GeoDCAT Application Profile for Data Portals in Europe

WORKING GROUP

VIRTUAL MEETING 5

2015-09-15

Meeting Minutes

Date: 17/09/2015

GeoDCAT Application Profile – Working Group Virtual Meeting 4			
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Author	AFS	Meeting time	14:00 – 16:00
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DOCUMENTATION

http://joinup.ec.europa.eu/site/dcat_application_profile/GeoDCAT-AP/GeoDCAT-AP_2015-06-01_5th_WG_Draft/

Meeting page: https://joinup.ec.europa.eu/node/142898

ATTENDEES

Name	Abbreviation	Country	Organisation
Ana Fernández de Soria	AFS	EU	PwC EU Services
Andrea Perego	AP	EU	EC DG Joint Research Centre
Angelos Tzotsos	AT	GR	IMIS Athena Research Centre
Antonio Rotundo	AR	EU	Agenzia per l'Italia Digitale
Eliane Roos	ER	FR	French IGN
Hannes Reuter	HR	EU	GISCO Team at Eurostat
Jan Hjelmager	JH	DE	Danish Geodata Agency
Maik Riechert	MR	UK	University of Reading
Makx Dekkers	MD	NL	AMI Consult
Stepan Kafka	SK	CZ	Czech National INSPIRE Geoportal
Stijn Goedertier	SG	BE	PwC EU Services
Udo Einspanier	UE	DE	Conterra
Willem van Gemert	WvG	EU	Publications Office EU

AGENDA

Item	Subject
1.	Welcome, practical matters, approval of the [minutes](#) of the [previous meeting](#).
2.	Overview of comments received during the public review period.
3.	Feedback on testing the GeoDCAT-AP XSLT.
4.	Resolution of open issues
5.	Next steps
6.	Closure

1. Welcome, practical matters, approval of the <u>minutes</u> of the <u>previous meeting</u>

The participants were welcomed. New attendees who are not (yet) a member of the Working Group but gave feedback on the GeoDCAT-AP specs were invited to the call.

A round table of introductions took place:
- People joined during the public review:
  - **Eliane Roos** is working on the DG Region WG on metadata validation. She is also involved in the <u>ISO TC</u> on geographic information systems on metadata.
  - **Jan Hjelmager** works on standardisation on metadata in Denmark. He is active in the <u>ISO TC</u> metadata group together with Eliane.
  - **Maik Riechert** works in the University of Reading, which wants to use GeoDCAT in the <u>MELODIES project</u>.
- People from the Working Group:
  - **Angelos Tzotsos** works in the University of Athens with US <u>data.gov</u> and <u>geodata.gov.gr</u>.
  - **Antonio Rotundo** is working for an Italian agency for e-Government, i.e. AgID (Agenzia per l'Italia Digitale).
  - **Hannes Reuter**, working for Eurostat, part of the GISCO team coordinating GI in the EC.
  - **Stepan Kafka** is working on national profile for the Czech national Geoportal.
  - **Udo Einspanier** is working on the pan-European data portal (for the consortium, developing it).
  - **Willem van Gemert** works on metadata in the Publications Office: Named authority list.

AP explained that the main objective of the meeting is to have an overview of the comments and issues raised within the public review and try to close the most important issues opened during that period.

2. Overview of comments received during the public review period

A slide statistics on the number of comments received during the public review was shared. It is difficult to have an overview of all 31 issues. AP explained that some comments were overlapping and therefore gathered into related issues.

The issues raised within the public review are tracked in the <u>meeting page</u>. It is proposed to start the meeting reviewing those issues that require discussion from the Working Group.

3. Feedback on testing the GeoDCAT-AP XSLT

There was no time to discuss about this point of the Agenda.

4. Resolution of open issues

1) Code lists for geographic identifiers
The first issue topic to discuss with the WG is related to the use of code lists for geographic identifiers.

