



**GeoDCAT Application Profile for Data Portals in
Europe**

WORKING GROUP

VIRTUAL MEETING 4

2015-05-20

Meeting Minutes



GeoDCAT Application Profile – Working Group Virtual Meeting 4

Venue	Virtual Meeting	Meeting date	2015-05-20
Author	AFS	Meeting time	14:00 – 16:00
Reviewed by	SG, AP	Issue date	2015-05-22
Status	for review	Version	0.03

DOCUMENTATION

http://joinup.ec.europa.eu/site/dcat_application_profile/GeoDCAT-AP/GeoDCAT-AP_2015-05-20_4th_WG_Virtual_Meeting/

Meeting page: <https://joinup.ec.europa.eu/node/142881>

ATTENDEES

Name	Abbreviation	Country	Organisation
Ana Fernández de Soria	AFS	EU	PwC EU Services
Anders Friis-Christensen	AF	EU	EC DG Joint Research Centre
Angelos Tzotsos	AT	GR	IMIS Athena Research Centre
Andrea Perego	AP	EU	EC DG Joint Research Centre
Hans Overbeek	HO	NL	KOOP
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.	Planning the next WG calls and public review.
3.	Prioritisation of metadata elements to be discussed.
4.	Outstanding issues on GeoDCAT-AP Core syntax bindings. Resolution to the following outstanding issues is to be discussed: <ul style="list-style-type: none">• 141755 - How to encode or represent a geographic bounding box or geometry• 142997 - GeoDCAT-AP - Mapping geographic identifiers for spatial coverage
5.	Discuss the bindings for GeoDCAT-AP Extended: <ul style="list-style-type: none">• 141756 - How to express the different conformity degrees supported in ISO 19115 / INSPIRE• 142454 - How to encode metadata elements on data quality• 142452 - How to encode spatial resolution, coordinate reference system, and temporal reference system in RDF• 142482 - How to encode representation type
6.	AOB
7.	Closing and next steps

DISCUSSION AND DECISIONS

1. Welcome, practical matters, approval of the [minutes of the previous meeting](#)

The participants were welcomed.

No comments were made by the WG Members on the [minutes of the previous meeting](#). The minutes were approved by vote.

AP explained that the main objective of the meeting is to try to close opened issues, or to identify them as future work.

He also reminded that there will be one more call next week, on 28th of May, to finalise matters and prepare the call for review. The public review of the draft specification is expected to be held in June.

2. Planning the next WG calls and public review

1) Public review

By the end of the week, a new version of the specifications will be sent for the public review.

AP explained that the public review period will last one month. After that period, one or two calls, depending on the comments and feedback given during the public review period, will be held.

AP invited the WG members to suggest a number of channels (e.g. mailing lists, contact persons) to use for communicating the 'call for review'.

HO said that the audience for the GeoDCAT-AP is relatively small. There are only a few people that are specialised in this field. He suggested that all WG members should personally contact the responsible from the national geo-register to review the draft.

AT recommended to receive comments from OGC and OSGeo. Furthermore, the W3C Data on the Web (best practices) Working Group and the W3C/OGC Spatial data Web WG are relevant to contact.

The editors will create a Doodle poll to allow the Working Group voting the call day after the public review period.

PwC will help prepare the public review period, contact persons and message to announce the call for public review.

2) XSLT used to convert ISO 19139 into GeoDCAT-AP

AP informed that he is updating the [XSLT](#). This could also be sent for public review, along with the specification. In addition, AP explained that the XSLT could also be implemented on a CSW endpoint, to serve metadata as GeoDCAT-AP RDF.

It would be interesting if CSW owners would be willing to implement such an interface.

- AT promised that the XSLT could be directly used on the CSW of his organisation. Also it would be interesting to contact OSGeo to find out whether they want to include the XSLT into their [pycsw](#) implementation, i.e. the reference implementation of OGC CSW 2.0.2.
 - AP agreed that this testing would be very helpful.
- HO explained that the Netherlands would be happy to test whether the XSLT could be used to convert descriptive metadata from the national geo-register into GeoDCAT-AP and import that into data.overheid.nl.
- UE explained that they are using the XSLT for verifying their transformation. In addition, he pointed out that it is very helpful for them to have this reference implementation.

3. Prioritisation of metadata elements to be discussed

AP explained that the specification has two levels GeoDCAT-AP Core and GeoDCAT-AP Extended. There are only two issues to be closed in order to finish with the GeoDCAT-AP Core.

