

Czech Core Metadata Model

Petra Černohlávková, National Library of Technology, <https://orcid.org/0000-0001-8683-6156>

Michal Med, Cesnet, <https://orcid.org/0000-0002-3844-426X>

Alexandr Kuchynka, National Library of Technology, <https://orcid.org/0009-0002-8754-8206>

Seminar CCMM: Model, Principles, Tools

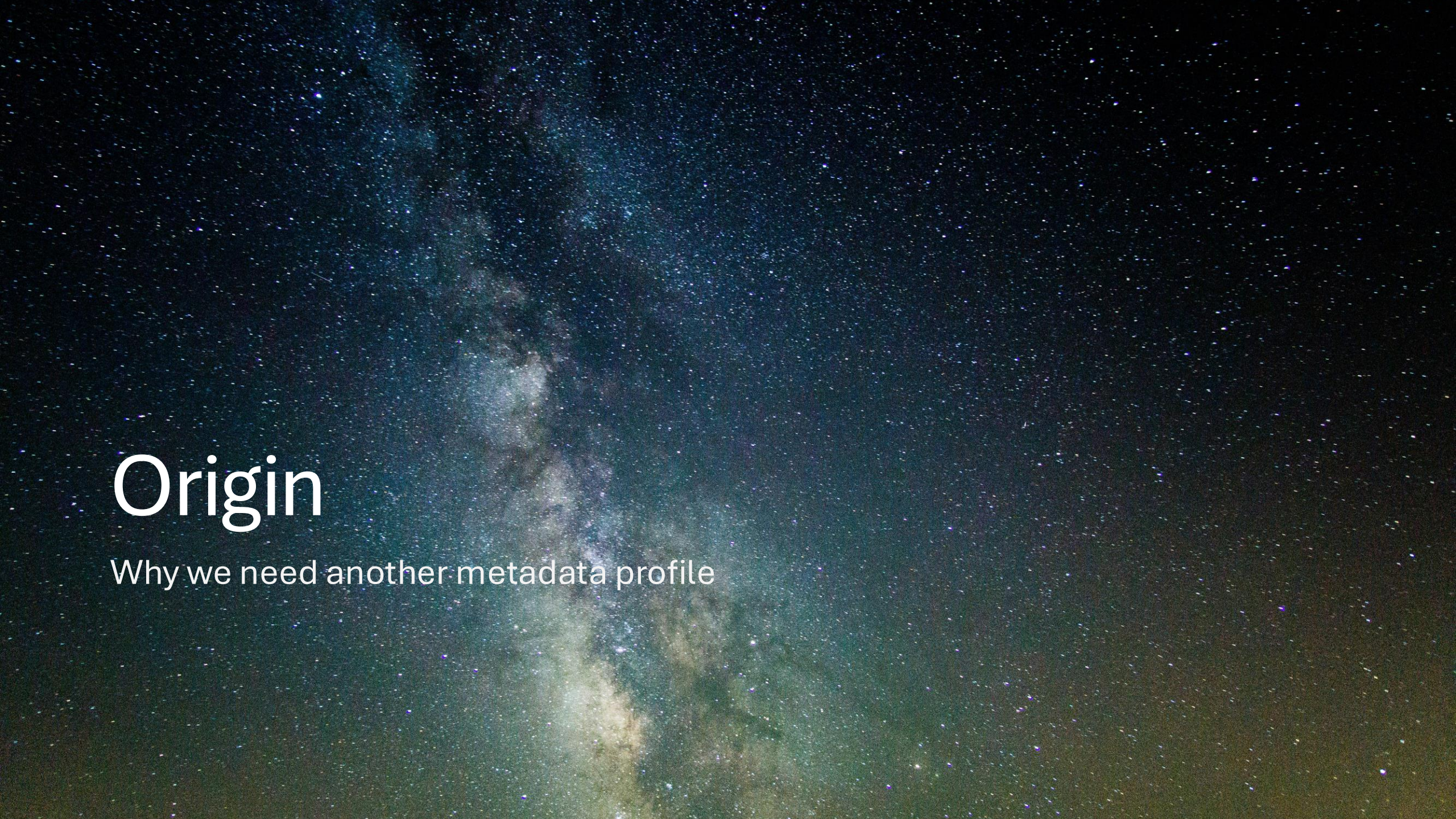
26th September 2025



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the European Union



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Origin

Why we need another metadata profile

NDI

Central Discovery Portal

National Metadata Directory

National Repository Catalogue

New Generation Platform

NRP

Catch-all
Repository

Thematic
Repositories

Other
Repositories

Thematic/Other
Repositories

System
#1

System
#2

System
#3

Other
Systems

Other
Systems

Storages

Other
Storages

Print.
documents

El.
documents

IPs EOSC-CZ

IPs CARDS

OS Call project (NRP)

