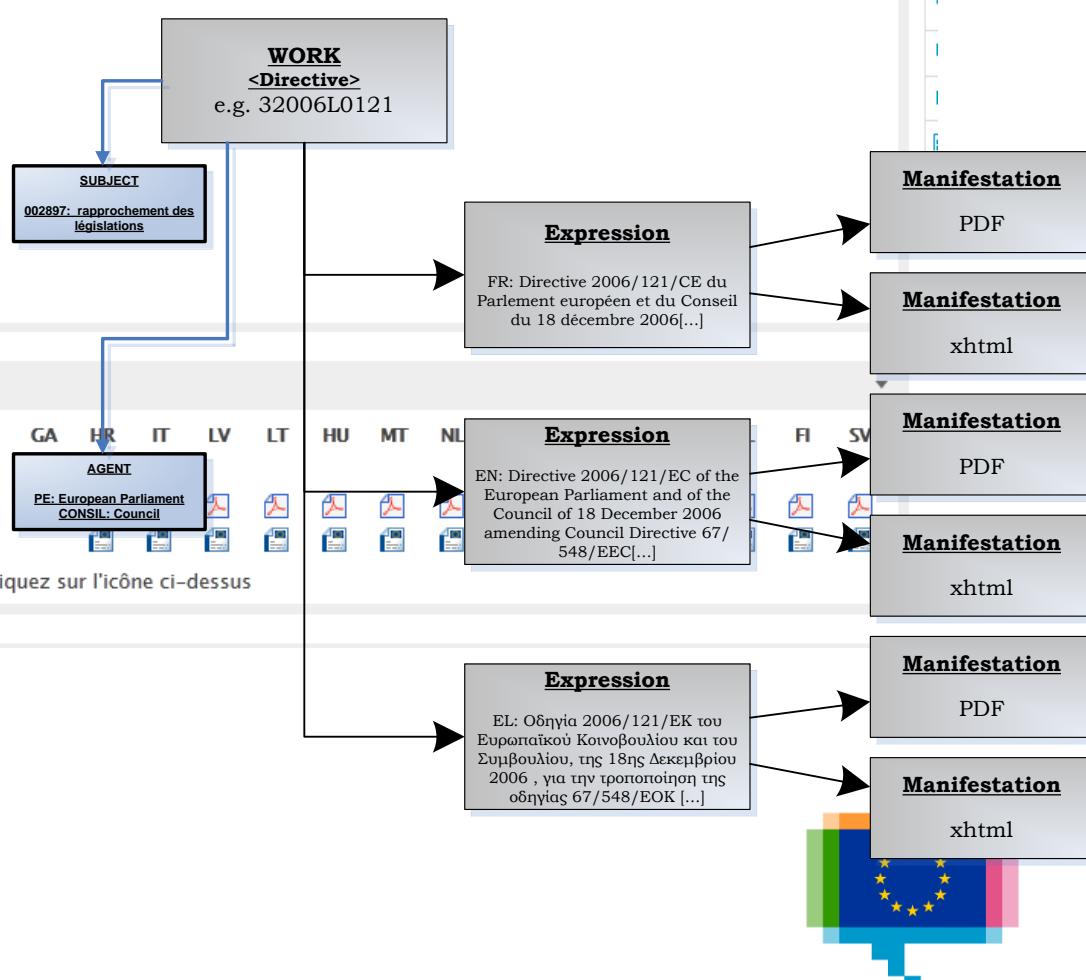
Tout réduire | Tout afficher

Titre et référence

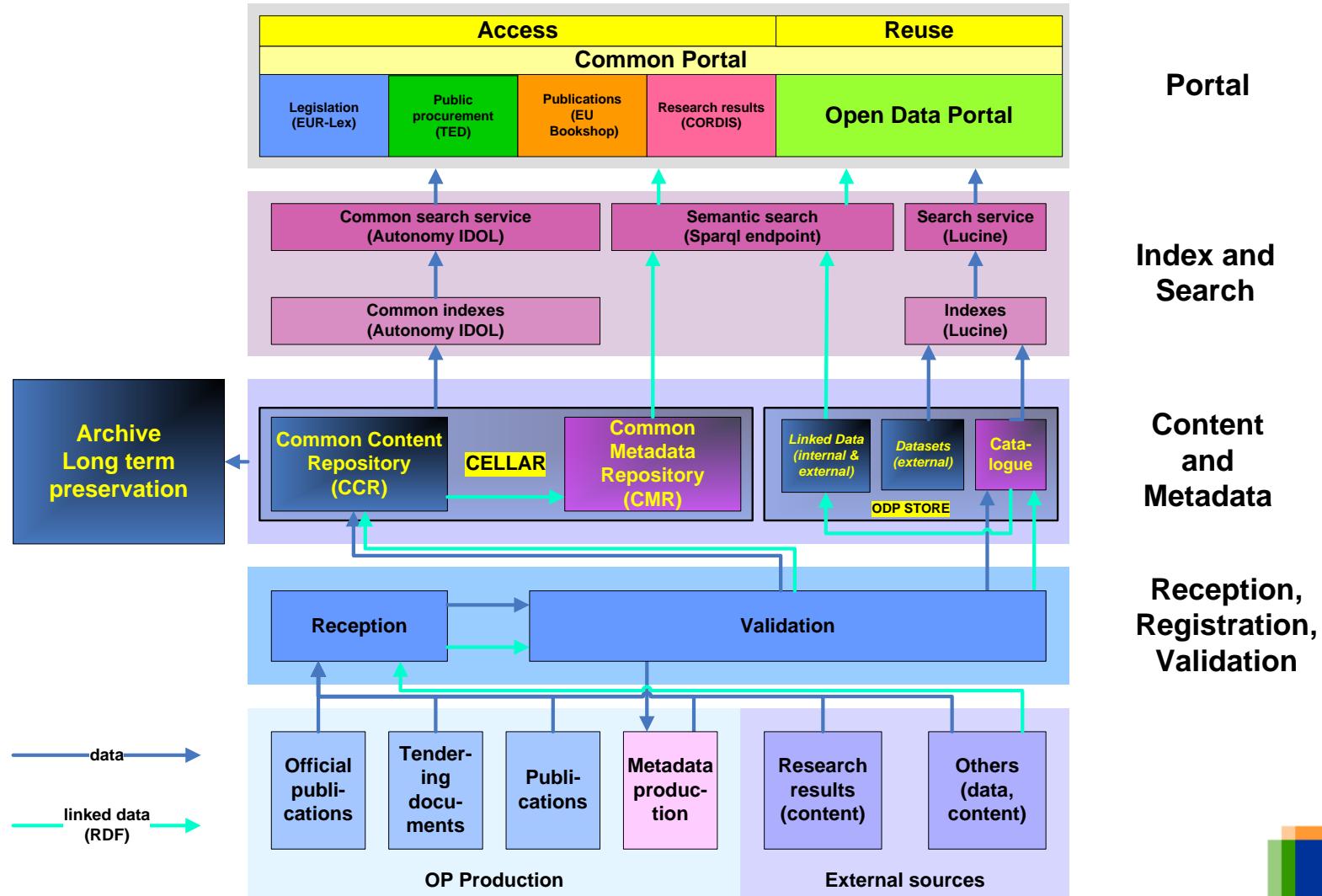
Directive 2006/121/CE du Parlement européen et du Conseil du 18 décembre 2006 modifiant la directive 67/548/CEE du Conseil concernant le rapprochement des dispositions législatives, réglementaires et administratives relatives à la classification, l'emballage et l'étiquetage des substances dangereuses afin de l'adapter au règlement (CE) n° 1907/2006 concernant l'enregistrement, l'évaluation et l'autorisation des substances chimiques ainsi que les restrictions applicables à ces substances (REACH), et instituant une agence européenne des produits chimiques

JO L 396 du 30/12/2006, p. 795-801 (PL)
JO L 396 du 30/12/2006, p. 851-857 (ET, LV, LT, MT, SK)
JO L 396 du 30/12/2006, p. 853-859 (ES, DA)
JO L 396 du 30/12/2006, p. 850-856 (EN, FR, IT, FI, SV)
JO L 396 du 30/12/2006, p. 855-861 (PT)
JO L 396 du 30/12/2006, p. 850-855 (SL)
JO L 396 du 30/12/2006, p. 852-858 (CS, DE, HU)
JO L 396 du 30/12/2006, p. 854-860 (EL)
JO L 396 du 30/12/2006, p. 849-855 (NL)

édition spéciale bulgare: chapitre 13 tome 059 p. 11 - 12
édition spéciale roumaine: chapitre 13 tome 059 p. 11 - 12
édition spéciale croate chapitre 13 tome 016 p. 293 - 294



