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1. **Introduction** 
   1. ***Context***

This objective of this work is to define an Application Profile that can be used for the descriptions of datasets inside the European Parliament. This application profile is based on the DCAT-AP 2.0.1, application profile prepared for the ISA2 Programme[[1]](#footnote-0).

An Application Profile is a specification that re-uses terms from one or more core ontologies, adding more specificity by identifying mandatory, recommended and optional elements to be used for a particular application, as well as recommendations for controlled vocabularies to be used.

The Application Profile is intended to facilitate dataset descriptions inside the European Parliament and therefore the classes and properties defined in this document are only relevant for the data to be disseminated inside the European Parliament ; there are no requirements for implementation of specific technical environments. The only requirement is that the dataset catalogue can export and import data in RDF in conformance with this Application Profile.

* 1. ***Context of use***

The dcat-ap-ep involves the following actors and systems:

* the data providers who must provide descriptions of the datasets based on this application profile,
* the European Parliament data team who must control the description of the datasets received,
* a technical environment which must be able to manage the dataset descriptions as records in a catalogue management system.

The DCAT-AP-EP application profile described in this document is based on DCAT-AP 2.0.1, however various changes have been introduced:

* Controlled vocabularies have been selected for all the properties with controlled values.
  1. ***The DCAT specification***

The specification of the Data Catalog Vocabulary (DCAT) Version 2 was published by W3C as a W3C Recommendation 04 February 2020[[2]](#footnote-1).

The DCAT Application Profile defined in this document is based on this officially published version.

1. **Terminology used in the DCAT Application Profile for European Parliament**

* An **Application Profile** is a specification that re-uses terms from one or more base standards, adding more specificity by identifying mandatory, recommended and optional elements to be used for a particular application, as well as recommendations for controlled vocabularies to be used.
* A **Dataset** is a collection of data, published or curated by a single source, and available for access or download in one or more formats.
* A **Data Portal** is a Web-based system that contains a data catalogue with descriptions of datasets and provides services enabling discovery and re-use of the datasets.
* In the following sections, classes and properties are qualified as ‘mandatory’ or ‘optional’.
* In the given context, the term "processing" means that the dataset catalogue system must accept incoming data and transparently provide these data to applications and services.
* The class ‘Distribution’ is classified as ‘Recommended’ to allow for cases that a particular Dataset does not have a downloadable Distribution. However, it can be expected that in the majority of cases Datasets do have downloadable Distributions, and in such cases the provision of information on the Distribution is mandatory.
* The Application Profile reuses terms from various existing specifications. Classes and properties specified in the next sections have been taken from the following namespaces:
* adms: [http://www.w3.org/ns/adms#](http://www.w3.org/ns/adms)
* dcat: [http://www.w3.org/ns/dcat#](http://www.w3.org/ns/dcat)
* dcatap:<http://data.europa.eu/r5r/>
* dct:<http://purl.org/dc/terms/>
* foaf:<http://xmlns.com/foaf/0.1/>
* locn: http://www.w3.org/ns/locn#
* owl: [http://www.w3.org/2002/07/owl#](http://www.w3.org/2002/07/owl)
* odrl:<http://www.w3.org/ns/odrl/2/>
* prov:<http://www.w3.org/ns/prov>
* rdfs: [http://www.w3.org/2000/01/rdf-schema#](http://www.w3.org/2000/01/rdf-schema)
* schema:<http://schema.org/>
* skos: [http://www.w3.org/2004/02/skos/core#](http://www.w3.org/2004/02/skos/core)
* spdx: [http://spdx.org/rdf/terms#](http://spdx.org/rdf/terms)
* xsd: [http://www.w3.org/2001/XMLSchema#](http://www.w3.org/2001/XMLSchema)
* vann:<http://purl.org/vocab/vann/>
* voaf: [http://purl.org/vocommons/voaf#](http://purl.org/vocommons/voaf%23)
* vcard: [http://www.w3.org/2006/vcard/ns#](http://www.w3.org/2006/vcard/ns)
* time: [http://www.w3.org/2006/time#](http://www.w3.org/2006/time)

Notes and

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# Namespace for the project

http://data.europarl.europa.eu/

# 

# Ontology

## Ontology

[http://data.europarl.europa.eu/ontology/{ontology](https://www.data.europarl.europa.eu/ontology/%7Bontology) natural identifier}

Example

[http://data.europarl.europa.eu/ontology/ep](https://www.data.europarl.europa.eu/ontology/ep)

