



Fourth Working Group webinar on the revision of GeoDCAT-AP

interoperable europe

innovation ∞ govtech ∞ community





Workshop practicalities

GeoDCAT-AP: DCAT-AP for geographical data

GeoDCAT-AP: ecosystem

Interoperability between specifications

(even across Standardisation Bodies)



GeoDCAT-AP 3.0.0 revision plan

GeoDCAT-AP Timeline



GeoDCAT-AP 3.0.0: revision plan

Revision on-going in https://github.com/SEMICeu/GeoDCAT-AP/issues

Working Group Webinar 2 - Concerning generic organisation & findability (12/03/2024)

- Datasets, Distributions and their relationships
- Categories (alignment with DCAT-AP 3.0): keywords, categories, themes

Working Group Webinar 3 – specific geo-aspects (23/04/2024)

- Geospatial coverage & resolution
- Guest speakers on existing implementation of GeoDCAT-AP

Working Group Webinar 4 – relationship with INSPIRE (today)

- Discussion on Codelists
- HVD and remaining issues
- GeoDCAT-AP related tools: XSLT

We are interested in which issues you are facing and we encourage you to post them as issues on the GeoDCAT-AP GitHub repository.

GeoDCAT-AP Issues

Currently 59 issues

- 34x applied in new draft
- 4x resolution provided
- 4x to be discussed today
- 2x closed (no feedback)
- 9x implementation evidence
- 3x postponed beyond 3.0.0
- 3x editorial



https://github.com/SEMICeu/GeoDCAT-AP/issues

Distributor agent role (<u>#81</u>)

Description

Some of the GeoDCAT-AP agent roles may not make sense for all DCAT entities: Dataset, Dataset Series, Data Service, Distribution.

In Flanders, *distributor* on ISO "dataset" scope code is mapped to geodcatap:distributor of dcat:Distribution instead of dcat:Dataset.

+custodian	geodcat:custodian	foaf:Agent	Party that accepts accountability and responsibility for the data and ensures appropriate care and maintenance of the resource [ISO-19115].	
+distributor	geodcat:distributor	foaf:Agent	Party who distributes the resource [ISO-19115].	0n
+originator	geodcat:originator	foaf:Agent	Party who created the resource [ISO-19115].	
+principal investigator	geodcat:principalInvestigator	foaf:Agent	Key party responsible for gathering information and conducting research [ISO-19115].	
+processor	geodcat:processor	foaf:Agent	Party who has processed the data in a manner such that the resource has been modified [ISO-19115].	
+resource provider	geodcat:resourceProvider	foaf:Agent	Party that supplies the resource [ISO-19115].	
+user	geodcat:user	foaf:Agent	Party who uses the resource [ISO-19115].	0n
	<> a (dcat:Dat	aset ;	

Usage note

Party that account accountability and responsibility for the

Range

Card

§ 4.12.3 Optional properties for Dataset

URI

Property

Proposition

- 1. Clarify meaning of the distributor role on dcat:Dataset, or
- 2. Move the distributor from dcat:Dataset to dcat:Distribution, i.e.
 - 1. Remove distributor from dcat:Dataset, and
 - 2. Map distributor on Datasets always to corresponding dcat:Distribution.

Revise usage of Licenses and AccessRights – HVD context (#113)

Description

GeoDCAT-AP 2.0.0 allows users to express a license document as a text. This is **not allowed** in the context of HVDs.

In HVDs, <u>licences need to be structured and machine</u> <u>readable</u>, i.e. identified by a dereferenceable URL, preferably from the <u>Licence EU NAL</u> or mapped to it.

Even besides HVDs, license documents should be properly structured documents, published somewhere, where they have a URL.

Therefore, a representation of a license document using a simple literal does not seem to be sufficient.

Should be like this:

[] dct:license <http://publications.europa.eu/resource/authority/licence/CC_BY_4_0> .