Content and Metadata Layer

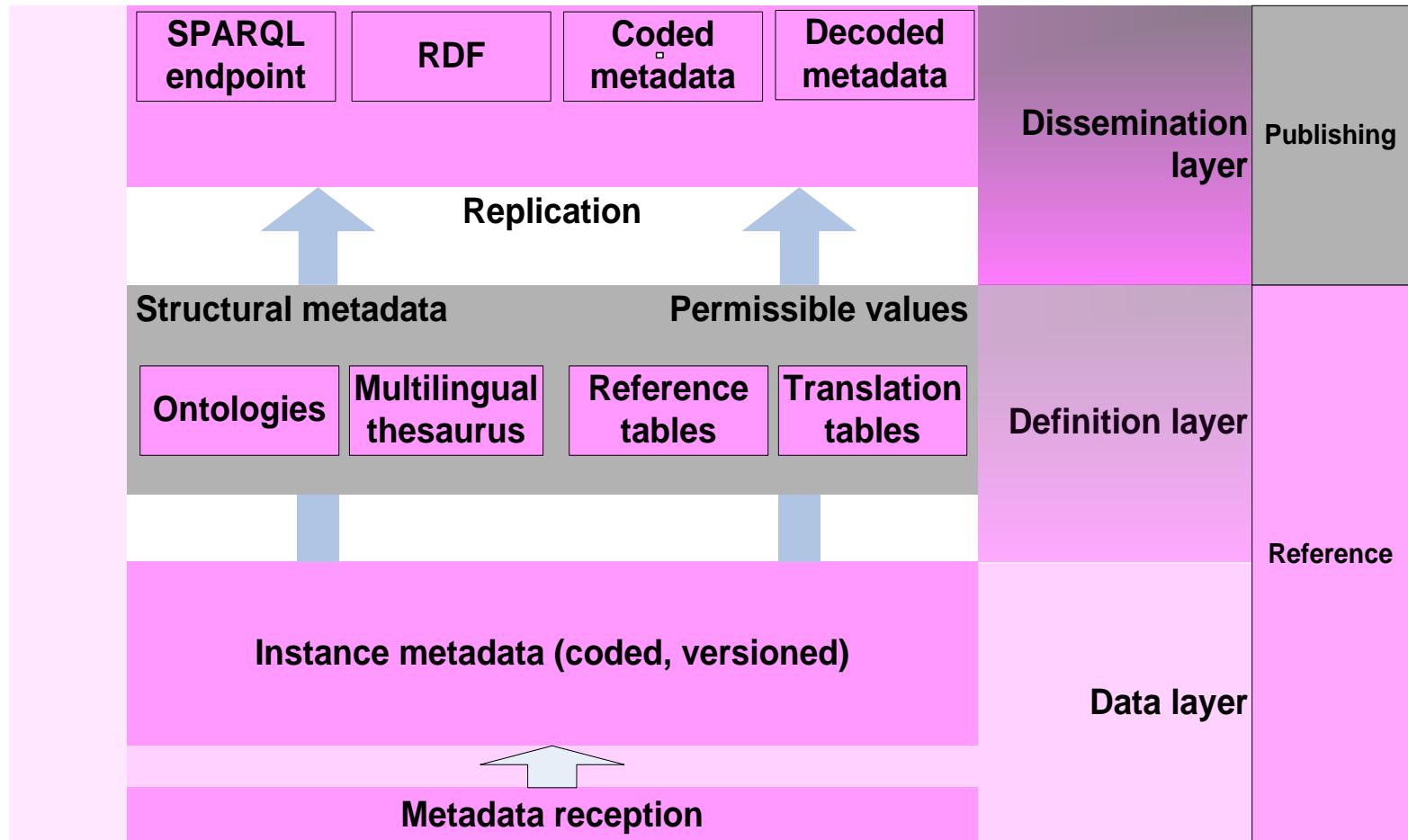


By Peter Schmitz





CELLAR – metadata repository



Based on slide from Peter Schmitz



Semantic technology aspects - Open Data

- Dublin Core (core metadata)
 - Linked Open Data (LOD)
 - Web-friendly ("RESTful")
 - Resource Description Framework
 - Standard Query Language
 - FRBR compliant

Sparql Endpoint

```
Used prefixes:  
oracle: <http://www.oracle.com/2009/05/orardf/jena-joseki-ns#>  
rdfs: <http://www.w3.org/2000/01/rdf-schema#>  
rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>  
xsd: <http://www.w3.org/2001/XMLSchema#>  
module: <http://joseki.org/2003/06/module#>  
joseki: <http://joseki.org/2005/06/configuration#>  
ja: <http://jena.hpl.hp.com/2005/11/Assembler#>  
cdm: <http://publications.europa.eu/ontology/cdm#>  
owl: <http://www.w3.org/2002/07/owl#>  