Other sources

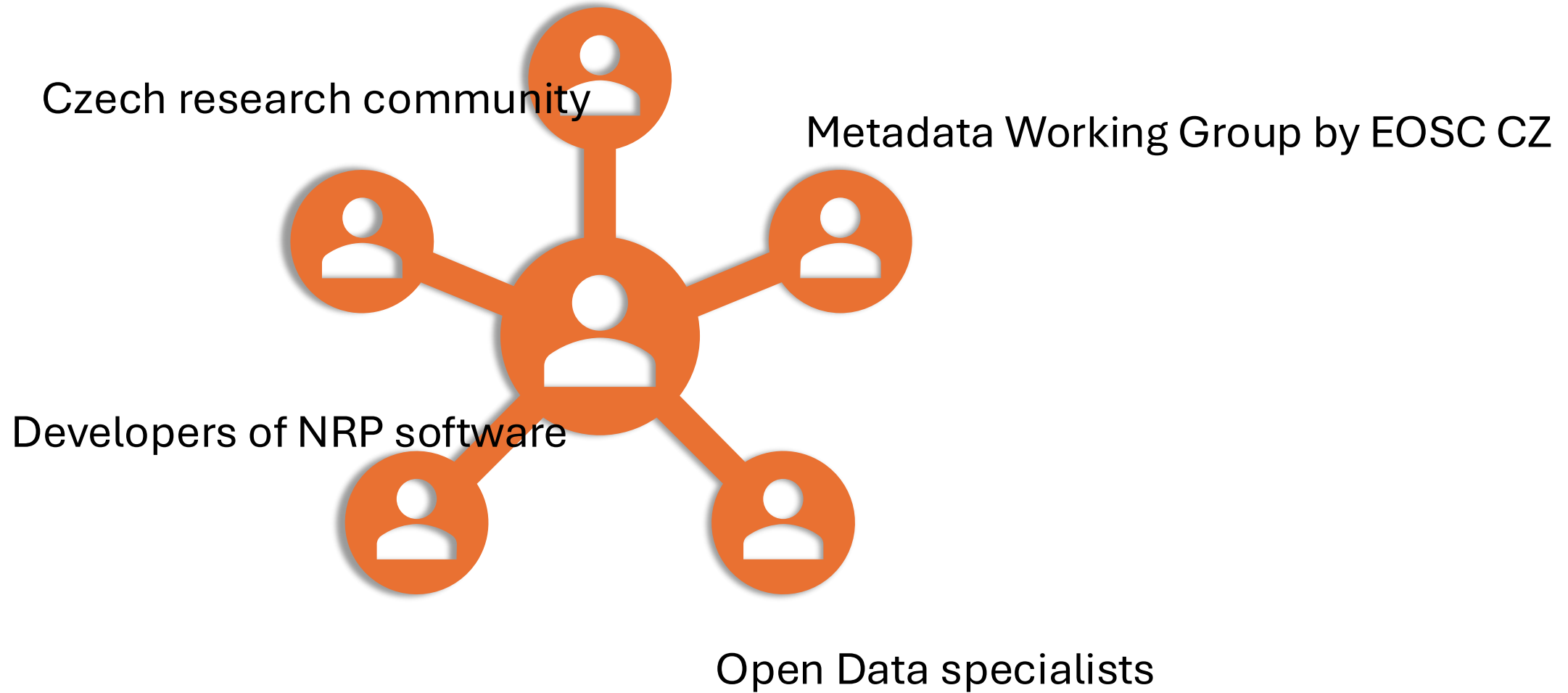
Selection criteria

- use an existing scheme/s as a basis
- focus on universality
- established standards and good practice in research data management
- possible interoperability with other systems
