

mobilityDCAT-AP Implementation and Publication

NAPCORE Mobility Data Days 2023

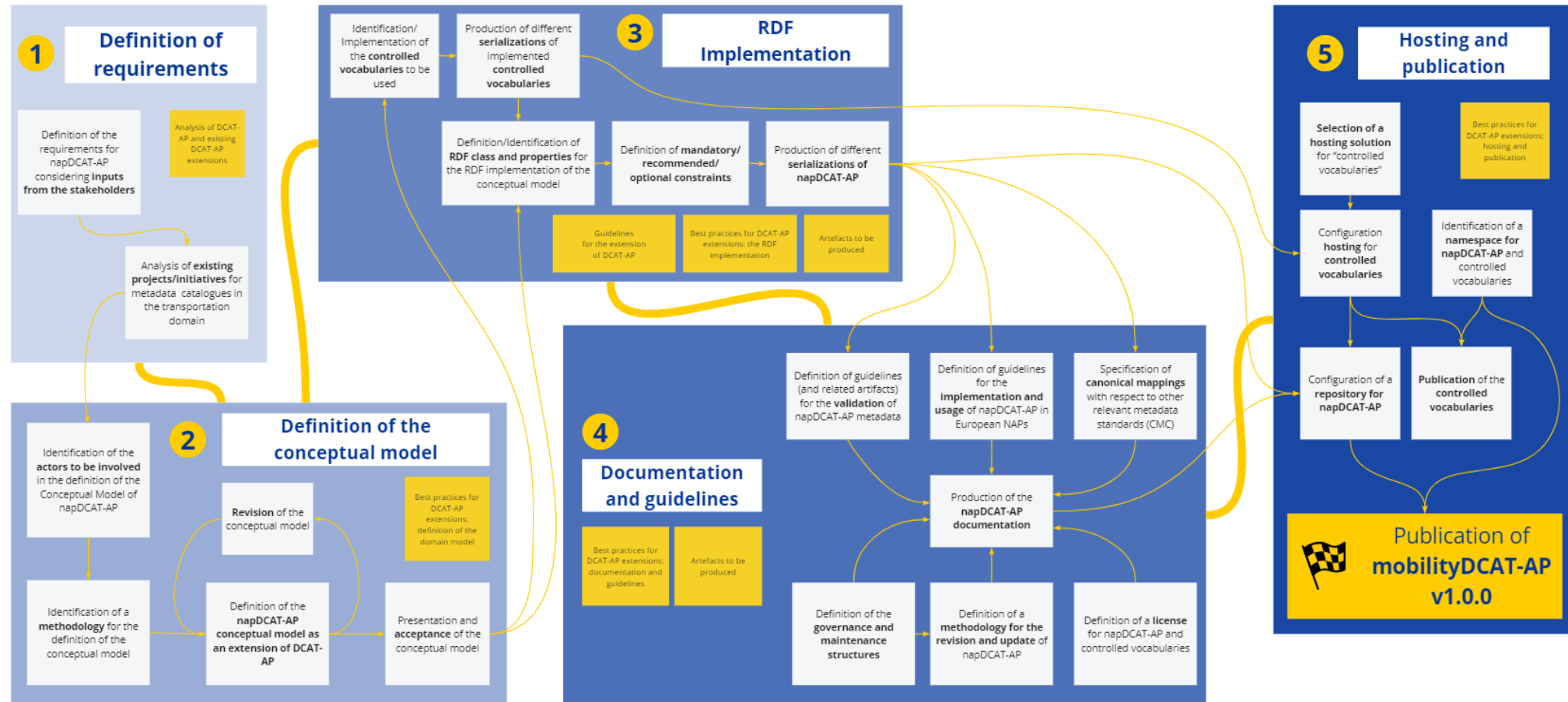
Mario Scrocca (Cefriel)