4. Outstanding issues on GeoDCAT-AP Core syntax bindings

During the meeting the following syntax bindings were discussed, following the order in the meeting agenda. The [4th WG draft specification was used as a reference](#).

1) Geographic bounding box

AP introduced the opened [issue](#) on how to represent or encode a geographic bounding box or geometry. This issue was discussed via email during the previous days of the meeting. The relevant emails can be found below:

- [Initial email of the discussion](#)
- [Proposal of first four options \(A-D\)](#)
- [Proposal of final option \(E\)](#)

AP made the following [proposal](#): Geometries can be provided in any, and possibly multiple, encodings, but at least one of the following must be made available: WKT or GML.

AP explained that the proposal was already implemented in the [XSLT](#), which provides encodings for WKT, GML, and GeoJSON.

AP pointed out that, following the GeoSPARQL specification, the proposal is to use CRS84 as default coordinate reference system, instead of EPSG:4326. Both refer to WGS84, but the difference is that CRS84 uses a longitude / latitude axis order,

whereas EPSG:4326 uses latitude / longitude. AP stressed that this will not prevent users to use coordinate reference systems different from CRS84.

Decision: The following was decided by vote:

Geometries can be provided in any, and possibly multiple, encodings, but at least one of the following must be made available: WKT or GML. The default coordinate reference system will be CRS84.

2) Geographical identifier

AP explained that the ISO19115 Core also allows using a geographical identifier, i.e. a geo-name, to denote spatial coverage. The following issue was opened for this: [142997 - GeoDCAT-AP - Mapping geographic identifiers for spatial coverage.](#)

AP detailed that the [proposal](#) for encoding ISO19115 Geographic Identifier is to use `rdfs:seeAlso`, as also suggested in the Core Location Vocabulary (LOCN), with a URI: `< dct:spatial rdf:resource="URI"/ >`.

AP pointed out that it is not necessary to use URIs to encode Geographic identifiers.

- HO stressed to be strongly in favour of using URIs rather than blank notes. This should be encouraged.

UE emphasised that the revised DCAT-AP Draft 3 is proposing controlled vocabularies such as GeoNames.org, the places Named Authority List, etc.

Decision: The following was decided by vote:

The proposed syntax binding for geographical identifier, with the change that http URIs, rather than blank notes, are used in the example is accepted. A note on URIs should be added.

5. Discuss the bindings for GeoDCAT-AP Extended

1) Representation type

AP explained the [issue](#) opened on how to encode representation type.

AP proposed to use [adms:representationTechnique](#). For the controlled vocabulary, the INSPIRE registry will mint a URI set for the codes corresponding to the ISO19139 standard (vector, grid, text, video...), e.g. <http://inspire.ec.europa.eu/metadata-codelist/SpatialRepresentationType/vector>.

Decision: The following was decided by vote:

The proposed syntax binding for representation technique is accepted.

2) Spatial resolution, coordinate reference system and temporal reference system

AP started explaining the [issue](#) about how to encode spatial resolution, coordinate reference system and temporal reference system in RDF.

So far, no suitable candidates have been identified in existing RDF vocabularies to model this information. AP also mentioned that the joint W3C/OGC Spatial Data on the Web Working Group is going to address these issues, but they are not going to

deliver the results in time for the GeoDCAT-AP deadlines. Consequently, the goal of the GeoDCAT-AP WG could be to identify a provisional solution that can be revised based on future standard vocabularies.

- Spatial resolution and reference system

AP explained that the proposed syntax binding is to use `dct:conformsTo` to specify spatial and temporal reference systems, and to represent them as `skos:Concepts`. The EPSG register to coordinate reference systems is providing URIs that could be used.

AT provided what is accepted by [geoportal](http://geoportal.fr).

```
<gmd:referenceSystemInfo>
  <gmd:MD_ReferenceSystem>
    <gmd:referenceSystemIdentifier>
      <gmd:RS_Identifier>
        <gmd:code>
          <gco:CharacterString>2100</gco:CharacterString>
        </gmd:code>
        <gmd:codeSpace>
          <gco:CharacterString>urn:ogc:def:crs:EPSG</gco:CharacterString>
        </gmd:codeSpace>
        <gmd:version>
          <gco:CharacterString>6.11.2</gco:CharacterString>
        </gmd:version>
      </gmd:RS_Identifier>
    </gmd:referenceSystemIdentifier>
  </gmd:MD_ReferenceSystem>
</gmd:referenceSystemInfo>
```

In addition, AT commented that ISO 19139 has a specific encoding for coordinate reference systems and does not rely on a generic SKOS.