- basis for subject based metadata schemas

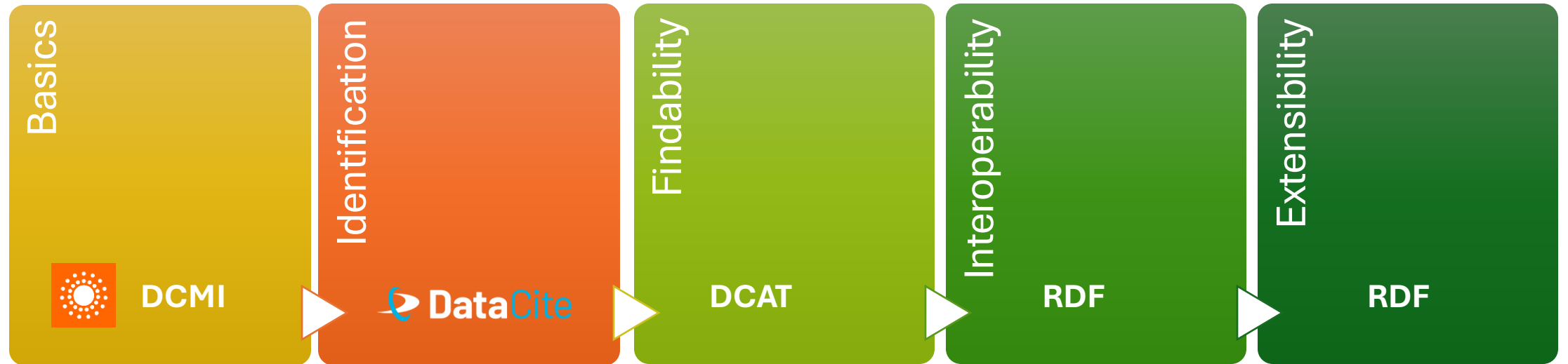
Existing metadata profiles

- Dublin Core – top level metadata, describing object basics
- DataCite – widely used, DOI
- DCAT(-AP) - used in catalogues

Needs



Needs





DCAT(-AP(-CZ))