mario.scrocca@cefriel.com



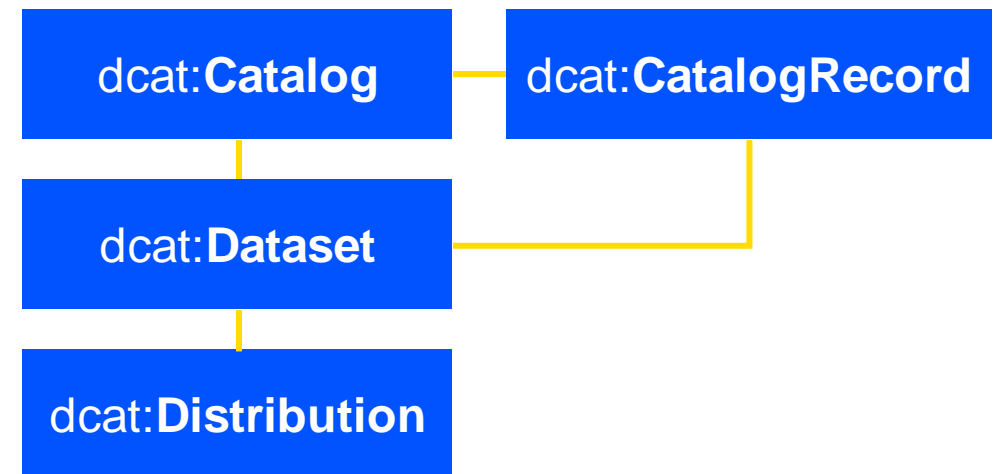
Co-funded by
the European Union

mobilityDCAT-AP Roadmap



mobilityDCAT-AP RDF Implementation

- We mapped the Conceptual Model to **RDF classes and properties** that should be used for the actual encoding of **metadata fields**
- We extended the DCAT Application Profile (DCAT-AP) defined by the European Commission



- We define **custom RDF class and properties**, e.g., `mobilitydcat-ap:transportMode` to encode the metadata information about the transport modes associated with a dataset

mobilityDCAT-AP Implementation

- Analysis of GeoDCAT-AP implementing SEMIC best practices for metadata specifications

1. Online website for documentation

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GeoDCAT-AP - Version 2.0.0

A geospatial extension for the DCAT application profile for data portals in Europe



SEMIC Recommendation 23 December 2020

This version:

<https://semiceu.github.io/GeoDCAT-AP/releases/2.0.0/>

Latest published version:

<https://semiceu.github.io/GeoDCAT-AP/releases/>

Latest editor's draft:

<https://semiceu.github.io/GeoDCAT-AP/drafts/latest/>

Previous version:

<https://semiceu.github.io/GeoDCAT-AP/drafts/2.0.0-draft-0.1/>

Previous Recommendation:

<https://semiceu.github.io/GeoDCAT-AP/releases/1.0.1/>

Editors:

Andrea Perego (External Consultant, European Commission, Joint Research Centre)
Bert van Nuffelen (TenForce)

Former editors:

Andrea Perego (European Commission, Joint Research Centre)
Stijn Goedertier (PwC EU Services)
Antonio Rolundo (Agenzia per l'Italia Digitale)

Author:

GeoDCAT-AP Working Group (EU ISA² Programme)

Participate:

GitHub [semiceu/geodcat-ap](https://github.com/semiceu/geodcat-ap)
File a bug
Commit history
Pull requests

Document status:

Completed

2. Different artifacts to be generated

3. Version Management

GeoDCAT-AP Releases

- Latest release:
 - [HTML version](#)
 - [Turtle version](#)
 - [RDF/XML version](#)
 - [JSON-LD version](#)
 - [SHACL version](#)
- [GeoDCAT-AP v2.0.0](#) (23 December 2020) - Major release.
- [GeoDCAT-AP v1.0.1](#) (2 August 2016) - Editorial revision to GeoDCAT-AP v1.0.
- [GeoDCAT-AP v1.0](#) (23 December 2015).

Licence

GeoDCAT-AP releases, starting from version 2.0.0, are distributed under [CC BY 4.0](#).

