

4th WEBINAR

DCAT-AP major release

Thursday 26-09-2019

15:00-16:30 CEST (GMT+2)



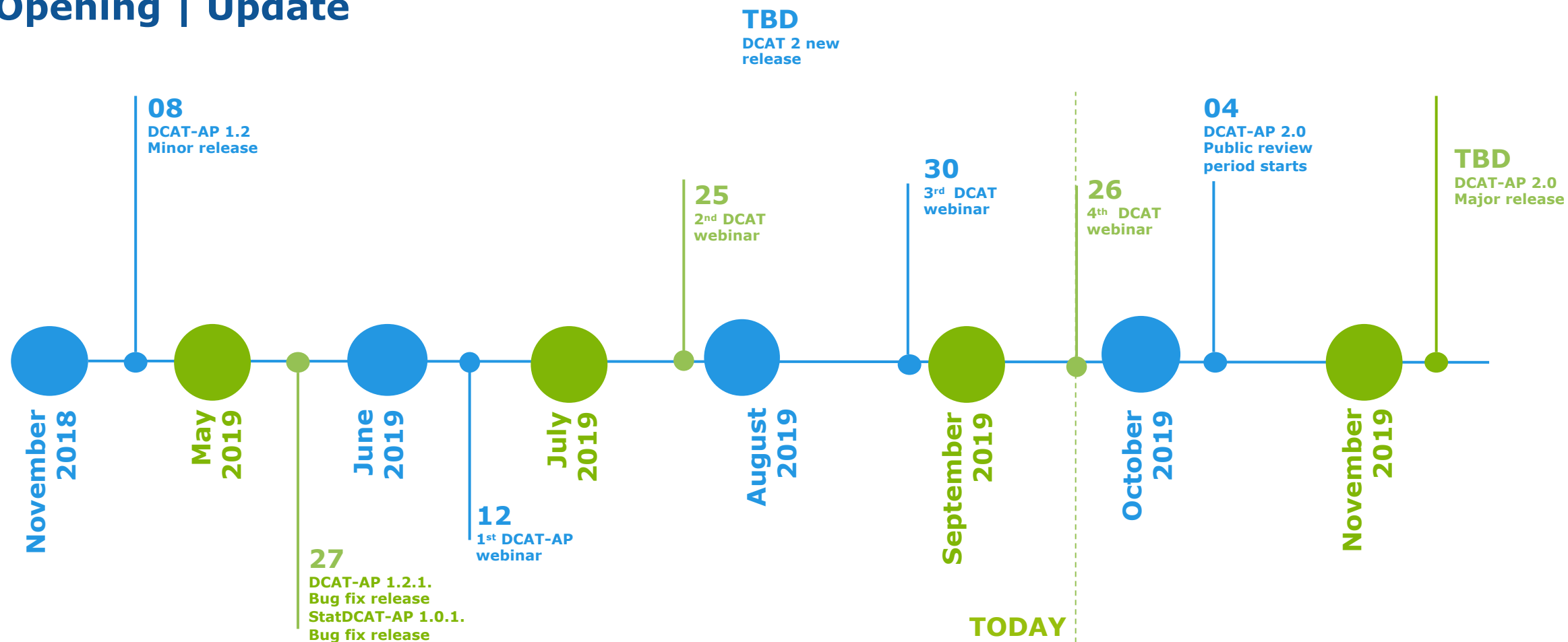
Organised by the SEMIC action of the ISA² programme

Agenda

- 1 Opening
- 2 Changes in DCAT-AP 2.0.0
- 3 Proposed changes from DCAT 2
- 3 Remaining Issues



Opening | Update





WHAT'S NEW IN DCAT-AP 2.0.0

What's new 1/3

The specification has undergone the following changes since DCAT-AP v1.2.1 release on 28.05.2019:

- Change of property optionality
 - `::dcat:Dataset`, `dct:temporal` → recommended [DCAT-AP-64](#)
 - `::dcat:Dataset` , `dct spatial` → recommended [DCAT-AP-9](#)
 - `::dcat:Catalog`, `dct:spatial` → recommended [DCAT-AP-3](#)
- [DCAT-AP-40](#): New property `dcatap:availability` added to `dcat:Distribution` as recommended.