AP proposed to add the suggested controlled vocabularies *as examples* in the GeoDCAT-AP specs. For conformance to GeoDCAT-AP the use of the controlled vocabularies mentioned in the DCAT-AP is mandatory. However, nothing prevents the use of *additional* controlled vocabularies if they address specific needs. He also invites the working group to suggest other code lists if they want.

HR asked about the use of GeoDCAT-AP in the UN system. Code lists from the UN could be utilised.
ER pointed out that the ISO already proposes to use values for code lists. What should these values be mapped to?

AP explained that Udo and Stephan have provided mappings for controlled vocabularies which are implemented in the XSLT. In the transformation, the original keywords are always preserved and additionally, URIs to other well-known controlled vocabularies are used.

HR pointed out that EuroStat has not yet foreseen to mint a URI set for NUTS, but this could become the case in the future. WvG explained that they had started creating an alignment between the NUTS and the ISO administrative units, but the project has been put on hold as they are different concepts. ESTAT is the source for the NUTS, but they can assist with the creation of URIs for the NUTS. This is going to be discussed with the colleagues from ESTAT.

Decision: The following was decided by vote:
The suggested controlled vocabularies will be added *as examples* in the GeoDCAT-AP extended profile.

2) Modelling resource locators
This issue was raised by ER and the French IGN. See also the usage note "Use accessURL, and not downloadURL, when it is definitely not a download or when you are not sure whether it is."

They proposed to change the wording (function code not provided) in table 2/resource locator and put this line first in the list since the function code element is not explicitly asked by INSPIRE. Therefore, in most cases it might not be provided.

In addition, the mapping to be used in this case should be in first position in the list. Moreover the wording is not precise enough: it is not "missing value for function code", but "function code not provided".

MD opened a discussion about URLs. He asked whether the value provided for function code is a URL, as this is required if we want to use an RDF syntax binding with dcat:accessURL. AP confirmed that resource locator is a URL. SK commented that for services foaf:homepage, may be too limiting.

AP pointed out that the problem is that an RDF encoding for access to services does not exist. In addition, the original ISO19139 does not provide sufficient detail about the service: is it a SOAP Web service, WFS, WMS, or just a shape file, etc.

MR proposed to use some intelligence to derive the nature of service from the URL as part of the implementation. AP argued that this should not be part of the specification, but rather of the implementation.
JH concurred that to include intelligence in the specification may not be a good idea. He questioned what would happen the day there is a new type of service.

MR agreed, raising that his main concern was that foaf:homepage would not address a lot of needs for clients that need to consult a web service. It would have been nice to have this included.

AP concluded that at this point in time neither DCAT-AP nor GeoDCAT-AP are capable of providing a solution to this problem although there have been long discussions on this in the working group. MR added that no such encodings need to be built on implementation experiences.

AP proposed to reconsider the syntax bindings, checking up on the current work done in W3C to see if a new proposal can be made. However, it seems that the semantics has been correctly covered with dcat:accessURL.

MD proposed not to replace dcat:accessURL, but perhaps augment it with something that is more specific. For instance, to have a second property or a sub-property.

AP proposed to additionally include the function code as part of the extended GeoDCAT-AP Profile. dcat:Distribution dct:type
http://inspire.ec.europa.eu/metadata-codelist/FunctionCode/offlineAccess

MD pointed out a technical problem: dct:type cannot be directly used with a dcatDistribution as a subject.

Decision: The following was decided by vote:
The syntax bindings are going to be reconsidered, checking up on the current work done in W3C to see if a new proposal can be made. However, it seems that the semantics has been correctly covered with dcat:accessURL.

3) Modelling reference systems
The issue about recommendations against the use of dct:conformsTo to reference systems (spatial and temporal) was discussed.

AP explained that currently dct:conformsTo is proposed to be used as property to denote the coordinate reference system / temporal reference system. The problem is dct:conformsTo is also being used for other meanings, for example for encoding 'conformity' (the standard to which a dataset conforms to).