Examples of usage in the GeoDCAT-AP 2.0.0 seem more like Rights statements than actual Licences:

[] dct:license [a dct:LicenseDocument ; rdfs:label """

The dataset contains parts which are restricted
by the data providers and not to be made public.
For further information and specification regarding
the use limitations and constraints please consult
the file WISE_WFD_ReferenceSpatialDataSets_2020-04-02.pdf
which is provided together with the data.
"""@en];

Concept scheme			Go to asset list
Version: Concept scheme URI: Type of dataset:	20230927-0 http://publications.eu Name authority list	Dataset details Ithority/licence	
Scheme: Licence N	/		
able view List view	Tree view		
ilter by:	s	elect context	Select Collection
CC BY 3 0 NL	Netherlands	2007-02-23	permitting any commercial and non-commercial use as long as credit is given to the author f
<u>CC BY 4 0</u>	Creative Commons Attribution 4.0 International	2013-11-26	CC BY 4.0 lets others distribute, remix, tweak, and build upon the author's work, even comn credit the author for the original creation. This is the most accommodating of licences offere maximum dissemination and use of licenced materials.
<u>CC PDM 1 0</u>	Public Domain Mark 1.0	2010-10-01	Published by Creative Commons, Public Domain Mark (CC PDM 1.0) identifies a work as be restrictions under copyright law, including all related and neighboring rights. The user can co perform the work, even for commercial purposes, all without asking permission.
<u>CDDL 1 0</u>	Common Development and Distribution License 1.0	2004-01-24	CDDL-1.0 is a free software licence approved by the Open Source Initiative. A moderated (used by SUN, including explicit patent grants, it is similar to MPL and EPL. Compiled object under any licence, but the original source code (and modified derivatives) must be made av-

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Even besides HVDs, license documents should be properly structured documents, published somewhere, where they have a URL.

Therefore, a representation of a license document using a simple literal does not seem to be sufficient.

According to DCAT-AP 3.0, it should be using a codelist value like this:
[] dct:accessRights <http://publications.europa.eu/resource/authority/access-right/PUBLIC> .

If free-text, then it should be using dct:rights like this:

```
[] dct:rights [ a dct:RightsStatement ;
    dct:description """
    public access limited according to Article 13(1)(b)
```

```
of the INSPIRE Directive
```

```
"""@en ]
```

Example 41 uses dct: accessRights without the code list that should be used to represent Access rights in DCAT-AP. This seems incorrect and again is a more an example of dct:rights:

```
[] dct:accessRights [ a dct:RightsStatement ;
    rdfs:label """
    public access limited according to Article 13(1)(b)
of the INSPIRE Directive
    """@en ]
```

In DCAT-AP, codelist value is required:

Concept Access river Version: Concept sc Type of data Scheme:	<mark>ght</mark> heme l	2023 JRI: <u>http:/</u> Nam			pa.eu/resource	<u>/authority/access-rigt</u>
Table view	<u>List vie</u>	w <u>Tree vie</u>	w			
Filter by:				Sele	ect context	
Code	¢	Label	Va	lid since 💠	Valid until 🔅	Definition
	NTIAL	confidentia	I 20	21-03-17		Information that is public administration the context of busin
NON_PUB	LIC	non-public	20	13-01-01		Not publicly access contain sensitive o
NORMAL		normal	20	09-12-01	2022-03-16	Publicly accessible Committee, as the
PUBLIC		public	20	13-01-01		Publicly accessible long as anyone ca
RESTRICT	ED	restricted	20	13-01-01		Only available und resources shared they can be public
SENSITIVE	E	sensitive	20	20-03-18		Sensitive non-clas Commission or oth is not EU classified

Revise usage of Licenses and AccessRights – HVD context (#113)

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The dataset contains parts which are restricted by the data providers and not to be made public. For further information and specification regarding the use limitations and constraints please consult the file WISE_WFD_ReferenceSpatialDataSets_2020-04-02.pdf which is provided together with the data. """@en];

Example 41 uses dct: accessRights without the code list that should be used to represent Access rights in DCAT-AP.

This seems incorrect and again is a more an example of dct:rights:

```
[] dct:accessRights [ a dct:RightsStatement ;
    rdfs:label """
    public access limited according to Article 13(1)(b)
    of the INSPIRE Directive
        """@en ]
```

Proposition

- 1. Remove licence as text and allow licence usage only with licence IRIs, and
- 2. Change mappings of non-IRI accessRights statements to dct:RightsStatements using dct:rights.

Relax *rights* max cardinality (<u>#82</u>)

Description

In INSPIRE metadata, rights are expressed as multiple textual statements.

In DCAT-AP & GeoDCAT-AP, rights (on Catalogue and Distribution) have cardinality 0..1



Proposition

- 1. Relax rights max cardinality in both GeoDCAT-AP and DCAT-AP
- 2. In INSPIRE => GeoDCAT-AP mapping, merge multiple rights statements into one

Relation of spatial resolution on Dataset, Distribution and Data Service (<u>#100</u>)

Description

Spatial resolution – optional property on Dataset, Distribution, Data Service.