cmr: <http://publications.europa.eu/ontology/cdm/cmr#>  
Example query: None
```

25 </binding>
26 </result>
27 <result>
28 <binding name="work_uri">
29 <uri>http://cellar-dev.publications.europa.eu/resource/celex/71967L0548ROU%2802%29</uri>
30 </binding>
31 </result>
32 <result>
33 <binding name="work_uri">
34 <uri>http://cellar-dev.publications.europa.eu/resource/oj/JOC 2008 022 R 0038 01</uri>

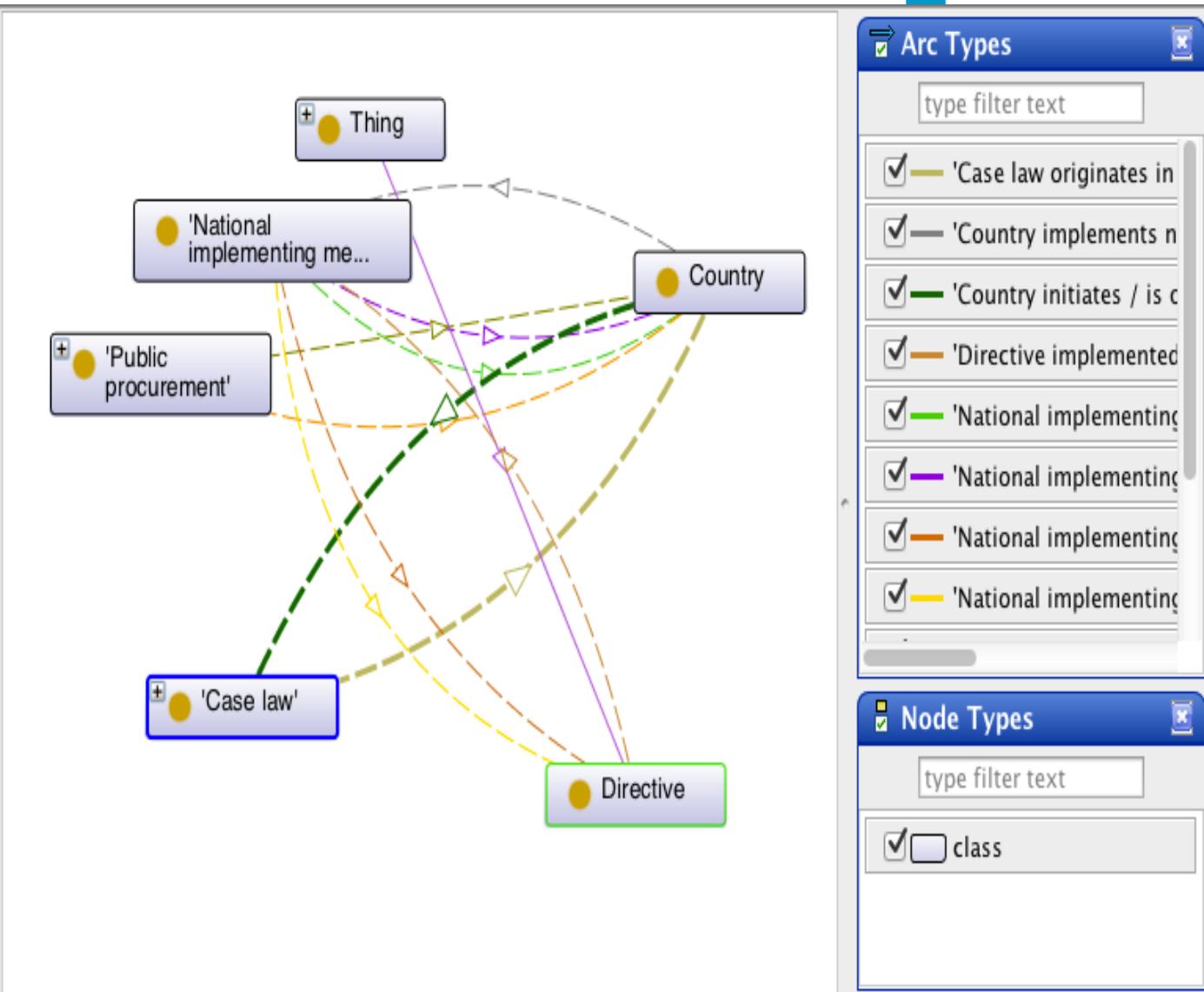
```
Select / Ask
PREFIX cdm: <http://publications.europa.eu/ontology/cdm#>
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
SELECT ?work_uri WHERE { ?work_uri|rdf:type cdm:work}
35      </binding>
36    </result>
37  <result>
38    <binding name="work_uri">
39      <uri>http://cellar-dev.publications.europa.eu/resource/oj/JOC_2008_123_R_0001_01</uri>
40    </binding>
```