AP explained that using URIs would avoid the need of including much additional metadata for coordinate reference systems.

AT agreed with the proposed syntax.

AP proposed to use `dct:conformsTo` for reference systems, but the endorsement of the DCAT-AP working group is needed.

Decision: The following was decided by vote:

The proposed syntax binding for the reference system is accepted.

- Temporal reference system

AP asked whether the WG has encountered any metadata on 'temporal reference system'. Neither UE nor AT have encountered this.

AP explained that most would use the 'Gregorian Calendar' but for compliance, a syntax binding must be included in the specs.

Furthermore, AP pointed out that he could not find any existing vocabulary that could be used to encode 'spatial resolution'. The W3C/OGC Spatial Data on the Web WG is working on representing spatial resolution, and the W3C Data on the

Web Best Practices WG is developing a vocabulary for describing data granularity. So, GeoDCAT-AP may propose a provisional solution that could be revised in the future based on the outcomes of these two WGs.

AP proposed to dump spatial resolution into a free text field not already used (e.g., `rdfs:comment`).

- SG expressed not being in favour of using `rdfs:comment` for spatial resolution. He explained that it is squeezing meaning into a very generic property that was not intended for this purpose. An alternative would be to mint our own property (because nothing can be used from existing vocabularies), or to wait until another standards body mints a property.
- HO explained that metadata on spatial resolution is not always very accurate, unless the metadata was curated by an expert. This metadata is often of less use. HO said that the question is whether we really want this kind of data to be really machine-readable. In some cases machine readability is important, e.g. showing samples of datasets in your catalogue.
- UE agreed to have a separated property for this.
- HO added that we should have a business case for this property. Knowing why this property is needed can help to decide on the syntax binding. He suggested to put effort into this only if there is a use case for exchanging this kind of information.

AP made a new proposal: to dump spatial resolution into a free text field not already used (e.g., `rdfs:comment`), and to show spatial resolution in a *human readable* way.

AT asked to be involved in the revision of the DCAT-AP, whether this proposal is the best and whether they could propose a property to be minted for this.

AP will prepare an e-mail for the DCAT-AP Working Group to further discuss encoding a property for 'spatial resolution'.

Decision: The following was decided by vote:

The proposal to dump spatial resolution into a free text `rdfs:comment`, and to show spatial resolution in a *human readable* way is accepted.

3) Conformity degree and data quality

AP explained the mapping table with syntax bindings based on EARL voc detailed in an opened [issue](#).

AP explained that data quality in INSPIRE and ISO19115 is encoded as a quality report, which is the result of a quality test of a given quality measure, according to an evaluation method with a quantitative result (a metric) or a conformance result (pass or fail).

In addition, AP pointed out that INSPIRE conformity metadata element is encoded using the DataQuality data structure in ISO19111/ ISO19139. The proposed syntax

binding for Data Quality is the W3C Evaluation and Reporting Language (EARL). EARL provides [TestMode](#), TestCriterion, TestResult, etc.

AP explained that there also is an [alternative](#) to use PROV for encoding conformance results, following feedback from the W3C Provenance working group.

AP stressed that there is a risk that the (future) work of other standards bodies on data quality may make the proposed syntax binding for GeoDCAT-AP outdated. For example, the W3C Data on the Web Best Practices WG is working on a Data Quality standard. To limit the impact, it may be better to only provide a partial mapping for Data Quality / Conformance.

Therefore, AP proposed to provide alignments only for conformance results.

AP continued explaining that modelling conformity (yes/no) could be modelled using dct:conformsTo (already part of GeoDCAT-AP Core). The property dct:conformsTo cannot be used to encode non-conformance, or not evaluated. Having a Core and Extended profile would give data to provide a choice.

AP asked the WG to decide whether the proposed syntax binding for conformity should use the Provenance Ontology or the EARL Vocabulary. Although it would increase complexity, AP personally believed that the Provenance Ontology is likely to be more used in other contexts for these purposes.

AP proposed to use the PROV ontology to represent conformance results.

Decision: The following was decided by vote:
The proposal to provide alignments only for conformance results is accepted.