What are the relations of spatial resolution specifications on these classes?



Refers to the performed quality measurements.

In GeoDCAT-AP, this property is used to specify "spatial resolution", as defined in [INSPIRE-MD-REG], [ISO-19115], and [ISO-19115-1].

0..n

Proposition

- 1. For Distribution, spatial resolution [0..1] represents the spatial resolution of the described file.
- 2. For Data Service spatial resolution [0..n] describes the capabilities of the data service, i.e. in which spatial resolutions it can serve data.
- 3. For Dataset spatial resolution [0..1] describes the spatial resolution the data is managed in in the dataset, i.e. regardless of how it is distributed using distributions.
- 4. For Dataset Series unclear what spatial resolution of a dataset series means.



Resolved issues

Resolved issues

- 1. CRS support in GeoJSON (#6)
- 2. Required / Recommended properties of supporting classes (#109)



Closed issues

- Support 1-to-many mappings for responsible party roles (#39) 1.
- Relationships between GeoDCAT-AP and DCTERMS agent roles (#57) 2.





Codelists



Problem statement

Establishing a common *interpretation* for the sentence:

"The property MUST use as range values codes from {codelist} which are transferred from one specification to another."

Other qualifiers (MUST, IS RECOMMENDED, MAY) and cardinalities (0..N, 1..N, 0..1, 1..1)

Codelist Example

Example

ns:codelist1 a skos:ConceptScheme.
ns:codelist1 skos:prefLabel "Example Codelist1"@en.

codelist1:x2 a skos:Concept. codelist1:x2 skos:prefLabel "Code x2"@en. codelist1:x2 skos:inScheme ns:codelist1. codelist1:x2 skos:topConceptOf ns:codelist1.

	λ.	
$\langle \rangle$		European Commission

English 💵

European Commission > INSPIRE > INSPIRE registry > INSPIRE theme register

INSPIRE registry

INSPIRE theme register

URI	http://inspire.ec.europa.eu/theme						
Label	INSPIRE theme register						
Content summary	The INSPIRE theme register contains all spatial data themes, as defined in the Annexes of the INSPIRE Directive (Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)). The descriptions of the themes are based on version 3.0 of the "Definition of Annex Themes and Scope (D 2.3)" by the data specifications drafting team and subsequent updates by the INSPIRE Thematic Working Groups (TWGs).						
Register Manager	European Commission, Joint Research Centre						
Register Owner	European Union						
Control Body	Control body for the central INSPIRE registers and INSPIRE register federation						
Submitting Organization	Nominated submitting organisations for the central INSPIRE registers and INSPIRE register federation						
Contact Point	JRC INSPIRE Registry Team						
License	Europa Legal Notice						
Insert date	2013-03-25 14:14 PM CET						
Available formats:	[]XML Registry []XML ISO 19135 []RDF/XML []JSON []CSV []ATOM []ROR						

Available items

Show 10 v entries	Showing 1 to 10 of 35 entries	Filter:		
Label			▲ Status	0
Addresses			Valid	_
Administrative units			Valid	
Agricultural and aquaculture facilities	Valid			
Area management/restriction/regulation zones	Valid			
Atmospheric conditions		Valid		
Atmospheric Conditions and meteorological g	Invalid			
Bio-geographical regions	Valid			
Buildings	Valid			
Cadastral parcels	Valid			
Coordinate reference systems	Valid			

1 2 3 4 Next >

Search



Example

The property **MUST** use as range values codes from EU vocabularies Data theme.

Example 1

:d dcat:theme nal:AGRI.

Example 2

_:d dcat:theme inspire:au.

Example 3

_:d dcat:theme nal:AGRI.









Example

The property **MAY** use as range values codes from EU vocabularies Data theme.

Example 1

:d dcat:theme nal:AGRI.

Example 2

_:d dcat:theme inspire:au.

Example 3

_:d dcat:theme nal:AGRI.







Codelist Qualifier: possible outcome

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The property **MUST** use as range values codes from EU vocabularies Data theme.

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Codelist Qualifier: possible outcome

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The property MAY use as range values codes from EU vocabularies Data theme.

Example 1

_:d dcat:theme nal:AGRI.