[Submit Query](#)



Why RDF?

- OWL: declarative datamodel
- Links: everything interconnected
- Open Data: RDF core standard
- → OP's data: a giant graph



Common Data Model (CDM)

cdm (<http://publications.europa.eu/ontology/cdm>) - [H:\MetaConv\cdm\cdm.rdf]

File Edit Ontologies Reasoner Tools Refactor Tabs View Window Help

cdm (<http://publications.europa.eu/ontology/cdm>)

Active Ontology Entities Classes Object Properties Data Properties Individuals OWLViz DL Query

Class hierarchy Class hierarchy (inferred)

Annotations Usage

Usage: decision

Show this disjoints named sub/superclasses

Found 4 uses of decis

- decision
 - Class: decision
 - decision SubClassOf legislation secondary
- decision service associated
 - decision_service_associated Domain decision
- decision service responsible
 - decision_service_responsible Domain decision

Description: decision

Equivalent classes +

Superclasses +

legislation secondary

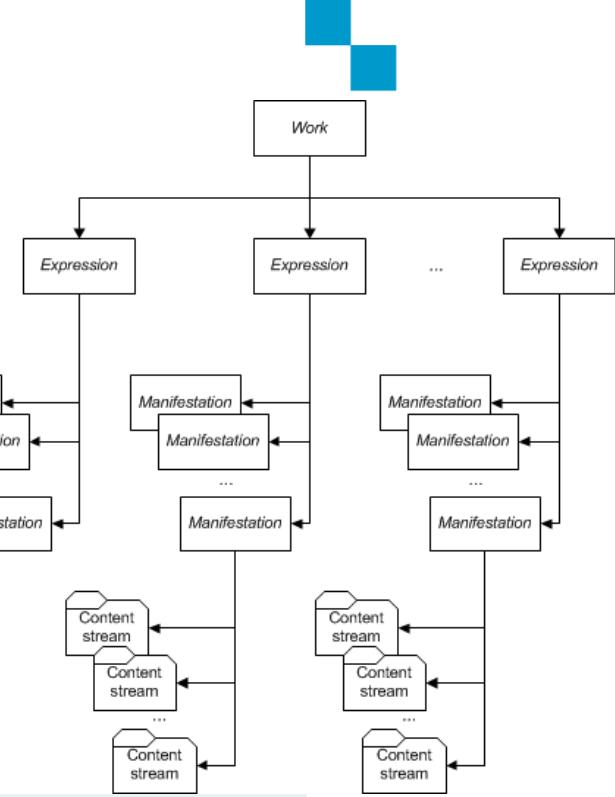
Inherited anonymous classes

- work has expression min 1 expression
- work embargo max 1 Literal
- work table-of-contents max 1 Literal
- work date creation legacy max 1 Literal
- work date document exactly 1 Literal
- work created by agent min 1 agent
- resource legal has type act concept type act exactly 1 concept type act
- resource legal date vote max 1 Literal
- resource legal id celex exactly 1 Literal
- resource legal number corrigendum max 1 Literal
- resource legal number sequence celex max 1 Literal
- resource legal date request caducity max 1 Literal
- resource legal year exactly 1 Literal
- resource legal number natural celex max 1 Literal
- resource legal id sector exactly 1 Literal
- resource legal in-force max 1 Literal

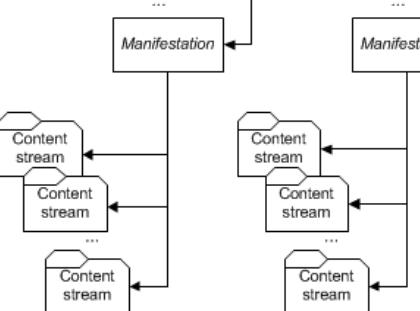
No Reasoner set Show Inferences



CELLAR URI templates



<http://publications.europa.eu/resource/{ps-id}/{obj-id}>

Type	{ps-id}	Example	
work dossier agent	{work-id}	32006D0241	
expression	{work-id}.{expr-id}	32006D0241.fra	
manifestation	{work-id}.{expr-id}.{man-id}	32006D0241.fra.FORMEX	
content stream	{work-id}.{expr-id}.{man-id}.{cs-id}	32006D0241.fra.FORMEX. L_2006088FR.01006402.xml	
event	{work-id}.{event-id}	11260.12796	