Previous releases are distributed under the [ISA Open Metadata Licence v1.1](#).

mobilityDCAT-AP Implementation

- mobilityDCAT-AP **HTML Documentation** defined using the ReSpec tool

Draft documentation (unstable)

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4.5.3	Optional properties for Catalogue Record

mobilityDCAT-AP - Version 1.0.0

A mobility extension for the DCAT application profile for data portals in Europe



NAPCORE Editor's Draft 11 May 2023

This version:

<https://w3id.org/mobilitydcat-ap/drafts/latest/>

Latest published version:

<https://w3id.org/mobilitydcat-ap/releases/>

Latest editor's draft:

<https://w3id.org/mobilitydcat-ap/drafts/latest/>

Latest Recommendation:

<https://w3id.org/mobilitydcat-ap/releases/1.0.0/>

Editors:

Lina Molinas Comet (Fraunhofer Institute for Applied Information Technology FIT)
Peter Lubrich (Federal Highway Research Institute (BAST))
Mario Scrocca (Cefriel)

Author:

NAPCORE Sub-Working Group (SWG) 4.4 (NAPCORE (National Access Point Coordination Organisation for Europe) Organization)

Participate:

[GitHub mobilityDCAT-AP/mobilityDCAT-AP](#)

[File a bug](#)

[Commit history](#)

[Pull requests](#)

Document status:

Completed

Document version:

1.0.0

Please check the [errata](#) for any errors or issues reported since publication.

This document is also available in these non-normative formats: [RDF/XML](#), [Turtle](#), [JSON-LD](#), and [SHACL](#) ([Turtle](#))

Versioned releases (stable)

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4.5.1	Mandatory properties for Catalogue Record
4.5.2	Recommended properties for Catalogue Record
4.5.3	Optional properties for Catalogue Record

mobilityDCAT-AP - Version 1.0.0

A mobility extension for the DCAT application profile for data portals in Europe



NAPCORE Recommendation 16 October 2023

This version:

<https://w3id.org/mobilitydcat-ap/releases/1.0.0/>

Latest published version:

<https://w3id.org/mobilitydcat-ap/releases/>

Latest editor's draft:

<https://w3id.org/mobilitydcat-ap/drafts/latest/>

Previous version:

<https://w3id.org/mobilitydcat-ap/drafts/1.0.0-draft-0.1/>

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Lina Molinas Comet (Fraunhofer Institute for Applied Information Technology FIT)
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Author:

NAPCORE Sub-Working Group (SWG) 4.4 (NAPCORE (National Access Point Coordination Organisation for Europe) Organization)

Participate:

[GitHub mobilityDCAT-AP/mobilityDCAT-AP](#)

[File a bug](#)

[Commit history](#)

[Pull requests](#)

Document status:

Completed

Document version:

1.0.0

Reviewed by:

NAPCORE SWG 4.4

mobilityDCAT-AP Implementation

- **Machine-readable serializations** in different RDF formats: RDF/XML, Turtle, JSON-LD
- SHACL shapes for the **automatic validation of metadata**, i.e., to check if a set of metadata comply with the specification

```
@prefix vcard: <http://www.w3.org/2006/vcard/ns#> .
@prefix voaf: <http://purl.org/vocommons/voaf#> .
@prefix vs: <http://www.w3.org/2003/06/sw-vocab-status/ns#> .
@prefix xml: <http://www.w3.org/XML/1998/namespace> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@base <https://w3id.org/mobilitydcat-ap/> .

mobilitydcatap: a voaf:Vocabulary,
  owl:Ontology,
  adms:Asset ;
rdfs:label "mobilityDCAT-AP"@en ;
dct:abstract "mobilityDCAT-AP is an extension of the DCAT application profile for data portals
dct:alternative "mobilityDCAT-AP - Version 1.0.0: A mobility extension for the DCAT applicatio
dct:conformsTo dcatap: ,
  <https://joinup.ec.europa.eu/collection/semantic-interoperability-community-semic/document/p
  <https://joinup.ec.europa.eu/collection/semantic-interoperability-community-semic/solution/d
  <https://www.w3.org/TR/vocab-dcat-2/> ;
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  foaf:name "NAPCORE SWG 4.4" ;
  foaf:page <https://github.com/mobilityDCAT-AP/mobilityDCAT-AP> ] ;
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dct:modified "2023-10-15"^^xsd:date ;
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dct:rightsHolder <https://napcore.eu/> ;
dct:title "mobilityDCAT-AP"@en ;
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  <http://publications.europa.eu/resource/authority/dataset-type/APROF>,
  <http://publications.europa.eu/resource/authority/dataset-type/ONTOLOGY> ;
bibo:editor [ a foaf:Person ;
  foaf:name "Lina Molinas Comet" ],
  <https://lina-molinas-comet.name/foaf/#me> ;
vann:preferredNamespacePrefix "mobilitydcatap" ;
vann:preferredNamespaceUri "http://w3id.org/mobilitydcat-ap/"^^xsd:anyURI ;
voaf:reliesOn dcatap: ,
  dct: ,
  rdfs: ;
```