He added that it is known that other working groups, like the W3C Spatial Data on the Web WG are working on such properties. Therefore, it was proposed to use dct:conformsTo as a *provisional* solution, in anticipation of a solution from others.

ER asked whether the same dc_type mechanism could be used to point on a coordinate system register. AP explained that currently, dct:ConformsTo is being used for denoting the coordinate reference system, in combination with a URI minted by the EPSG.

JH added that there might be some help from ISO/TC211 regarding the terminology issue. A new work item proposal on this issue is most likely on the way through the system. However, it will also take some time before we have it stable and done.

MR proposed to ignore CRS for now and only define GeoDCAT-AP for standard CRS84/ISO time and solve it when another WG has found a solution. If no-one wants to use dct:conformsTo, what's the use of defining it now? MD added that it is proposes to indicate that the URIs denoting the coordinate reference system are of a class :ReferenceSystem.

HR pointed out that if EPSG is referenced, it would be necessary to indicate which version/release of EPSG is used. They are slightly different. For instance, an EPSG code from 3035 from 2000 and 2008 might be slightly different.

MR opined that the W3C SDW WG will not mint a property for coordinate reference system shortly. It is even less likely that that property will be defined as a subclass of dct:conformsTo.

AP enlightened that the URIs used for INSPIRE metadata already include version metadata. The registry maintained by the OGC is the one being used, which returns all information about the coordinate reference systems in GML.

Decision: The following was decided by vote:
To indicate that the URIs denoting the coordinate reference system are of a class ReferenceSystem.

4) Next steps

AP informed that proposals for the issues will be provided.

In addition, the instructions to subscribe to the mailing list will be sent to the new people.

5) Closure

AP concluded the meeting stating that the most important issues have been addressed. Other issues will be discussed via the mailing list. The WG agreed with this way of working.

The new attendees were invited to subscribe to the mailing list and let AP know whether they also want to become WG members:
http://joinup.ec.europa.eu/mailman/listinfo/dcat_application_profile-geo

AP thanked the WG for the valuable input provided.

ACTIONS

Action	Owner	Date
Proposals for the issues will be provided.	Editors	2015-09-30
The instructions to subscribe to the mailing list will be sent to the new people.	Editors	2015-09-30

SUMMARY OF DECISIONS TAKEN

Decision	Owner	Date
The suggested controlled vocabularies will be added as examples in the GeoDCAT-AP specs.	WG Members	2015-09-15
The syntax bindings are going to be reconsidered, checking up on the current work done in W3C to see if a new proposal can be made. However, it seems that the semantics has been correctly covered with dcat:accessURL.	WG Members	2015-09-15
To indicate that the URIs denoting the coordinate reference system are of a class ReferenceSystem.	WG Members	2015-09-15
Other issues not discussed during the meeting will be discussed via the mailing list.	WG Members	2015-09-15

CHAT TRANSCRIPT FROM GEODCAT-AP

Stijn Goedertier - PwC: The agenda of today's call is on https://joinup.ec.europa.eu/node/142898
Stijn Goedertier - PwC: AGENDA 1: Welcome
Stijn Goedertier - PwC: Eliane Roos (IGN) introduces herself. She is working on the DG Regio WG on metadata validation... and involved in the ISO TC on geographic information systems on metadata.
Stijn Goedertier - PwC: Jan Hjelmager: I work on standardisation on metadata in Denmark... Like Eliane, I am also active in the ISO TC metadata group.
Stijn Goedertier - PwC: Maik: (University of Reading) We want to use GeoDCAT in the melodies project.

Stijn Goedertier - PwC: Angles: University Athens: working with US data.gov and data.gov.gr...