The screenshot shows a web browser window with the following details:

- Address Bar:** http://cellar-dev.publications.europa.eu/resource/celex/22006A0801%2801%29
- Header Bar:** Includes back, forward, search, and other standard browser controls.
- Left Sidebar:** Contains icons for file operations like Open, Save, Print, and a magnifying glass.
- Page Content:**
 - Page number: 11/т. 47
 - Language: BG
 - Document ID: 22006A0801(01)
 - Page range: L 211/24
 - Section titles: ОФИЦИАЛЕН ВЕСНИК НА ЕВРОПЕЙСКИЯ СЪЮЗ and ЕВРОПЕЙСКАТА ОБЩНОСТ.
 - Text snippets:
 - между Европейската общност, от една страна, и УКРАЙНА, от друга страна, (наричани по-долу „страниците“), КАТО ОТБЕЛИЯЗВАТ, че двустранните споразумения между Европейската общност и Украина, същъстват, КАТО ОТБЕЛИЯЗВАТ, че Европейската общност и трети страни, КАТО ВЗЕМАТ ПРЕДВИД споразуменията между Европейската общност и някои трети страни, предвиждащи възможността граждани на тези страни да придобиват собственост във въздушни превозвачи, получили лицензия в съответствие с правото на Европейската общност;
 - КАТО ПРИЗНАВАТ, че някои разпоредби на двустранните споразумения за въздухоплавателни услуги между държавите-членки на Европейската общност и Украина, които противоречат на правото на Европейската общност, трябва да бъдат приведени в
- Dialog Box:** A "Modify Headers" dialog box is open, listing various HTTP headers and their values. The table includes columns for Action, Name, Value, and Comment. A legend indicates green dots for Enabled and red dots for Disabled.
- Bottom Right:** A large blue banner with the text "One work, multiple representations" and the European Union flag.

ÉDITION SPÉCIALE

TEXTES DES DÉCISIONS
DE LA HAUTE AUTORITÉ
SUR LES PRÉLÈVEMENTS PRÉVUS
AUX ARTICLES 49 ET 50 DU TRAITÉ

SOMMAIRE

HAUTE AUTORITÉ

Décision N° 3-52 fixant les conditions d'exercice et de perception des prélevements prévus aux articles 49 et 50 du Traité.

3 Décision N° 3-52 relative à la perception pendant l'exercice financier 2001-2002 des prélevements prévus aux articles 49 et 50 du Traité.

4

Décision N° 3-52 fixant le montant et la modalité d'application des prélevements prévus aux articles 49 et 50 du Traité.

5

note préliminaire sur articles 49 et 50 du Traité.

4

Cellar in numbers

- > 3.5 million requests per day served on average
- > **950.000** different works & dossiers in > 9.3 million expressions and > 17 million manifestations
- **67** million files
- > **140** million persistent identifiers
- **1100** million triples in Oracle RDF store
- Ca. 3000 works added each day (most in 23 languages)
- Sizes:
 - EU law in **2,8** TB Oracle DB (compressed), other collections are being added
 - Content (in Fedora repository) ca. **5,25** TB
- Expandable set of dissemination nodes → fully scalable
- Two failover systems

State:2014-04-02



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Title and reference

Authentic language

Dates

Classifications

- EUROVOC descriptor:
[marketing standard](#)
[chemical product](#)
[approximation of laws](#)
[dangerous substance](#)
[scientific report](#)
[packaging](#)
[European Chemicals Agency](#)
[labelling](#)

- Subject matter:
[Approximation of laws](#)
[Consumer protection](#)
[Technical barriers](#)
[Environment](#)
[Internal market – Principles](#)

EUROVOC

<http://eurovoc.europa.eu/213053>

<http://eurovoc.europa.eu/2739>

<http://eurovoc.europa.eu/2897>

...

Περιγραφέας EUROVOC:
 κανόνας εμπορίας

χημικό προϊόν
 προσέγγιση των νομοθεσιών
 επικίνδυνη ουσία

επιστημονική πραγματογνωμοσύνη
 συσκευασία

Ευρωπαϊκός Οργανισμός Χημικών Προϊόντων
 επισήμωση

ELL

Descripteur EUROVOC:
 norme de commercialisation
 produit chimique
 rapprochement des législations
 substance dangereuse
 expertise scientifique
 emballage
 Agence européenne des produits chimiques
 étiquetage

FRA

EUROVOC deskriptorius:
 rinkodaros standartas
 cheminių produktas
 teisės aktų derinimas
 pavojingoji medžiaga
 mokslinė ataskaita
 pakavimas
 Europos cheminių medžiagų agentūra
 ženklinimas etiketėmis

LIT

Authority Tables in t

PLACES HTML EX

TABLE-ID: place

Current entries date: 2013-06-0

PLACES RECORDS

First letter: A B C D E F G H I

Authority code	
AND_ALV	Ar
BEL_AAB	Ar
BEL_ANR	Ar
BEL_ARL	Ar
BEL_ATH	At
CIV_ABJ	At
DEU_AAH	At
DEU_AGB	At
DNK_AAR	Az
DZA_ALG	al-
EGY_CAI	al-
ESP_ALC	Ali
ESP_LEI	Almería
ETH_ADD	Addis Ababa
FRA_AJA	Ajaccio
FRA_ANE	Angers
FRA_ANG	Angoulême
FRA_ARR	Arras
FRA_AVN	Avignon