Decision: The following was decided by vote:
The proposal to use the PROV ontology to represent conformance results is accepted.

6. AOB

There was no other business to talk discuss.

7. Closing and next steps

The [5th WG virtual meeting](#) will be held on the 29th of May. HO pointed out that he will not be able to attend the meeting.

WvG informed to be present in July and absent in August, as opposed to HO.

AP thanked the WG for the valuable input provided.

ACTIONS

Action	Owner	Date
PwC to help preparing the public review period, contact persons and message to announce the call for public review.	PwC	2015-05-30
To create a Doodle poll to allow the Working Group to find a suitable day to reconvene after the public review period.	Editors	2015-05-30
AP to prepare an e-mail for the DCAT-AP Working Group to further discuss encoding a property for 'spatial resolution'	AP	2015-05-22

SUMMARY OF DECISIONS TAKEN

Decision	Owner	Date
Geometries can be provided in any, and possibly multiple, encodings, but at least one of the following must be made available: WKT or GML	WG Members	2015-05-20
The proposed syntax binding for geographical identifier , with the change that http URIs, rather than blank notes, are used in the example is accepted. A note on URIs should be added.	WG Members	2015-05-20
The proposed syntax binding for representation technique is accepted.	WG Members	2015-05-20
The proposed syntax binding for the reference system is accepted.	WG Members	2015-05-20
The proposal to dump spatial resolution into a property with range literal not already used, like rdfs:comment, and to show spatial resolution in a human readable way is accepted.	WG Members	2015-05-20
The proposal to provide alignments only for conformance results (and not for other data quality elements) is accepted.	WG Members	2015-05-20
The proposal to use the PROV ontology to represent conformance results is accepted.	WG Members	2015-05-20

CHAT TRANSCRIPT FROM GEODCAT-AP

Stijn: Good afternoon, everybody. Thanks for joining the call.

Stijn: The agenda for today's call is on the meeting page: <https://joinup.ec.europa.eu/node/142881>

Stijn: SG asks whether the minutes of the previous meeting can be accepted.

Angelos Tzotsos: +1 to accept

Hans Overbeek (NL): +1 accepted

Udo Einspanier: +1

Stijn: Meeting minutes accepted

Stijn: thanks

Stijn: for the minutes: AP explains that the purpose of the meeting is to try to close open issues, or to identify them as future work. There will be one more call next week on 28 May to finalise matters. The public review of the draft **SPECIFICATION** is expected to be held in June.

Hans Overbeek (NL): Andrea's sound quality is not so good at the moment. Is it my phone?

Stijn: @Hans, no you are right, the sound quality for Andrea is not perfect.

Hans Overbeek (NL): Yes, better! :-)

Stijn: for the minutes: AP invites the WG members to suggest a number of channels to use for communicating the 'call for review'.

Stijn: for the minutes: AP also says that he is updating the XSLT used to convert ISO19139 into GeoDCAT-AP... this could also be sent for public review, along with the specification.

Angelos Tzotsos: I would recommend to receive comments from OGC and OSGeo

Stijn: for the minutes: HO says that the audience for the GeoDCAT-AP is quite small. There are only a few people that are specialised in this field. HO suggests that all WG members should personally contact the responsible from the national geo-register to review the draft.

Stijn: @Angelos: I agree. Also the W3C Data on the Web (best practices) Working Group and the W3C/OGC Spatial data Web WG are relevant to contact.

Stijn: for the minutes: AP explains that the XSLT could also be on a CSW server, to also serve metadata as GeoDCAT-AP RDF...

Stijn: for the minutes: AP says that it would be interesting if CSW owners would be willing to implement such an interface on their CSW.

Udo Einspanier: We are using the XSLT for verifying our transformation. It is very helpful to have this reference implementation.

Angelos Tzotsos: I will bring this to the attention of geodata.gov.gr and US data.gov that I am involved in

Stijn: for the minutes: HO explains that the Netherlands would be happy to test whether the XSLT could be used to convert descriptive metadata from the national geo-register into GeoDCAT-APa and import that into data.gov.nl.

Stijn: (correction data.gov.nl >> data.overheid.nl/)

Stijn: for the minutes: Angelos promises that the XSLT could be directly used on the CSW of his organisation. Also it would be interesting to contact OSGeo to find out whether they want to include the XSLT into their CSW implementation?