Angelos Tzotsos: geodata.gov.gr

Stijn Goedertier - PwC: Antonio: working for AGID - Italian agency for e-government

Hannes Reuter: Hannes Reuter - working for ESTAT

Hannes Reuter: sorry no mic

Hannes Reuter: GISCO team coordinating GI in the EC

Stijn Goedertier - PwC: Stephan Kafka: working for Czech national Geoportal... working on national profile

Stijn Goedertier - PwC: Udo Einspannier: working on the pan-european data portal (for the consortium developing it)

Stijn Goedertier - PwC: Willem Van Gemert: working on metadata in the Publications Office: Named authority list

Andrea Perego (JRC): Topic: Overview of comments received during the public review period

Stijn Goedertier - PwC: AGENDA 2 overview of the comments received

Stijn Goedertier - PwC: AGENDA 4 Resolution of open issues

Stijn Goedertier - PwC: (see https://joinup.ec.europa.eu/node/142898 for the list of issues)

Andrea Perego (JRC): q]

Andrea Perego (JRC): q+

Andrea Perego (JRC): Topic: Issues

Andrea Perego (JRC): Issue: Code lists for geo identifiers

Jan Hjelmager: Will you show it on the screen?

Ana Fdez de Soria: https://joinup.ec.europa.eu/node/145153/

Ana Fdez de Soria: and related issues

Hannes Reuter: so we can use also geoDCAT-AP in th UN systems. - correct ?

Hannes Reuter: codelists from the UN ?

Stijn Goedertier - PwC: (for the minutes: Andrea Perego: we propose to add the suggested controlled vocabularies as examples in the specs. The only thing that we require for alignment with GeoDCAT-AP is to also use the controlled vocabularies mentioned in the DCAT applicaton profile)

Hannes Reuter: +1

Willem van Gemert (OP): +1

Antonio Rotundo (IT): I agree with the proposal

Stijn Goedertier - PwC: (Andrea Perego: invites the working group to suggest other code lists if they want...)

Angelos Tzotsos: +1

Udo Einspanier: +1

Makx Dekkers: +1

Jan Hjelmager: +1

Stepan Kafka: yes

Stepan Kafka: +1

eliane roos: agree, but how will you made the mapping from the ISO 19115 codelist and the one from GeoDCAT?

Stepan Kafka: What EURSTAT NUTS ?

Stijn Goedertier - PwC: Eliane Roos: The ISO already proposes to use values for code lists. What should these values be mapped to?

Willem van Gemert (OP): To my knowledge the NUTS does not exist as URIs

Stijn Goedertier - PwC: (Andrea Perego: Udo and Stephan have provided mappings for controlled vocabularies... that are implemented in the XSLT. In the

transformation, the original keywords are always preserved... but additionally, URIs to other well ll known controlled vocabuliaries are used)

Stijn Goedertier - PwC: Hans Reuters: EuroStat has not yet foreseen to mint a URI set for NUTs., but this could become the case in the future...

Willem van Gemert (OP): We had started creating an alignment between the NUTS and the ISO administrative units, but as they are differents concepts we have put the project on a hold. ESTAT is the source for the NUTS, but we can assist with the creation of URIs for the NUTS. To be discussed with the colleagues from ESTAT.

Stepan Kafka: ok

Stijn Goedertier - PwC: TOPIC: resource locator

Andrea Perego (JRC): Issue: Resource locators

Stijn Goedertier - PwC: (see issue raised by Eliane Roos: https://joinup.ec.europa.eu/node/145675/)

Stijn Goedertier - PwC: See also the usage note on http://www.w3.org/TR/vocab-dcat/ "Use accessURL, and not downloadURL, when it is definitely not a download or when you are not sure whether it is. "

Makx Dekkers: q+

Stijn Goedertier - PwC: Makx Dekkers: an accessURL must be a URL. Is it a URL?

Maik Riechert 2: I think it's fine, the main problem is to differentiate the subtypes (API etc.)

Stijn Goedertier - PwC: (Andrea Perego: I confirm resource locator is a URL...)

Stijn Goedertier - PwC: (Stefan Kafka: for services foaf:homepage may be too limiting...)