Example 2

_:d dcat:theme inspire:au.

Example 3

_:d dcat:theme nal:AGRI.







SHACL shapes: as-is

```
:Codelist1Restriction

a sh:NodeShape ;

rdfs:comment "Codelist1 restriction" ;

sh:property [

sh:hasValue ns:codelist1;

sh:minCount 1 ;

sh:nodeKind sh:IRI ;

sh:path skos:inScheme

] .
```

:PropertyShape
a sh:NodeShape ;
sh:property [
 sh:node :CodelistRestriction ;
 sh:nodeKind sh:IRI ;
 sh:path dct:subject ;
 sh:severity sh:Violation
] ;
sh:targetClass dcat:Dataset.

In case of MANDATORY the severity is a 'Violation', in all other cases the severity is a 'Warning'.



Example scenario

- Publisher publishes **successfully** for System 1.
- Publisher gets request to publish on System 2.









Typical scenario

- Publisher publishes **successfully** for System 1.
- Publisher gets request to publish on System 2.
- Publisher tries with existing data on System 2 but fails.
- Publisher add extra value to satisfy System 2 but the publishing on **both** Systems **fails**.



 \rightarrow The codelist restriction is *not additive*.

Two interpretations for mandatory codelist

Interpretation 1: The value space is closed under the codelist. Interpretation 2: At least 1 value from the codelist.

Interpretation 1

- Cardinality and value space constraints are independent.
- Restricts the freedom of compatible (sub)profiles to reenforcing the cardinalities or further restricting the possible codelist values (e.g. to a single value).

Interpretation 2

- Cardinality and value space constraint are made dependent.
- Compatible (sub)profiles may freely add other codelist constraints.
- Cannot be used in case the property is optional (cardinality 0 means optional).

Application assessment

- Interpretation 1:
 - Conformant to the way literal value spaces are expressed.
 - Most naturally for programming languages and most software systems.
- Interpretation 2:
 - Of interest in cases where there is a need for aggregation (at the level of properties) in the specification.
Validation assessment

- Interpretation 1:
 - Existing SHACL shapes can be used as-is:
 - Validation is simple and direct.
 - As it is closing the value space, violations drive the feedback.
- Interpretation 2:
 - **Existing** SHACL shapes **cannot** be used as-is:
 - requires to define a filtering process as inherent part of the processing and conformance building Such filtering process is non-trivial to standardise and imposed in all implementations.
 - As it is not closing the value space, poor usages will be harder to detect.
 - Matching SHACL shapes can be designed.

Cross-profile assessment

• Interpretation 1 is more strict than Interpretation 2.

 e.g.: When profiles DCAT-AP use Interpretation 2 and GeoDCAT-AP uses Interpretation 1 then the usage in DCAT)AP is also Interpretation 1.

- As datasets are subject to multiple profiles, profiles influence each other.
 - e.g.: mobilityDCAT-AP and healthDCAT-AP are siblings, but may influence eachother because there are datasets that are expressed under both profiles.
- note that this kind of influence is not limited to codelist constraints but also for other constraints such as max-cardinality constraints
- Conclusion: coordination is required.

Proposal: make the interpretation explicit

- A) The property **MUST** use as range values codes from {codelist}
 - = interpretation 1: The value space is closed under the codelist (validation results: violations)
 All (sub)profiles must avoid conflicts by creating subproperties.



B) The property **MUST** have at least one value from {codelist}

- = interpretation 2: The value space is minimally constrained (validation results: warnings)
- All (sub)profiles must adopt this interpretation in case they want to restrict the value space.

C) The property **IS RECOMMENDED** to use as range values codes from {codelist}

= interpretation 1: The value space is closed under the codelist, but other values are tolerated (validation results: warnings)



= interpretation 1: The value space is closed under the codelist, but other values are accepted (no validation required)

XSLT and tooling

XSLT – topicCategory subproperty

<!- GeoDCAT-AP 2.0.0 output -->

<rdf:Description>

<dct:subject rdf:resource="http://inspire.ec.europa.eu/metadata-codelist/TopicCategory/Environment"/>
</rdf:Description>

<!- INSPIRE MD input from www.nationaalgeoregister.nl -->

<gmd:topicCategory>

<gmd:MD_TopicCategoryCode>Environment</gmd:MD_TopicCategoryCode>

</gmd:topicCategory>

<!- GeoDCAT-AP 3.0.0 output --> <rdf:Description>

<geodcatap:topicCategory rdf:resource="http://inspire.ec.europa.eu/metadata-codelist/TopicCategory/Environment"/>
</rdf:Description>