Controlled Vocabularies

- The mobilityDCAT-AP specification also defines “**recommended values**” to be used for certain metadata fields
- For example, a fixed list of transport modes is defined for the property `mobilitydcat-ap:transportMode`
- mobilityDCAT-AP defines **11 controlled vocabularies** using the W3C **SKOS Recommendation**

Air
Bicycle
Bike Hire
Bike Sharing
Bus
Car
Car Hire
Car Pooling
Car Sharing
E-Scooter
Long-distance coach
Long-distance rail
Maritime
Metro, Subway train
Motorcycle
Pedestrian
Regional and local rail
Ride Pooling
Shuttle bus
Shuttle ferry
Taxi
Tram, Light rail
Truck
Other

Controlled Vocabularies

- Excel-based definition to better support collaboration and inputs from domain experts
- The Excel2RDF tool is used to automatically serialise the vocabulary in RDF

ConceptScheme URI	https://w3id.org/mobilitycat-ap/transport-mode
dct:title	Transport Mode
dct:description	Controlled vocabulary for the transport modes covered by a dataset.
dct:creator	Mario Scrocca (Cefriel)
dct:creator	Peter Lubrich (BAST)
dct:publisher	NAPCORE SubWG4.4
dct:contributor	
owl:versionInfo	1.0.0
owl:versionIRI	https://w3id.org/mobilitycat-ap/transport-mode/1.0.0
owl:priorVersion	
dct:license	https://creativecommons.org/licenses/by/4.0/
http://purl.org/ontology/bibo/status	Published Controlled Vocabulary
URI	skos:prefLabel
https://w3id.org/mobilitycat-ap/transport-mode/air	Air
https://w3id.org/mobilitycat-ap/transport-mode/bicycle	Bicycle
https://w3id.org/mobilitycat-ap/transport-mode/bike-hire	Bike Hire
https://w3id.org/mobilitycat-ap/transport-mode/bike-sharing	Bike Sharing
https://w3id.org/mobilitycat-ap/transport-mode/bus	Bus
https://w3id.org/mobilitycat-ap/transport-mode/car	Car
https://w3id.org/mobilitycat-ap/transport-mode/car-hire	Car Hire
https://w3id.org/mobilitycat-ap/transport-mode/car-pooling	Car Pooling
https://w3id.org/mobilitycat-ap/transport-mode/car-sharing	Car Sharing
https://w3id.org/mobilitycat-ap/transport-mode/e-scooter	E-Scooter
https://w3id.org/mobilitycat-ap/transport-mode/long-distance-coach	Long-distance coach
https://w3id.org/mobilitycat-ap/transport-mode/long-distance-rail	Long-distance rail
https://w3id.org/mobilitycat-ap/transport-mode/maritime	Maritime
https://w3id.org/mobilitycat-ap/transport-mode/metro-subway-train	Metro, Subway train
https://w3id.org/mobilitycat-ap/transport-mode/motorcycle	Motorcycle
https://w3id.org/mobilitycat-ap/transport-mode/pedestrian	Pedestrian
https://w3id.org/mobilitycat-ap/transport-mode/regional-and-local-rail	Regional and local rail
https://w3id.org/mobilitycat-ap/transport-mode/ride-pooling	Ride Pooling
https://w3id.org/mobilitycat-ap/transport-mode/shuttle-bus	Shuttle bus
https://w3id.org/mobilitycat-ap/transport-mode/shuttle-ferry	Shuttle ferry



```
@prefix : <https://w3id.org/mobilitycat-ap/transport-mode#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix xml: <http://www.w3.org/XML/1998/namespace> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
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owl:versionIRI <https://w3id.org/mobilitycat-ap/transport-mode/1.0.0> ;