Stijn: for the minutes: AP agrees that this testing would be very helpful.

Angelos Tzotsos: @Stijn, it will be implemented in pycsw (reference implementation of OGC CSW 2.0.2)

Angelos Tzotsos: <http://pycsw.org/>

Stijn: for the minutes: TODO: PwC to prepare the public review period, contact persons, and message to announce the call for public review.

Stijn: @Angelos: thank you for clarifying that.

Angelos Tzotsos: you are welcome :)

Stijn: Start discussion on Geographic bounding box.

Stijn: issue: GeoDCAT-AP - How to represent or encode a geographic bounding box or geometry. <https://joinup.ec.europa.eu/node/141755>

Stijn: for the minutes: Following a vote, AP made a proposal http://joinup.ec.europa.eu/mailman/archives/dcat_application_profile-geo/2015-May/000066.html

Udo Einspanier: +1

Angelos Tzotsos: +1

Stijn: for the minutes: the following was decided by vote: 'E. Geometries can be provided in any, and possibly multiple, encodings, but at least one of the following must be made available:WKT, GML'

Stijn: for the minutes: AP explained that this was already implemented in the XSLT: <https://webgate.ec.europa.eu/CITnet/stash/projects/ODCKAN/repos/iso-19139-to-dcat-ap/>

Hans Overbeek (NL): +1

Stijn: Start discussion on geographical identifier.

Stijn: AP explains that the ISO19115 Core also allows using a geographical identifier (a geo-name) to denote spatial coverage

Andrea Perego (JRC) 2: Proposal for geo IDs: <https://joinup.ec.europa.eu/node/142997/>

Stijn: for the minutes: AP explains that the proposal for encoding ISO19115 Geographic Identifier, is to use rdfs:seeAlso, as also suggested in the Core Location Vocabulary (LOCN).

Stijn: for the minutes: AP explains that it is not necessary to use URIs to encode Geographic identifiers... As Udo Einspanier pointed out, the revised DCAT-AP Draft 3 is proposing controlled vocabularies such as GeoNames.org, the places Named Authority List, etc.

Andrea Perego (JRC) 2: With a URI: <dct:spatial rdf:resource="URI">

Willem van Gemert (OP): +1

Stijn: for the minutes: Hans Overbeek: I am strongly in favour of using URIs... rather than blank notes. This should be encouraged.

Willem van Gemert (OP): +1

Udo Einspanier: +1

Hans Overbeek (NL): +1

Angelos Tzotsos: +1

Stijn: Decision: it was decided by vote to accept the proposed syntax binding, with the change that http URIs (rather than blank notes) are used in the example. A note on URIs should be added.

Stijn: Start discussion spatial representation type.

Willem van Gemert (OP): Andrea, we cannot hear you...

Stijn: issue: 142482 - How to encode representation type <https://joinup.ec.europa.eu/node/142482>

Willem van Gemert (OP): I have not been able to understand the last part

Andrea Perego (JRC) 2: adms:representationTechnique <<http://inspire.ec.europa.eu/metadata-codelist/SpatialRepresentationType/vector>>

Stijn: for the minutes: AP proposes to use adms:representationTechnique. For the controlled vocabulary, the INSPIRE registry will mint a URI set for the codes corresponding to the ISO19139 standard (vector, grid, text, video, ...).

Stijn: (see also: http://www.w3.org/TR/vocab-adms/#adms_representationTechnique)

Andrea Perego (JRC) 2: Back

Udo Einspanier: +1

Angelos Tzotsos: +1

Hans Overbeek (NL): +1

Willem van Gemert (OP): +1

Stijn: decision: it was decided by vote to accept the proposed syntax binding for representation technique.

Stijn: Start discussion on issue: 142452 - How to encode spatial resolution, coordinate reference system, and temporal reference system in RDF.

Stijn: <https://joinup.ec.europa.eu/node/142452>

Stijn: AP explains that the proposed syntax binding is to use dct:conformsTo to specify spatial and temporal reference systems, and to represent them as skos:Concepts. The OGC register for coordinate reference systems is providing URIs that could be used.