Sparql Endpoint	concept	label
Used prefixes:	< http://publications.europa.eu/resource/authority/place/GRC_ATH >	"Athene" @nl
oracle: < http://www.oracle.com/2005/01/rdf-schema.html# >	< http://publications.europa.eu/resource/authority/place/GRC_ATH >	"Αθήνα" @el
rdfs: < http://www.w3.org/2000/01/rdf-schema.html# >	< http://publications.europa.eu/resource/authority/place/GRC_ATH >	"Athen" @de
rdf: < http://www.w3.org/1999/02/22-rdf-syntax-ns.html# >	< http://publications.europa.eu/resource/authority/place/GRC_ATH >	"Athènes" @fr
xsd: < http://www.w3.org/2001/XMLSchema.html# >	< http://publications.europa.eu/resource/authority/place/GRC_ATH >	"An Aithin" @ga
module: < http://joseki.org/2003/06/module.html# >	< http://publications.europa.eu/resource/authority/place/GRC_ATH >	"Atenas" @pt
joseki: < http://joseki.org/2005/06/joseki.html# >	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroúpolis" @et
ja: < http://jena.hpl.hp.com/2005/11/jena.html# >	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @fi
cdm: < http://publications.europa.eu/resource/authority/cdm.html# >	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @hu
owl: < http://www.w3.org/2002/07/owl.html# >	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @hu
cldr: < http://publications.europa.eu/resource/authority/cldr.html# >	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @da
Example query: None	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @da
Select / Ask	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alessandropoli" @it
PREFIX skos: < http://www.w3.org/2004/02/skos/core.html# >	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @mt
SELECT ?concept ?label	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Αλεξανδρούπολη" @el
WHERE {	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandrópolis" @pt
?concept a skos:Concept .	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @sv
?concept skos:prefLabel ?label .	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @sk
?concept skos:inScheme < http://publications.europa.eu/resource/authority/scheme/GRC_AXD >	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Αλεξανδρούπολη" @el
} ORDER BY ?concept	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupoli" @nl
OFFSET 6200	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Aleksandrupole" @lv
LIMIT 1000	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @fr
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alejandrópolis" @es
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandropolis" @de
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Aleksandroupolis" @sl
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Aleksandroupolis" @pl
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Aleksandropole" @lt
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Almería" @es
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @cs
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Alexandroupolis" @en
	< http://publications.europa.eu/resource/authority/place/GRC_AXD >	"Korfu" @cs
	FR_ANR	50°17'29"N 24°56'51"E
	FR_AVN	43°57'00"N 4°49'01"E
		201

The Publications Office Metadata Registry (MDR)

■ Reference Data Repository

- Publications Office
- Interinstitutional Metadata Maintenance Committee (IMMC)

■ Framework for harmonisation and standardisation

- Governance
- Documentation

■ Reuse of reference data

- Human-readable formats
- Machine-readable formats



[MDR > Home](#)

Welcome to the Metadata Registry (MDR). The Metadata Registry registers and maintains definition data (metadata elements, named authority lists, schemas, etc.) used by the different European Institutions involved in the legal decision making process gathered in the Interinstitutional Metadata Maintenance Committee (IMMC) and by the Publications Office of the EU in its production and dissemination process.

The following definition data are maintained in the Metadata Registry:

- [Named Authority Lists](#) (Common Authority Tables/Value lists)
- [IMMC Core Metadata element set](#)
- [EuroVoc](#) thesaurus and alignments (SKOS/XML distributions)
- [Official Journal Electronic Exchange Protocol](#) (OJEEP)
- [Style sheets for presentation](#)
- Common Data Model (ontology used in the CELLAR)

The Metadata Registry is maintained by the [Publications Office of the EU](#).

[Contact](#)

Last modified: 02/04/2014 12:35



Reference data assets published today in MDR

■ Authority tables (value vocabularies/controlled lists)

- Authority code <authority-code>LUX</authority-code>
- Labels in up to 23-24 official EU languages
- Mappings to legacy codes/external standards:

```

<name>
<original.name>
  <lg.version lg="deu" gender.grammar="N">Luxemburg</lg.version>
  <lg.version lg="fra" gender.grammar="M">Luxembourg</lg.version>
  <lg.version lg="ltz">Lëtzebuerg</lg.version>
<code-3166-1-alpha-2>LU</code-3166-1-alpha-2>
<code-3166-1-alpha-3>LUX</code-3166-1-alpha-3>
<code-3166-1-num>442</code-3166-1-num>
<lg version lg="bos">Luksembourg</lg.version>
<lg version lg="bul" script="Cyrillic">Люксембург</lg.version>
<lg.version lg="cat">Luxemburg</lg.version>
<lg.version lg="ces">Lucembursko</lg.version>
<lg.version lg="dan">Luxembourg</lg.version>
<lg.version lg="deu" gender.grammar="N">Luxemburg</lg.version>
<lg.version lg="ell" script="Greek">Λουξεμβούργο</lg.version>
<lg.version lg="eng" gender.grammar="N">Luxembourg</lg.version>
<lg.version lg="est">Luksemburg</lg.version>
<lg.version lg="eus">Luxemburgo</lg.version>
<lg.version lg="fao">Luksemburg</lg.version>
<lg.version lg="fin">Luxemburg</lg.version>
<lg.version lg="fra" gender.grammar="M">Luxembourg</lg.version>
<lg.version lg="gle">Lucsamburg</lg.version>
<lg.version lg="glg">Luxemburgo</lg.version>
<lg.version lg="hrv">Luksemburg</lg.version>
<lg.version lg="hun">Luxemburg</lg.version>
<lg.version lg="isl">Lúxemborg</lg.version>
<lg.version lg="ita">Lussemburgo</lg.version>

```

■ IMMC Core Metadata exchange protocol

- Core Metadata schema used in exchanges between institutions in the legislative decision making process
- Transmission protocol schema
- Institution specific schema extensions
- Associated authority tables

■ EuroVoc resources (XML and SKOS distributions)

■ Other OP specific reference data (css files, ...)