<http://purl.org/dc/terms/creator> "Mario Scrocca (Cefriel)"@en , "Peter Lubrich (BAST)"@en ;
<http://purl.org/dc/terms/description> "Controlled vocabulary for the transport modes covered by a dataset."@en ;
<http://purl.org/dc/terms/license> <https://creativecommons.org/licenses/by/4.0/> ;
<http://purl.org/dc/terms/publisher> "NAPCORE SubWG4.4"@en ;
<http://purl.org/dc/terms/title> "Transport Mode"@en ;
<http://purl.org/ontology/bibo/status> "Published Controlled Vocabulary"@en ;
owl:versionInfo "1.0.0"@en ;
<http://www.w3.org/2004/02/skos/core#hasTopConcept> <https://w3id.org/mobilitycat-ap/transport-mode/air> ,
<https://w3id.org/mobilitycat-ap/transport-mode/bicycle> ,
<https://w3id.org/mobilitycat-ap/transport-mode/bike-hire> ,
<https://w3id.org/mobilitycat-ap/transport-mode/bike-sharing> ,
<https://w3id.org/mobilitycat-ap/transport-mode/bus> ,
<https://w3id.org/mobilitycat-ap/transport-mode/car> ,
<https://w3id.org/mobilitycat-ap/transport-mode/car-hire> ,
<https://w3id.org/mobilitycat-ap/transport-mode/car-pooling> ,
<https://w3id.org/mobilitycat-ap/transport-mode/car-sharing> ,
<https://w3id.org/mobilitycat-ap/transport-mode/e-scooter> ,
<https://w3id.org/mobilitycat-ap/transport-mode/long-distance-coach> ,
<https://w3id.org/mobilitycat-ap/transport-mode/long-distance-rail> ,
<https://w3id.org/mobilitycat-ap/transport-mode/maritime> ,
<https://w3id.org/mobilitycat-ap/transport-mode/metro-subway-train> ,
<https://w3id.org/mobilitycat-ap/transport-mode/motorcycle> ,
<https://w3id.org/mobilitycat-ap/transport-mode/other> ,
<https://w3id.org/mobilitycat-ap/transport-mode/pedestrian> ,
<https://w3id.org/mobilitycat-ap/transport-mode/regional-and-local-rail> ,
<https://w3id.org/mobilitycat-ap/transport-mode/ride-pooling> ,
<https://w3id.org/mobilitycat-ap/transport-mode/shuttle-bus> ,
<https://w3id.org/mobilitycat-ap/transport-mode/shuttle-ferry> ,
<https://w3id.org/mobilitycat-ap/transport-mode/taxi> ,
<https://w3id.org/mobilitycat-ap/transport-mode/tram-light-rail> ,
<https://w3id.org/mobilitycat-ap/transport-mode/truck> .
```


Controlled Vocabularies

- For each vocabulary, the Widoco tool is used to automatically generate the **HTML documentation** and different RDF serialisation files
- **Version management:** new versions of each vocabulary may be released independently from the mobilityDCAT-AP specification

Transport Mode

This version:

<https://w3id.org/mobilitydcat-ap/transport-mode/1.0.0>

Revision:

1.0.0

Authors:

Mario Scrocca (Cefriel)
Peter Lubrich (BAST)

Publisher:

NAPCORE SubWG4.4

Download serialization:

[Format JSON LD](#) [Format RDF/XML](#) [Format N Triples](#) [Format TTL](#)

License:

[License https://creativecommons.org/licenses/by/4.0/](https://creativecommons.org/licenses/by/4.0/)

Cite as:

Mario Scrocca (Cefriel), Peter Lubrich (BAST). Transport Mode. Revision: 1.0.0.
Retrieved from: <https://w3id.org/mobilitydcat-ap/transport-mode/1.0.0>

[Provenance of this page](#)

Abstract

Controlled vocabulary for the transport modes covered by a dataset.

1. Transport Mode: Overview

[back to ToC](#)

This ontology has the following classes and properties.