Angelos Tzotsos: this is what geoportal accepts: <https://dpaste.de/ob4a>

```
<gmd:referenceSystemInfo>      <gmd:MD_ReferenceSystem>
<gmd:referenceSystemIdentifier>  <gmd:RS_Identifier>      <gmd:code>
<gco:CharacterString>2100</gco:CharacterString>          </gmd:code>
<gmd:codeSpace>
<gco:CharacterString>urn:ogc:def:crs:EPSG</gco:CharacterString>
</gmd:codeSpace>                <gmd:version>
<gco:CharacterString>6.11.2</gco:CharacterString>        </gmd:version>
</gmd:RS_Identifier>          </gmd:referenceSystemIdentifier>
</gmd:MD_ReferenceSystem>    </gmd:referenceSystemInfo>
```

Angelos Tzotsos: this is what geoportal accepts: <https://dpaste.de/ob4a>

```
<gmd:referenceSystemInfo>
  <gmd:MD_ReferenceSystem>
    <gmd:referenceSystemIdentifier>
      <gmd:RS_Identifier>
        <gmd:code>
          <gco:CharacterString>2100</gco:CharacterString>
        </gmd:code>
        <gmd:codeSpace>
          <gco:CharacterString>urn:ogc:def:crs:EPSG</gco:CharacterString>
        </gmd:codeSpace>
        <gmd:version>
          <gco:CharacterString>6.11.2</gco:CharacterString>
        </gmd:version>
      </gmd:RS_Identifier>
    </gmd:referenceSystemIdentifier>
  </gmd:MD_ReferenceSystem>
</gmd:referenceSystemInfo>
```

Stijn: for the minutes: Angelos made a comment that IS19139 has a specific encoding for coordinate reference systems and does not rely on a generic SKOS.

Stijn: for the minutes: AP explains that using URIs would avoid the need of including much additional metadata for coordinate reference systems.

Stijn: for the minutes: Angelos said to be fine with the proposed syntax

Andrea Perego (JRC) 2: Proposal: Use dct:conformsTo for reference systems, but we need the endorsement of the *DCAT-AP community

Udo Einspanier: +1

Angelos Tzotsos: +1

Hans Overbeek (NL): +1

Stijn: Decision

Stijn: Decison: accepted by vote.

Stijn: for the minutes: AP asks whether the WG has encountered any metadata on 'temporal reference system'.

Stijn: for the minutes: Udo confirms not to have encountered this.

Angelos Tzotsos: I have not encountered this either

Angelos Tzotsos: I will need to look it up

Stijn: for the minutes: AP explains that most would use the 'Gregorian Calendar'... but for compliance, a syntax binding must be included in the specs.

Stijn: for the minutes: AP explains that he could not find any existing vocabulary that could be used to encode 'spatial resolution'. He knows that the W3C/OGC Spatial Data on the Web is working on representing spatial granularity... but it may not be relevant.

Andrea Perego (JRC) 2: Proposal: Dump spatial resolution into a free text field not already used (e.g., rdfs:comment)

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Udo Einspanier: +1

Angelos Tzotsos: +1

Angelos Tzotsos: I usually get this kind of information in Lineage :)

Stijn: for the minutes: HO explains that metadata on spatial resolution is not always very accurate, unless the metadata was curated by an expert. This metadata is often of less use. HO said that the question is whether we really want this kind of data to be really machine-readable.

Udo Einspanier: Agree to have a separate property for this

Hans Overbeek (NL): In addition to the minutes: Yes, in some cases machine readability is important, e.g. showing samples of datasets in your catalog. catalogue.

Stijn: Thanks, Hans, we will add it.

Stijn: Regarding rdfs:comment for spatial resolution. I am not in favour of this. We are squeezing meaning into a very generic property that was not intended for this purpose.

Stijn: An alternative would be to mint our own property... (because nothing can be used from existing vocabularies)... or to wait until another standards body mints a property.

Stijn: for the minutes: HO: we should have a business case for this property. Knowing why this property is needed can help to decide on the syntax binding. We should put effort in this only if there is a use case for exchanging this kind of information.

Andrea Perego (JRC) 2: Proposal: Dump spatial resolution into a free text field not already used (e.g., rdfs:comment), and to show spatial resolution in a human readable way.

Udo Einspanier: +1

Stijn: For the minutes: AT: this proposal is the best, but could we be involved in the revision of the DCAT-AP? Could we propose a property to be minted for this?

Angelos Tzotsos: +1

Stijn: for the minutes: HO: we should have a business case for this property. Knowing why this property is needed can help to decide on the syntax binding. We should put effort in this only if there is a use case for exchanging this kind of information.