Authority tables available today in MDR

- Corporate bodies (EU institutions, agencies and other bodies, services etc.)

Authority code	Class	Label	Long Label	Acronym	Date of event	Legal basis	Status	Predecessor	Successor
ECSC	EU	Communauté européenne du charbon et de l'acier		CECA	1951 – 2002		deprecated		
EEC	EU	Communauté économique européenne			1958 – 1993		deprecated		Communauté européenne
EAEC	EU	Communauté européenne de l'énergie atomique		Euratom	1958 –		current		
EC	EU	Communautés européennes			1967 – 2009		deprecated		Union européenne
EURCOM	EU	Communauté européenne			1993 – 2009	C 191, 29.7.1992	deprecated	Communauté économique européenne	Union européenne
EURUN	EU	Union européenne			2009 –		current	Communautés européennes Communauté européenne	
COM	EU	Commission européenne	Commission de l'Union européenne		2009 –		current	Commission européenne	
COM	EU	Commission européenne	Commission des Communautés européennes		1967 – 2009		deprecated	Haute-Autorité	Commission européenne

- Places (locations relevant for EU domain)

- Resource types (types of documents, e.g. regulation, directive, judgment etc.)
- Roles (role an agent can play, e.g. president, member, defendant, etc.)
- Treaties





Dissemination and reuse

■ Authority tables

▪ Persistent URI (table + concepts)

- Will be de-referencable soon

▪ Distribution formats

- XML (source)
- SKOS
- HTML

■ Distribution as well through:

▪ Open Data Portal

- Authority tables
- EuroVoc

▪ Joinup (ADMS descriptions)

- Authority tables
- EuroVoc

<http://publications.europa.eu/resource/authority/country>

<http://publications.europa.eu/resource/authority/country/111X>

Contact | Search | Glossary | Help | Partners | Analytics Disclaimer | English (en) ▾

 joinup Share and reuse interoperability solutions for public administrations

European Commission > ISA > Joinup > Semantic assets > Federated repositories > Metadata registry

Home My Page Communities Semantic Assets Software News Events e-Library People

Semantic Assets Catalogue of Assets Projects Federated Repositories Advanced Search MDR Metadata Registry Submitted by [Willems Van Gemert](#) on January 04, 2013 Rating: 5/5 (based on 2 votes) | 1419 reads

Propose a Repository Propose an Asset Release Export description metadata Propose your... Share this on... Subscribe to Newsletter

Semantic Assets Share and reuse semantic interoperability assets.

MDR Metadata Registry

The Metadata Registry of the Publications Office of the EU is the central reference location where all metadata definitions and related authority data used in Publications Office and in the data exchange between the institutions involved in the legal decision making process.

Additional information ▶

Asset releases ▾

[Explore this repository](#)

Countries Name Authority List 20140225-0
The Countries name authority list (NAL) or Common Authority Table (CAT) is a controlled vocabulary listing countries with their authority code and label(s) in the 24 official languages of the EU (when available). The list is based on the ISO standard ISO 3166-1/alpha-3. The Countries NAL is part of the Core Metadata (CM) used in the data exchange between the institutions involved in the legal decision making process and the Publications Office of the EU.

Corporate bodies Name Authority List 20140225-0



MDR: Work in progress and plans for the future

■ Making authority tables available as linked data

- Dissemination through CELLAR
- Dereferencing of tables and individual concepts
- Alignment with other vocabularies ([Library of Congress](#), [VIAF](#), ...)

The Library of Congress > Linked Data Services > MARC Countries
Greece
From MARC List of Countries

[Details](#) [Visualization](#)

URI(s)
 > <http://id.loc.gov/vocabulary/countries/gr>
 > <info:lc/vocabulary/countries/gr>

Instance Of
 > [MADS/RDF Geographic](#)
 > [SKOS Collection](#)
 > [RDF Resource](#)
 > [MARC Country](#)

Scheme Membership(s)
 > [MARC List of Countries](#)

Collection Membership(s)
 > [Past and Present Countries Entries](#)

Codes
 > gr

Variants
 > [Aegean Islands](#)
 > [Crete](#)
 > [Dodecanese](#)
 > [Ionian Islands](#)
 > [Mount Athos](#)

Additional Related Forms
 > [GREECE](#); [GRECE](#)

VIAF
Virtual International Authority File

Search
Select Field: All VIAF Select Index: Search Terms: Search

DCAT application profile for data portals in Europe

DCAT APPLICATION PROFILE FOR EUROPEAN DATA PORTALS

Download (4 stars) Editor's choice

Submitted by [Stijn Goedertier](#) on March 08, 2013

Rating: 4/5 (based on 4 votes) | 1,683 reads

12 people uses this project

Description

The **DCAT Application profile for data portals in Europe** (DCAT-AP) is a specification based on the Data Catalogue vocabulary ([DCAT](#)) for describing public sector datasets in Europe. Its basic use case is to enable cross-data portal search for data sets and make public sector data better searchable across borders and sectors. This can be achieved by the exchange of descriptions of data sets among data portals.