Named Individuals

[Air](#) [Bicycle](#) [Bike Hire](#) [Bike Sharing](#) [Bus](#) [Car](#) [Car Hire](#) [Car Pooling](#)
[Car Sharing](#) [E-Scooter](#) [Long-distance coach](#) [Long-distance rail](#) [Maritime](#)
[Metro_Subway_train](#) [Motorcycle](#) [Other](#) [Pedestrian](#) [Regional and local rail](#)
[Ride Pooling](#) [Shuttle bus](#) [Shuttle ferry](#) [Taxi](#) [Tram_Light rail](#) [transport mode](#)
[Truck](#)

mobilityDCAT-AP Publication

- **Hosting Solution:** solution to store, edit and make available online all the artifacts associated with mobilityDCAT-AP
- A **GitHub Organisation mobilityDCAT-AP** ([link](#)) was created to collaboratively manage the specification and the controlled vocabularies defined



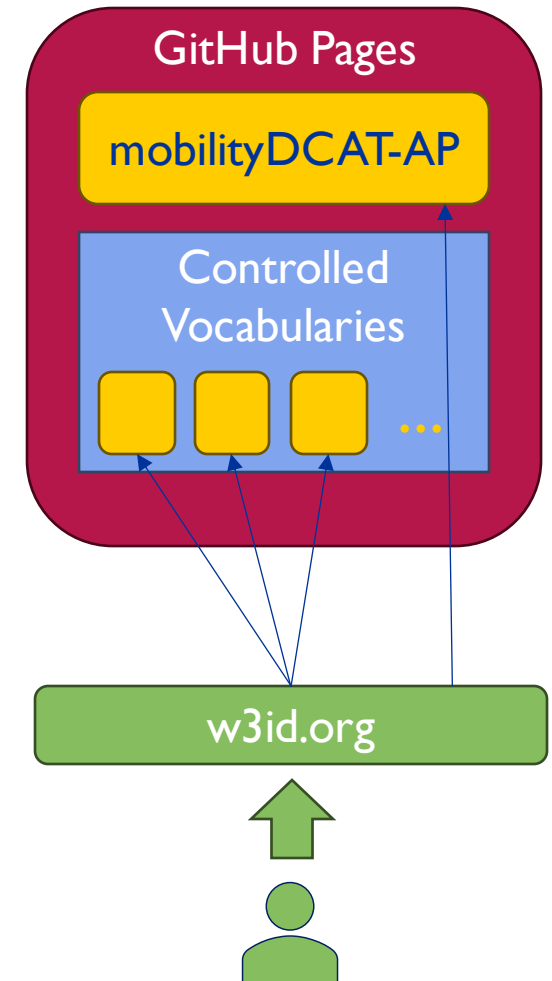
A screenshot of the GitHub organization page for mobilityDCAT-AP. The page header shows the organization name and a search bar. Below the header, there are navigation tabs for Overview, Repositories (5), Projects, Packages, Teams, People (6), and Settings. The main content area features the organization's profile picture (a circle of yellow dots) and the name "mobilityDCAT-AP" with the tagline "Providing a baseline for a new metadata scheme for European NAPs." Below this, there is a "Pinned" section with two repository cards: "mobilityDCAT-AP" (Public) and "controlled-vocabularies" (Public). The "mobilityDCAT-AP" card shows it is a repository of the mobility extension to DCAT-AP, with 3 HTML files, 3 stars, and 3 forks. The "controlled-vocabularies" card shows it contains controlled vocabularies defined by mobilityDCAT-AP, with 1 HTML file. Below the pinned section is a "Repositories" section with a search bar and filters for Type, Language, and Sort. Two repository cards are listed: "mobilityDCAT-AP" (Public) and "controlled-vocabularies" (Public). The "mobilityDCAT-AP" card shows it is a repository of the mobility extension to DCAT-AP, with 3 HTML files, 3 stars, CC-BY-4.0 license, 3 forks, 5 commits, 0 issues, and 0 pull requests, updated 4 days ago. The "controlled-vocabularies" card shows it contains controlled vocabularies defined by mobilityDCAT-AP, with 1 HTML file, 0 stars, CC-BY-4.0 license, 0 forks, 0 commits, 0 issues, and 0 pull requests, updated 3 weeks ago.