Andrea Perego (JRC) 2: Proposal: Dump spatial resolution into a free text field not already used (e.g., rdfs:comment), and to show spatial resolution in a human readable way.

Udo Einspanier: +1

Stijn: For the minutes: AT: this proposal is the best, but could we be involved in the revision of the DCAT-AP? Could we propose a property to be minted for this?

Angelos Tzotsos: +1

Stijn: for the minutes: TODO: Andrea Perego will prepare an e-mail for the DCAT-AP Working Group to further discuss encoding a property for 'spatial resolution'.

Stijn: Start discussion on conformity degree and data quality

Andrea Perego (JRC) 2: Mapping table: <https://joinup.ec.europa.eu/node/142454>

Stijn: Issue: 142454 - How to encode metadata elements on data quality
Stijn: for the minutes: AP explains that data quality in INSPIRE and ISO19115 is encoded as a quality report, which is the result of a quality test or a quality measure, according to an evaluation method with a quantitative result (a metric) or a conformance result (pass or fail).

Stijn: for the minutes: AP explains that INSPIRE conformity metadata element is encoded using the DataQuality data structure in ISO19111/ ISO19139

Stijn: for the minutes: AP explains that the proposed syntax binding for Data Quality is the W3C Evaluation and Reporting Language (EARL).

Stijn: for the minutes: AP explains that EARL provides TestMode, TestCriterion, TestResult, etc. <http://www.w3.org/TR/EARL10-Schema/#TestMode>

Andrea Perego (JRC) 2: Use PROV for conformance results>

Andrea Perego (JRC) 2: Use PROV for conformance results:
https://joinup.ec.europa.eu/asset/dcat_application_profile/issue/geodcat-ap-how-express-different-conformity-degrees-supported-i#comment-16777

Stijn: for the minutes: AP explains that there also is an alternative to use PROV for encoding conformance results... following feedback from the W3C Provenance working group.

Stijn: for the minutes: AP explains that there is a risk that the (future) work of other standards bodies on data quality may make the proposed syntax binding for GeoDCAT-AP outdated. For example, the W3C Data on the Web Best Practices WG is working on a Data Quality standard.

Stijn: for the minutes: AP explains that to limit the impact, it may be better to only provide a partial mapping for Data Quality / Conformance.

Andrea Perego (JRC) 2: Proposal: Provide alignments only for conformance results.

Udo Einspanier: +1

Angelos Tzotsos: +1

Hans Overbeek (NL): +1

Willem van Gemert (OP): +1

Stijn: for the minutes: AP explains that modelling conformity (yes/no) could be modelled using dct:conformsTo (already part of GeoDCAT-AP Core).

Stijn: for the minutes: AP explains that the property dct:conformsTo cannot be used to encode non-conformance, or not evaluated.

Stijn: for the minutes: AP explains that having a Core and Extended profile would give data providers a choice.

Stijn: for the minutes: AP asks the WG to decide whether the proposed syntax binding for conformity should use the Provenance Ontology or the EARL Vocabulary. He personally believes that the Provenance Ontology is likely to be more used in other contexts for these purposes.

Andrea Perego (JRC) 2: Proposal: Use the PROV ontology to represent conformance results.

Hans Overbeek (NL): +1

Willem van Gemert (OP): Agree + share your estimation

Udo Einspanier: +1

Angelos Tzotsos: +1 on PROV based on popularity

Stijn: decision proposal accepted by vote.

Stijn: @Angelos: Andrea provided an example here:
https://joinup.ec.europa.eu/asset/dcat_application_profile/issue/geodcat-ap-how-express-different-conformity-degrees-supported-i#comment-16777

Angelos Tzotsos: Yes, sorry, I got confused with open tabs in browser

Athanasios KARALOPOULOS: 5th WG Virtual Meeting:
<https://joinup.ec.europa.eu/node/142898>
Hans Overbeek (NL): I will not be able to join next week. But that's not a problem for me.
Stijn: The next WG meeting is on 28 May <https://joinup.ec.europa.eu/node/142898>
Willem van Gemert (OP): I'm here in July, absent in August
Angelos Tzotsos: thank you!
Hans Overbeek (NL): absent in July, present in august. Can ask NGR for replacement
Willem van Gemert (OP): Thank you Andrea + team! :-)
Stijn: for the minutes: AP thanks the WG for the valuable input provided.
Hans Overbeek (NL): + 1
Stijn: Many thanks everybody!