Property	URI	Range	Usage note	Card.
availability (Distribution)	<code>dcatap:availability</code>	<code>skos:Concept</code>	This property indicates how long it is planned to keep the Distribution of the Dataset available. It MUST take one of the values : temporary, experimental, available, stable.	0..1

- [DCAT-AP-49](#): Change of property cardinality:
 - `dcat :accessURL`, Cardinality: 1..n → 1..1 (mandatory property)
 - `dcat :downloadURL`, Cardinality: 0..n → 0..1 (optional property)



What's new 2/3

- [DCAT-AP-57](#): Check existence of URIs
 - <http://labs.mondeca.com/vocab/voaf> has been updated to <http://purl.org/vocommons/voaf>
- [DCAT-AP-58](#): Cleanup unused prefixes. The following namespaces were not used and have been removed from the rdf/xml.
 - v=<http://www.w3.org/2006/vcard/ns#>,
 - xh= <http://www.w3.org/1999/xhtml>
 - sf =<http://sourceforge.net/api/sfelements.rdf>
- [DCAT-AP-55](#): in SHACL shapes `dct:language` was pointing to `skos:Concept`, has been corrected to point to `dct:LinguisticSystem`

What's new 3/3

- [DCAT-AP-45](#): The ADMS change type vocabulary <http://purl.org/adms/changetype/> (:created, :updated, :deleted) does not exist and has been removed from the specification.
- [DCAT-AP-53](#): This issue is related to [DCAT-AP-45](#), and cannot be solved directly.
- **New issue** [DCAT AP-86](#) (related to [DCAT-AP-45](#) and [DCAT-AP-53](#)): same property in two different classes, with different definitions.

Property	URI	Range	Usage note	Card.
status (Distribution)	adms:status	skos:Concept	This property refers to the maturity of the Distribution. It MUST take one of the values :Completed, :Deprecated, :Under development or :Withdrawn (http://purl.org/adms/status/)	0..1
change type (Catalog Record)	adms:status	skos:Concept	This property refers to the type of the latest revision of a Dataset's entry in the Catalogue. It MUST take one of the values :created, :updated or :deleted depending on whether this latest revision is a result of a creation, update or deletion.	0..1

Resolution: Either align definitions and use ADMS status vocabulary for both (if properties refer to same thing) or use different property for change type in Catalog Record (to be handled in next release cycle)



Open issues

- Issues [DCAT-AP-10](#), [DCAT-AP-39](#), [DCAT-AP-44](#), [DCAT-AP-52](#) are currently marked as **“won’t fix”**
- Issues related to DCAT 2
 - [DCAT-AP-35](#): support for data integration ([qualified-relationship](#), [qualified attribution](#))
 - [DCAT-AP-38](#): temporal granularity ([temporal properties](#))
 - [DCAT-AP-39](#): in Dataset add record maintainer ([qualified-relationship](#), [qualified attribution](#), [qualified-forms](#))
 - [DCAT-AP-42](#): in Dataset , add dct:contributor ([qualified-relationship](#), [qualified attribution](#), [qualified-forms](#))



PROPOSED CHANGES FROM DCAT 2



Proposed changes from DCAT 2-adding properties and classes (1/ 4)

- No need to add **dcat: Resouce** directly in DCAT-AP
- Add **dcat:DataService** as **optional** class with properties:
 - dct:title → **mandatory** [1, 1]
 - dcat:endpointURL → **mandatory** [1..n]
 - dcat:servesDataset → **recommended** [0..n]
 - dcat:endpointDescription → **recommended** [0..n]
 - dct:description → **optional** [0..n]
 - dct:licence → **optional** [0..1]
 - dct:accessRights → **optional** [0..1]
- New properties for class **dcat:Catalog**
 - dcat:service → **optional** [0..n]
 - dcat:catalog → **optional** [0..n]
 - dct:creator → **optional** [0..1]



Proposed changes from DCAT 2 – adding properties and classes (2/4)