XSLT – referenceSystem subproperty



High-value datasets (HVDs)

HVD and GeoDCAT-AP

- 1. June 4th Webinar on HVD reporting by DG CNECT
- 2. April 25th meeting of Action 2.5 subgroup
 - Outcome 2 options of identifying HVDs
 - 1. Either adapt INSPIRE metadata to indicate HVDs, or
 - 2. Automatically map every dataset from the INSPIRE themes mentioned in HVD IR based on mapping to HVD Categories
 - Unclear what to do in XSLT SEMIC is awaiting resolution from the subgroup
 - Poll to be held on Friday, May 17th

HVD and GeoDCAT-AP – HVD categories

- 3. HVD categories <u>NAL</u> to be finer-grained
 - not only the 6 categories
 - June 2024 release of EU Vocabularies

2. EARTH OBSERVATION AND ENVIRONMENT

2.1. Datasets in scope

The earth observation and environmental category includes earth observated defined in Annexes I-III to Directive 2007/2/EC, and datasets produced or available up to the scale of 1:5 000 covering the entire Member State when

Furthermore, consistent with and without affecting the relevant access $r_{\rm f}$ Parliament and of the Council (¹⁴), and the environmental information list

Hydrography (I)				
Protected sites (I)				
Elevation (II)				
Geology (II)				
Land cover (II)				
Orthoimagery (II)				
Area management / restriction / regulation zones & reporting units (III				
Bio-geographical r	regions (III)			
Energy Resources	Energy Resources (III) Environmental monitoring Facilities (III)			
Environmental mo				
Habitats and bioto	pes (III)			
Land Use (III)				
Mineral Resources	, (III)			
Natural risk zones	(III)			
Oceanographic geographical features (III)				
Production and ind	dustrial facilities (III)			
Sea regions (III)				
Soil (III)				
Species distribution	on (III)			

1. GEOSPATIAL

1.1. Datasets in scope

The geospatial thematic category includes datasets within the scope of the INSPIRE data themes Administrative units, Geographical names, Addresses, Buildings and Cadastral parcels as defined in Annex I and Annex III to Directive 2007/2/EC of a Council (1). In addition, it includes Reference parcels and Agricultural parcels as defined in Regulation (EU) No 1306/2013 of the European Parliament and of the Council (2) and of Regulation (EU) No 1307/2013 of the European Parliament and of the scale indicated in the table below, but are available at higher spatial resolution(s) (5), the spatial resolution.

ANNEX

	Datasets	Administrative units	Geographical names	Addresses	Buildings	Cadastral parcels	Reference parcels
Gr	nularity	All levels of generalisation available with	N/A	N/A	All levels of generalisation available	All levels of generalisation available	A level of accuracy that is at least equivalent to that
		a granularity up to the scale of 1:5 000 .			with a granularity up to the scale of	with a granularity up to the scale of	of cartography at a scale of 1:10 000 and, as from
		From municipalities to countries;			1:5 000 .	1:5 000 .	2016, at a scale of 1:5 000 , as referred to in
		maritime units.					Article 70(1) of Regulation (EU) 1306/2013.

HVD and GeoDCAT-AP – XSLT and its limitations

ISO 19139 to GeoDCAT-AP XSLT will be revised, but it will not be enough to cover HVD needs