Maik Riechert 2: Why not fetch the URL for transformation and inspect the type to get a better mapping

Stijn Goedertier - PwC: (Andrea Perego: the problem is that an RDF encoding for access to services does not exist... also the original ISO19139 does not provide sufficient detail about the service: is it a SOAP Web service, WFS, WMS, or just a shape file, etc...)

Udo Einspanier: +1 to Andrea, it is an implementation issue

Stijn Goedertier - PwC: (Andrea Perego: using some intelligence to derive the nature of service from the URL could be part of the implementation... but should not be part of the specification, in my view).

Jan Hjelmager: To include intelligence in the implementation is a dangerous way to enter. What will happen the day we have a new version of the system. Then we have to go through the whole system to find where we have done these thing

Stijn Goedertier - PwC: Maik Riechert: OK, I agree. My main concern was that foaf:hompage would not address a lot iof needs for clients needing to consult a web service. It would have been nice to have this included.

Stijn Goedertier - PwC: (Andrea Perego: we had long discussions on this in the working group... at this point in time neither DCAT-AP nor GeoDCAT-AP are capable of providing a solution to this problem...)

Stijn Goedertier - PwC: (Makx Dekkers: no such encodings need to be built on implementation experiences... We are not getting to a solutoin on this point.)

eliane roos: ok

Makx Dekkers: q+

Antonio Rotundo (IT): ok

Stepan Kafka: +1

Jan Hjelmager: ok

Hannes Reuter: +1

Stijn Goedertier - PwC: (Andrea Perego: PROPOSAL: we will reconsider the syntax bindings, checking up on current work done in W3C to see if we can make a new

proposal. However, it seems that we have correcntly covvered the semantic with dcat:accessURL).

Udo Einspanier: +1

Maik Riechert 2: +1

Angelos Tzotsos: +1

Stijn Goedertier - PwC: (Makx Dekkers: I propose not to replace dcat:accessURL, but perhaps augment it with something that is more specific... For example to have a second property or a sub-property)

Stepan Kafka: https://github.com/OSGeo/Cat-Interop/blob/master/LinkPropertyLookupTable.csv

Stepan Kafka: do you think this one ?

Stijn Goedertier - PwC: (Andrea Perego: this makes me think of another solution. We could additionally include the function code as part of the extended GeoDCAT-AP Profile)

Andrea Perego (JRC): dcat:Distribution dct:type http://inspire.ec.europa.eu/metadata-codelist/FunctionCode/offlineAccess

Maik Riechert 2: I think using dct:type at all is a good idea

Makx Dekkers: URL does not work

Makx Dekkers: q+

Stijn Goedertier - PwC: (Makx Dekkers: points out a technical problem... dct:type cannot be directly used with a dcatDistribution as a subject...)

Maik Riechert 2: Isn't there only one accessURL anyway per distribution??

Maik Riechert 2: +q

Stepan Kafka: +q

Maik Riechert 2: ok, agreed, but if multiple URLs are used then should describe the same thing

Maik Riechert 2: they

Makx Dekkers: Ys, Maik

Makx Dekkers: Yes, Maik, all pointing to the same file

Maik Riechert 2: for me, it doesn't make sense for data-URLs, like direct downloads or APIs, really just for actual websites possibly

Maik Riechert 2: like you say with different languages for example

Stijn Goedertier - PwC: TOPIC: (spatial / temporal) reference systems

Stijn Goedertier - PwC: (see issue: https://joinup.ec.europa.eu/node/144711/)

Stijn Goedertier - PwC: (Andrea Perego: currently we propose to use dct:conformsTo as property to denote the coordinate reference system / temporal reference system. The problem is that we also use dct:conformsTo for other meanings)...

Stijn Goedertier - PwC: (Andrea Perego: We also know that other working gorups, like the W3C Spatial Data on the Web WG is working on such properties. Therefore, we proposed to use dct:conformsTo as a provisional solution... in anticipation of a solutoin from others).

eliane roos: could you use the same dc_type mechanism to point on a coordinate system register?