- New properties for class **dcat:Dataset**
 - `prov:qualifiedAttribution` → **optional** [0..n] (::dcat:Resource)
 - `dct:creator` → **optional** [0..1] (::dcat:Resource)
 - `prov:wasGeneratedBy` → **optional** [0..n]
 - `dcat:temporalResolution` → **optional** [0..n]
 - `dcat:spatialResolutionInMeters` → **optional** [0..n]
- New properties for class **dcat:Distribution**
 - `odrl:hasPolicy` → **optional** [0..1]
 - `dcat:accessService` → **optional** [0..n]
 - `dcat:spatialResolutionInMeters` → **optional** [0..n]
 - `dcat:temporalResolution` → **optional** [0..n]
 - `dcat:compressFormat` → **optional** [0..n]
 - `dcat:packageFormat` → **optional** [0..n]



Proposed changes from DCAT 2 – adding properties and classes(3/4)

- New properties for class **dct:PeriodOfTime**
 - **dcat:startDate** → **recommended** [0..1](delete or deprecate **schema:startDate**, back-compatibility?)
 - **dcat:endDate** → **recommended** [0..1] (delete or deprecate **schema:endDate**, back-compatibility?)
 - **time:hasBeginning** → **optional** [0..1]
 - **time:hasEnd** → **optional** [0..1]
- New properties for class **dct:Location**
 - **locn:geometry** → **optional**[0..1]
 - **dcat:bbox** → **recommended** [0..1]
 - **dcat:centroid** → **recommended** [0..1]
- New class **dcat:Relationship** as **optional** with properties:
 - **dct:relation** → **mandatory** [1..n]
 - **dcat:hadRole** → **mandatory** [1..n]
- New class **dcat:Role** as **optional**



Proposed changes from DCAT 2 – domain, range and subclasses (4/4)

- Relax domain of `dcat:keyword` ([DCAT-AP-68](#))
- Relax the domain of `dcat:contactPoint` ([DCAT-AP-69](#))
- Make **`dcat:Catalog`** subclass of **`dcat:Dataset`** ([DCAT-AP-70](#))
- In `dcat:Catalog`, relax the range of `dcat:themeTaxonomy` and make it `rdfs:Resource` ([DCAT-AP-71](#)).
(The range is currently `skos:ConceptScheme`, which is OK as it was mentioned by a comment)
- In **`dcat:Dataset`** remove relation of sub-class of **`dctype:Dataset`** ([DCAT-AP-74](#)).
- In **`dcat:Distribution`**, tighten the range of property `dcat:mediaType` from `dct:MediaTypeOrExtent` to `dct:MediaType`.



Next steps

- Implement changes coming from DCAT 2
- Public review period for DCAT-AP v2.0 starts on 4 October 2019
- Release 2.0.0 to be published in November 2019



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DCAT 2 vs DCAT-AP 1/3

DCAT class name ▼	DCAT class ▼	DCAT property ▼	New ▼	Notes ▼
Catalog	dcat:Catalog			Existing class, new properties added
Catalog	dcat:Catalog	dcat:service	New	New property added in DCAT 2.
Catalog	dcat:Catalog	dcat:dataset	New	New property added in DCAT 2.
Catalog	dcat:Catalog	dct:hasPart	New	New property in DCAT 2, property of DCAT-AP (optional)
Catalog Record	dcat:CatalogRecord			Existing class, new properties added
Catalog Record	dcat:CatalogRecord	dct:conformsTo	New	New property in DCAT 2, property of DCAT-AP (recommended in ::CatalogRecord)
Data Service	dcat:DataService		New	New class added in DCAT 2
Data Service	dcat:DataService	dcat:servesDataset	New	New property added in DCAT 2.
Data Service	dcat:DataService	dcat:endpointURL	New	New property added in DCAT 2.
Data Service	dcat:DataService	dcat:endpointDescription	New	New property added in DCAT 2.
Data Service	dcat:DataService	dct:license	New	
Data Service	dcat:DataService	dct:accessRights	New	
Dataset	dcat:Dataset			Existing class, new properties added
Dataset	dcat:Dataset	prov:wasGeneratedBy	New	New in DCAT 2, property of GeoDCAT-AP
Dataset	dcat:Dataset	dcat:temporalResolution	New	New property added in this revision of DCAT.
Dataset	dcat:Dataset	dcat:spatialResolutionInMeters	New	New property added in this revision of DCAT.
Distribution	dcat:Distribution			Existing class, new properties added
Distribution	dcat:Distribution	dct:conformsTo	New	New property in DCAT 2, property of DCAT-AP (optional in ::Distribution)
Distribution	dcat:Distribution	dcat:accessService	New	New property added in DCAT 2
Distribution	dcat:Distribution	dcat:spatialResolutionInMeters	New	New property added in DCAT 2.
Distribution	dcat:Distribution	dcat:temporalResolution	New	New property added in DCAT 2.
Distribution	dcat:Distribution	dcat:compressFormat	New	New property added in DCAT 2.
Distribution	dcat:Distribution	dcat:packageFormat	New	New property added in DCAT 2.