## Classe (owl:Class)

[http://data.europarl.europa.eu/ontology/{ontology](https://www.data.europarl.europa.eu/ontology/%7Bontology) natural identifier}#{class natural identifier}

Example

http://data.europarl.europa.eu/ontology/ep#Vote

## Property (owl:ObjectProperty and owl:DatatypeProperty)

[http://data.europarl.europa.eu/ontology/{ontology](https://www.data.europarl.europa.eu/ontology/%7Bontology) natural identifier}#{property natural identier}

Example

http://data.europarl.europa.eu/ontology/ep#voteAgainst

# Vocabulary

## Vocabulary (skos:ConceptScheme)

[http://data.europarl.europa.eu/authority/{vocabulary](https://www.data.europarl.europa.eu/authority/%7Bvocabulary) natural identifier}

Example

<http://data.europarl.europa.eu/authority/civility>

## Concept (skos:Concept)

[http://data.europarl.europa.eu/authority/{vocabulary](https://www.data.europarl.europa.eu/authority/%7Bvocabulary) natural identifier}[/{](https://www.data.europarl.europa.eu/authority/%7Bvocabulary)concept natural identifier}

Or

[http://data.europarl.europa.eu/authority/{vocabulary](https://www.data.europarl.europa.eu/authority/%7Bvocabulary) natural identifier}[/{](https://www.data.europarl.europa.eu/authority/%7Bvocabulary)serial number}

Example

http://data.europarl.europa.eu/authority/civility/MR

## 

# Dataset catalogue

## Catalogue (dcat:Catalogue)

https//data.europarl.europa.eu/catalogue/{natural identifier}

Example

[http://data.europarl.europa.eu/catalog/1](http://data.europa.eu/xxx/dcat/collection/1)

## Master Dataset (dcat:dataset)

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/{natural identifier}

Example

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/member-of-parliament

## Dataset (dcat:Dataset)

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/{natural identifier}/{date}(number in the day)

Remark : (number in the day) only used if the same dataset has two version the same day

Example

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/member-of-parliament/20201109

or

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/member-of-parliament/20201109(2)

## Distribution (dcat:Distribution)

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/{natural identifier}/{date}(number in the day)/{user format}

Example

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/member-of-parliament/20201109/csv

or

[http://data.europarl.europa.eu/](http://data.europa.eu/xxx)dataset/member-of-parliament/20201109(2)/csv

## 

## File

[data.europa.eu](http://data.europa.eu/xxx)-dataset-{natural identifier}-{date}(number in the day)-{user format}

Example

[data.europa.eu](http://data.europa.eu/xxx)-dataset-member-of-parliament-20201109-csv.csv

# ELI-DL Identifier for legislative activity at European Parliament

## Plenary session

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeetingGroup/{starting date}-{ending date}

Example

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeetingGroup/20191216-20191219

## Plenary sitting

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeeting/{date}

Example

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeeting/20191219

## Vote activity

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeeting/{date}/{vote\_serial number}

Example

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeeting/20191219/3

## Vote result by mep

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeeting/{date}/{vote\_serial number}/{mep id}

Example

[http://data.europarl.europa.eu/eli/dl/](http://data.europa.eu/xxx/eli/dl/session/%7byear%7d/%7bdate)iPlMeeting/20191219/3/mep\_342

# Person (foaf:Person)

[http://data.europarl.europa.eu/person/{](http://data.europa.eu/xxx/person/%7bnatural)person id }

Example

[http://data.europarl.europa.eu/person/](http://data.europa.eu/xxx/person/%7bnatural)mep\_342

[http://data.europarl.europa.eu/person/](http://data.europa.eu/xxx/person/%7bnatural)assistant\_45

# Organisation

## Organisation (org:Organization)

http://data.europarl.europa.eu/org/[{org-type](http://data.europa.eu/xxx/org/%7borg-type)}/{natural identifier}

Example

http://data.europarl.europa.eu/org/group/cd-497

## Membership of a person to an organisation (org:Membership)

[http://data.europarl.europa.eu/person/{](http://data.europa.eu/xxx/person/%7bnatural)id }/membership/{serial}

Example

[http://data.europarl.europa.eu/person/](http://data.europa.eu/xxx/person/%7bnatural)mep\_342/membership/3

1. https://joinup.ec.europa.eu/collection/semantic-interoperability-community-semic/solution/dcat-application-profile-data-portals-europe/release/201-0 [↑](#footnote-ref-0)
2. https://www.w3.org/TR/vocab-dcat/#bib-vocab-dcat-20140116 [↑](#footnote-ref-1)