Makx Dekkers: q+

eliane roos: ok

Makx Dekkers: q-

Makx Dekkers: q+

Stijn Goedertier - PwC: (andrea perego: currently we use dct:ConformsTo in combination with a URI minted by the EPSG for denoting the coordinate reference system)

Jan Hjelmager: Regarding the terminology issue, there might some help from ISO/TC211. A new work item proposal on this issue is most likely on the way through the system. However, it will also take some time before we have the stabil and done

Stijn Goedertier - PwC: <http://www.opengis.net/def/crs/EPSG/0/31370>

Stijn Goedertier - PwC: (good old Belgian Lambert 72)

Andrea Perego (JRC): dcat:Dataset dct:conformsTo <http://www.opengis.net/def/crs/EPSG/0/5711>

Andrea Perego (JRC): <http://www.opengis.net/def/crs/EPSG/0/5711> dct:type a:ReferenceSystem

Andrea Perego (JRC): <http://www.opengis.net/def/crs/EPSG/0/5711> rdf:type a:ReferenceSystem

Antonio Rotundo (IT): I have to leave you due to another work meeting in AgID. I apologize for that

Maik Riechert 2: Would it be ok to just ignore CRS for now and only define GeoDCAT-AP for standard CRS84/ISO time and solve it when another WG has found a solution? If noone wants to use conformsTo, what's the use of defining it now?

Stijn Goedertier - PwC: (Makx Dekkers: I see, you propose to indicate that the URIs denoting the coordinate reference system are of a class :ReferenceSystem)

Stijn Goedertier - PwC: @Antonio: Thanks for participating.

Antonio Rotundo (IT): Bye everybody

Jan Hjelmager: Fine with me

Makx Dekkers: +1

Maik Riechert 2: -0.5

Stijn Goedertier - PwC: +1 not to mint a new property... but a new class

Stepan Kafka: +1

Udo Einspanier: +1

Angelos Tzotsos: +1

Hannes Reuter: +1

eliane roos: +1

Hannes Reuter: but if we reference EPSG we would need to indicate which version/release of EPSG is used. They are sligthly differnet

Stijn Goedertier - PwC: Maik Riechert: I think that the W3C SDW WG will not mint a property for coordinate reference system shortly... It is even less likely that that property will be defined as a subclass of dct:conformsTo...

Hannes Reuter: an EPSG code from 3035 from 2000 and 2008 might be slighly different.

Stijn Goedertier - PwC: (Andrea Perego: the URIs used for INSPIRE metadata already include version metadata. We are useing the registry maintained by the OGC. The registry returns all information about the coordinate reference systems in GML).

Hannes Reuter: ok, will provide further documentatoin offline

Makx Dekkers: +1

Maik Riechert 2: +1

Udo Einspanier: +1

Angelos Tzotsos: +1

Hannes Reuter: +1

Willem van Gemert (OP): +1

Stepan Kafka: +1

Jan Hjelmager: q1

Stijn Goedertier - PwC: Andrea Perego: concludes the meeting stating that the most improtant issues have been addressed. Other issues will be disucsssed via the mailing list. Thje working group agrees with this way of working.

Stijn Goedertier - PwC: @JAn: you can subscribe here: http://joinup.ec.europa.eu/mailman/listinfo/dcat_application_profile-geo
Stepan Kafka: bye
Udo Einspanier: bye
Angelos Tzotsos: thank you very much, bye
Maik Riechert 2: byebye
Hannes Reuter: bye
Willem van Gemert (OP): Thanks and bye!
Jan Hjelmager: bye
Makx Dekkers: bye
Maik Riechert 2: thanks
eliane roos: bye
Stijn Goedertier - PwC: Thank you everyone.
Ana Fdez de Soria: thanks, bye
Stijn Goedertier - PwC: Thank you Andra, great work.
Andrea Perego (JRC): Thanks