DCAT 2 vs DCAT-AP 2/3

DCAT class name ▼	DCAT class ▼	DCAT property ▼	New ▼	Notes ▼
Catalogued Resource	dcat:Resource		New	New class added in DCAT 2 (super-class) with properties common to all catalogued resources
Catalogued Resource	dcat:Resource	dct:accessRights	New	New property in DCAT 2, property of DCAT-AP (optional in :: Dataset)
Catalogued Resource	dcat:Resource	dct:type	New	New property in DCAT 2, property of DCAT-AP
Catalogued Resource	dcat:Resource	dct:relation	New	New property in DCAT 2, property of DCAT-AP (optional in :: Dataset)
Catalogued Resource	dcat:Resource	dct:conformsTo	New	New property in DCAT 2, property of DCAT-AP (optional in ::Dataset, ::Distribution and recommended in ::CatalogRecord)
Catalogued Resource	dcat:Resource	prov:qualifiedAttribution	New	New property in DCAT 2, property of GeoDCAT-AP
Catalogued Resource	dcat:Resource	dct:creator	New	New property in DCAT 2, property of GeoDCAT-AP
Catalogued Resource	dcat:Resource	dct:title	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dct:description	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dct:issued	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dct:modified	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dct:language	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dct:publisher	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dct:identifier	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dcat:theme	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dcat:keyword	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dcat:contactPoint	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	dcat:landingPage	New	Property of dcat:Dataset in DCAT 2014
Catalogued Resource	dcat:Resource	odrl:hasPolicy	New	Property added in DCAT 2
Catalogued Resource	dcat:Resource	dct:isReferencedBy	New	Property added in DCAT 2
Catalogued Resource	dcat:Resource	dcat:qualifiedRelation	New	New property added in DCAT 2.

DCAT 2 vs DCAT-AP 2/3

DCAT class name ▼	DCAT class ▼	DCAT property ▼	New ▼	Notes ▼
Relationship	dcat:Relationship		New	New class added in DCAT 2
Relationship	dcat:Relationship	dct:relation	New	
Relationship	dcat:Relationship	dcat:hadRole	New	New property added in this revision of DCAT.
Role	dcat:Role		New	New class added in this revision of DCAT
Period of Time	dct:PeriodOfTime		New	Class added in this context in DCAT 2, class exists in DCAT-AP with different properies (schema:stastDate, schema:endDate)
Period of Time	dct:PeriodOfTime	dcat:startDate	New	
Period of Time	dct:PeriodOfTime	dcat:endDate	New	
Period of Time	dct:PeriodOfTime	time:hasBegginig	New	
Period of Time	dct:PeriodOfTime	time:hasEnd	New	
Location	dct:Location		New	Class added in this context in DCAT 2, class exists in DCAT-AP (optional)
Location	dct:Location	locn:geometry	New	New property in DCAT 2, Property used in GeoDCAT-AP
Location	dct:Location	dcat:bbox	New	
Location	dct:Location	dcat:centroid	New	
Location	dct:Location	w3cgeo:lat	New	
Location	dct:Location	w3cgeo:long	New	
Location	dct:Location	w3cgeo:alt	New	