The DCAT-AP is used in the [Open Data Support](#) service initiated by the European Commission with the purpose of realising the vision of the pan-European Data Portal(s).



MDR clients/partners

■ Interinstitutional level

- CELLAR (Common Content & Metadata repository)
- IMMC (EU institutions)
- Dissemination sites (EUR-Lex, EU-Bookshop, TED, Cordis, Who is Who)
- Open Data Portal (ODP)
- ISA programme
- JRC (Inspire)
- COMREF
- ELI (European Legislation Identifier)
- ECLI (European Case Law Identifier)
- EC Central Library (EAC)
- ...

■ Worldwide

- ADMS (Joinup)
- DCAT application profile
- ...



EuroVoc, multilingual thesaurus of the EU

- Multilingual
 - 24 languages
 - 23 EU official languages and Serbian
- Multidisciplinary thesaurus
 - Strong EU coverage
 - Not specialised
- Current version (version 4.4)
 - Concepts: 6 800
 - ConceptSchemes:
 - 21 Domains, 120 Microthesauri
 - Published on 15 December 2012
- Alignments with other vocabularies
 - EuroVoc with Agrovoc
 - EuroVoc with Eclas
 - EuroVoc with Gemet
- SKOS, XML and alignments a
 - Free to use, reuse, link at commercial purposes

LANGUAGE EQUIVALENTS		
BG	цифрово устройство	CS
ES	retraso digital	NATIONAL RELATIONS
CS	digitální propast	EAN UNION
DA	it-kløft	
DE	digitale Kluft	
ET	digitaalne lõhe	OMICS
EL	ψηφιακό χάσμα	
EN	digital divide	
FR	fossé numérique	CE
HR	digitalna podjeljenost	QUESTIONS
IT	divario digitale	.6 ECONOMICS
LV	digitālās atšķirības	.606 economic policy
LT	skaitmeninė atskirtis	.611 economic growth
HU	digitális megosztottság	.616 regions and regional policy
MT	il-qasma digiitali	.621 economic structure
NL	digitale kloof	.626 national accounts
PL	luka cyfrowa	.631 economic analysis
PT	fosso digital	
RO	divizare digitală	TRADE
SK	digitálna priečasť	.006 trade policy
SL	digitalni razkorak	.011 tariff policy
FI	digitaalinen kuilu	2016 trade
SV	digital klyfta	2021 international trade
		2026 consumption
		2031 marketing
		2036 distributive trades

Distribution – Alignment – EuroVoc and Agrovoc

<HTTP://PURL.ORG/NET/MEDIATYPES/APPLICATION/RDF+XML>

Distribution – Alignment – EuroVoc and Eclas

<HTTP://PURL.ORG/NET/MEDIATYPES/APPLICATION/RDF+XML>

Distribution – Alignment – EuroVoc and Gemet

<HTTP://PURL.ORG/NET/MEDIATYPES/APPLICATION/RDF+XML>



European Union Open Data Portal



Other standardization activities

- Participation in standardisation efforts in public procurement domain
 - Collaboration with UN/CEFACT and CEN BII for establishment of e-procurement standards

■ ELI (European Legislation Identifier)



The image shows two side-by-side screenshots. On the left is a screenshot of the Wikipedia page for "European Legislation Identifier". The page title is "European Legislation Identifier" and the main content discusses the "Common approach for persistent identifiers in European Legislation Identifier". It includes sections on "From Wikipedia", "The Europe", "Contents", and "Elements". On the right is a screenshot of the official ELI website. The header features the UNECE logo and the text "European Legislation Identifier". Below the header, there's a banner for "ISA Interoperability Solutions for European Public Administrations". The main content area on the right page discusses "Improving semantic interoperability in European eGovernment systems" and includes sections like "Project core data", "Search this page", and "Want to know more?". A small European Union flag graphic is visible in the bottom right corner.

Conclusion

- Open access to information resources (publications, datasets, ...)
- Promote access and reuse
- Improve interoperability
- IMMC/MDR: Framework for harmonisation and standardisation
- Commitment to ensure maintenance of reference data





Publications Office contact details/links

- Publications Office of the EU
<http://publications.europa.eu>
- Metadata Registry website
<http://publications.europa.eu/mdr>
- Metadata Registry e-mail address
OP-METADATA-REGISTRY@publications.europa.eu
- Publications Office datasets on the EU Open Data Portal
<http://open-data.europa.eu/en/data/publisher/publ>
- Metadata Registry on Joinup (ADMS descriptions)
<https://joinup.ec.europa.eu/catalogue/repository/metadata-registry>
- EuroVoc website
<http://eurovoc.europa.eu>
- EuroVoc e-mail address
eurovoc@publications.europa.eu
- EuroVoc on Joinup (ADMS descriptions)
https://joinup.ec.europa.eu/catalogue/asset_release/eurovoc





Relevant acronyms used

- [**ADMS**](#): Asset Description Metadata Schema
- [**DCAT**](#): Data Catalogue Vocabulary
- [**DCAT-AP**](#): DCAT application profile for data portals in Europe
- [**ECLI**](#): European Case Law Identifier
- [**ELI**](#): European Legislation Identifier
- [**EU ODP**](#): European Union Open Data Portal
- [**Formex**](#): Formalized Exchange of Electronic Publications
- [**IMMC**](#): Interinstitutional Metadata Maintenance Committee
- [**MDR**](#): Metadata Registry
- [**OWL**](#): Web Ontology Language
- [**RDF**](#): Resource Description Framework
- [**SKOS**](#): Simple Knowledge Organisation System
- [**VIAF**](#): Virtual International Authority File