- 4. HVD requirement: Usage of / Mapping to Licence NAL
 - e.g. http://publications.europa.eu/resource/authority/licence/CC_BY_4_0
 - However, usage of licenses in INSPIRE is inconsistent, e.g. in NL:

```
<gmd:resourceConstraints>
                                                                  @prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
    <gmd:MD_LegalConstraints>
                                                                  @prefix dcat: <http://www.w3.org/ns/dcat#> .
        <gmd:accessConstraints>
                                                                  @prefix dcterms: <http://purl.org/dc/terms/> .
            <gmd:MD RestrictionCode</pre>
                                                                  @prefix geodcatap: <http://data.europa.eu/930/> .
codeList="http://www.isotc211.org/2005/resources/codeL
ist.xml#MD RestrictionCode"
                                                                  [] a dcat:DataService ;
codeListValue="otherRestrictions"/>
                                                                      geodcatap:resourceType <http://inspire.ec.europa.eu/metadata-codelist/ResourceType/service> ;
        </gmd:accessConstraints>
                                                                      dcterms:accessRights [
                                                      XSLT
        <gmd:otherConstraints>
                                                                          a dcterms:RightsStatement ;
            <gco:CharacterString>Geen
                                                                          dcterms:description "http://creativecommons.org/publicdomain/mark/1.0/deed.nl"@nl ;
beperkingen</gco:CharacterString>
                                                                      ].
        </gmd:otherConstraints>
        <gmd:otherConstraints>
            <gco:CharacterString>http://creativecommon
                                                                   1. Not recognized as Licence IRI
s.org/publicdomain/mark/1.0/deed.nl</gco:CharacterStri</pre>
ng>
                                                                    Unknown relation to CC0 in the EU NAL
        </gmd:otherConstraints>
    </gmd:MD_LegalConstraints>
</gmd:resourceConstraints>
```

HVD and GeoDCAT-AP – XSLT and its limitations

ISO 19139 to GeoDCAT-AP XSLT will be revised, but it will not be enough to cover HVD needs

- 5. Identifiers
 - Need to provide context
 - e.g. https://www.nationaalgeoregister.nl/geonetwork/srv/api/records/229a081d-5c6b-4181-8410-6f07d9b55437 instead of just the uuid
 - Make them **Persistent**

<gmd:fileIdentifier>

<gco:CharacterString>229a081d-5c6b-4181-8410-6f07d9b55437</gco:CharacterString>
</gmd:fileIdentifier>



@prefix dcat: <http://www.w3.org/ns/dcat#> .
@prefix dcterms: <http://purl.org/dc/terms/> .
@prefix geodcatap: <http://data.europa.eu/930/> .

[] a dcat:DataService ;

geodcatap:resourceType <http://inspire.ec.europa.eu/metadata-codelist/ResourceType/service> ;
dcterms:identifier "229a081d-5c6b-4181-8410-6f07d9b55437" .

HVD and GeoDCAT-AP – XSLT and its limitations

ISO 19139 to GeoDCAT-AP XSLT will be revised, but it will not be enough to cover HVD needs

- 6. Data Service simplified INSPIRE metadata no longer provides data services independently
 - Indistinguishable from other distributions
 - Metadata accessible only by dereferencing the endpoint URL XSLT does not do this
 - XSLT needs to be individually adapted here as well for HVD, where APIs are prominent
 - For HVD reporting, the output would have to be manually enhanced

XSLT summary



XSLT can be found and discussed on GitHub. <u>https://github.com/SEMICeu/iso-19139-to-dcat-ap</u>, dev branch



XSLT is being updated to GeoDCAT-AP 3.0.0



XSLT is limited in context of HVD reporting – needs to be adjusted by each publisher, e.g. for Licenses, Identifiers, DataServices

GeoDCAT-AP 3.0.0 overview of changes

High-level overview of changes in GeoDCAT-AP 3.0.0

1. New subproperties

- dcterms:conformsTo
 - geodcatap:serviceProtocol
 - geodcatap:referenceSystem
- dct:subject
 - geodcatap:topicCategory
- dct:type
 - geodcatap:serviceType
 - geodcatap:resourceType
 - geodcatap:serviceCategory

- 2. Introduction of DatasetSeries
 - Contains all properties of Dataset
 - Unclear what some of them mean for DatasetSeries
- 3. Clarification of usage notes, cardinalities
- 4. License/Rights mappings, label mappings
- 5. If DCAT-AP 3.0 already implemented, only minor effort required

Next steps

GeoDCAT-AP Timeline



Next steps



Please provide your additional feedback on GitHub. https://github.com/SEMICeu/GeoDCAT-AP/issues



A new editor's draft will be created at <u>https://semiceu.github.io/GeoDCAT-AP/drafts/latest/</u>



XSLT can be found and discussed on GitHub. <u>https://github.com/SEMICeu/iso-19139-to-dcat-ap</u>, dev branch

Thank you



inter erable europe

community innovation ∞ govtech ∞

Stay in touch



- (@InteroperableEU) / Twitter
- Interoperable Europe YouTube

Interoperable Europe | LinkedIn



DIGIT-INTEROPERABILITY@ec.europa.eu



Y

https://joinup.ec.europa.eu/collection/interoperableeurope/interoperable-europe