mobilityDCAT-AP Publication

- The publication of the specification online also requires the definition of a **Persistent Identifier** that should guarantee the possibility of changing the hosting solution in the future
- We selected the **w3id service** reserving the following namespace for mobilityDCAT-AP

<https://w3id.org/mobilitydcat-ap>

- The namespace handles **the possibility** to request the **specification** and the **controlled vocabularies** in different formats, e.g., HTML, Turtle, etc.



mobilityDCAT-AP Publication

- mobilityDCAT-AP specification v1.0.0:
<https://w3id.org/mobilitydcat-ap/releases/>

This version:

<https://w3id.org/mobilitydcat-ap/releases/1.0.0/>

Latest published version:

<https://w3id.org/mobilitydcat-ap/releases/>

Latest editor's draft:

<https://w3id.org/mobilitydcat-ap/drafts/latest/>

Previous version:

<https://w3id.org/mobilitydcat-ap/drafts/1.0.0-draft-0.1/>

Latest Recommendation:

<https://w3id.org/mobilitydcat-ap/releases/1.0.0/>

- List of **Controlled Vocabularies** described in the “Controlled vocabularies to be used” section ([link](#))

- Application Layer Protocol, <https://w3id.org/mobilitydcat-ap/application-layer-protocol>
- Communication Method, <https://w3id.org/mobilitydcat-ap/communication-method>
- Conditions for Access and Usage, <https://w3id.org/mobilitydcat-ap/conditions-for-access-and-usage>
- Mobility Theme, <https://w3id.org/mobilitydcat-ap/mobility-theme>
- Mobility Data Standard, <https://w3id.org/mobilitydcat-ap/mobility-data-standard>
- Georeferencing Method, <https://w3id.org/mobilitydcat-ap/georeferencing-method>
- Grammar, <https://w3id.org/mobilitydcat-ap/grammar>
- Network Coverage, <https://w3id.org/mobilitydcat-ap/network-coverage>
- Intended Information Service, <https://w3id.org/mobilitydcat-ap/intended-information-service>
- Transport Mode, <https://w3id.org/mobilitydcat-ap/transport-mode>
- Update Frequency, <https://w3id.org/mobilitydcat-ap/update-frequency>

mobilityDCAT-AP Publication

- **GitHub Repository:** <https://github.com/mobilityDCAT-AP/mobilityDCAT-AP>

- Everyone is invited to **open an issue on GitHub** to propose a use case not covered by the specification and/or to share any feedback

- Issues will be considered for the development of new releases of mobilityDCAT-AP

mobilityDCAT-AP Public

gh-pages 2 branches 0 tags

Go to file Add file Code

Author	Commit Message	Time Ago
Icomet	update config file	4 days ago
	update release version with updated acknowledgement section	4 days ago
	update release version	last month
	Update CONTRIBUTING.md	3 months ago
	initial adaptation of the content from GeoDCAT-AP to mobilityDCAT-AP	7 months ago
	Update README.md	3 weeks ago

README.md

mobilityDCAT-AP

This is the issue tracker for the maintenance of [mobilityDCAT-AP](#).

mobilityDCAT-AP is an extension of [DCAT-AP](#) for describing mobility datasets, dataset series, and services. It provides an RDF syntax binding for the union of metadata elements defined in the National Access Points across Europe. Its basic use case is to make mobility datasets, data series, and services searchable on general data portals, thereby making mobility information better searchable across borders and sectors.

About

Repository of the mobility extension to DCAT-AP (mobilityDCAT-AP)

[napcore.eu/providing-a-baseline-for-a-n...](#)

metadata interoperability mobility europe dcat-ap application-profile data-portals mobility-data data-specification

Readme CC-BY-4.0 license Cite this repository Activity 3 stars 3 watching 3 forks Report repository

Releases

No releases published [Create a new release](#)

Thank you for your attention!

Any questions?



MARIO SCROCCA
Knowledge Engineer
Cefriel



[marioscrocca](#)



[@mario_scrocca](#)



mario.scrocca@cefriel.com