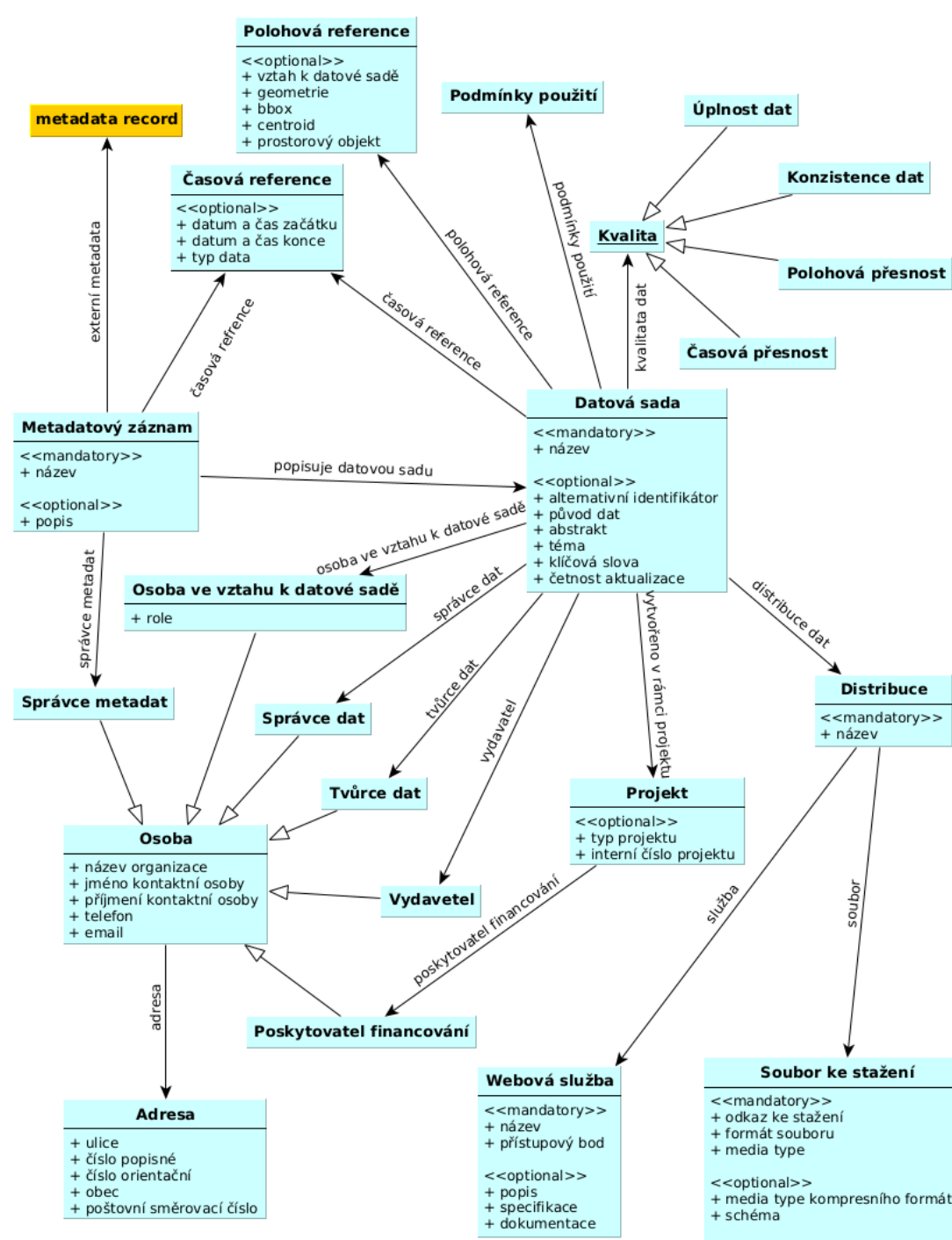
Dublin Core

DataCite

CCMM

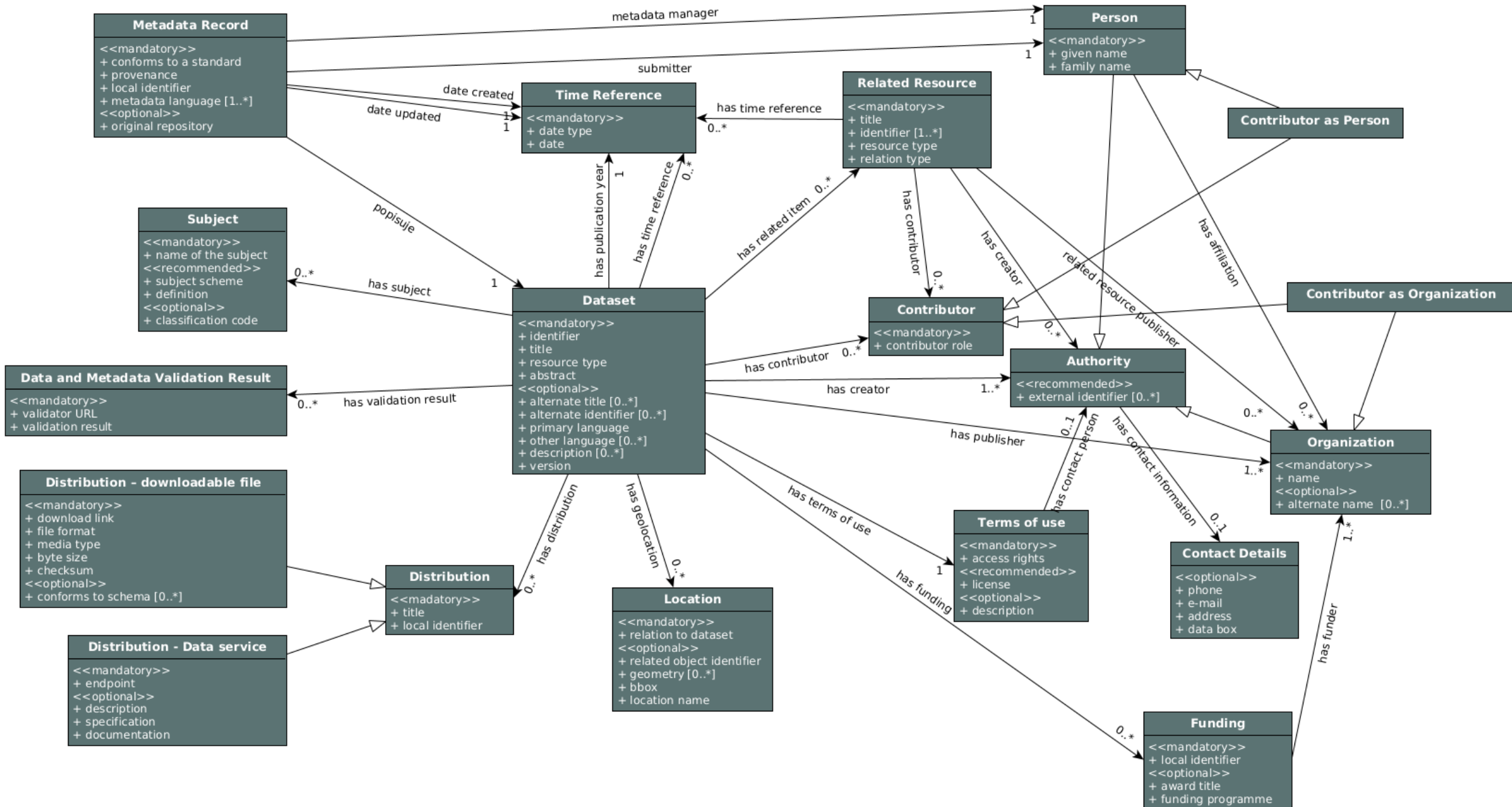


Creation process



9	Date	0-n	Different dates relevant to the work	type (1)
10	Language	0-1	The primary language of the resource	
11	ResourceType	1	A description of the resource	free text; e.g., that it is a dataset or spectra supporting Fig. 4 in the publication resource
12	alternateIdentifier	0-n	An identifier other than the primary Identifier applied to the resource being registered.	free text type,
13	RelatedIdentifier	0-n	Identifiers of related resources. These must be globally unique identifiers.	free text, frequently DOI of a relevant resource type (1),
14	Size	0-n	Size (e.g., bytes, pages, inches, etc.) or duration (extent), e.g., hours, minutes, days, etc., of a resource	free text

	Entity	Property	Occurrence (see Comments)	Definition	Comment. E.g., allowed values
1					
2	Agent			Any entity carrying out actions with respect to the (Core) entities Catalogue, Datasets, Data Services and Distributions.	
3		Name	1-n	The main researchers involved in producing the data. Repeatable	may be a corporate/institution name
4		Title	0-n	A name or title by which a resource is known. May	
5		Publisher		The name of the entity that holds, releases, issues, or produces the resource. Owner in my eyes.	usually some institution
6		Publication year		The year when the data was or will be made publicly available.	e.g., when the embargo end at the record is released

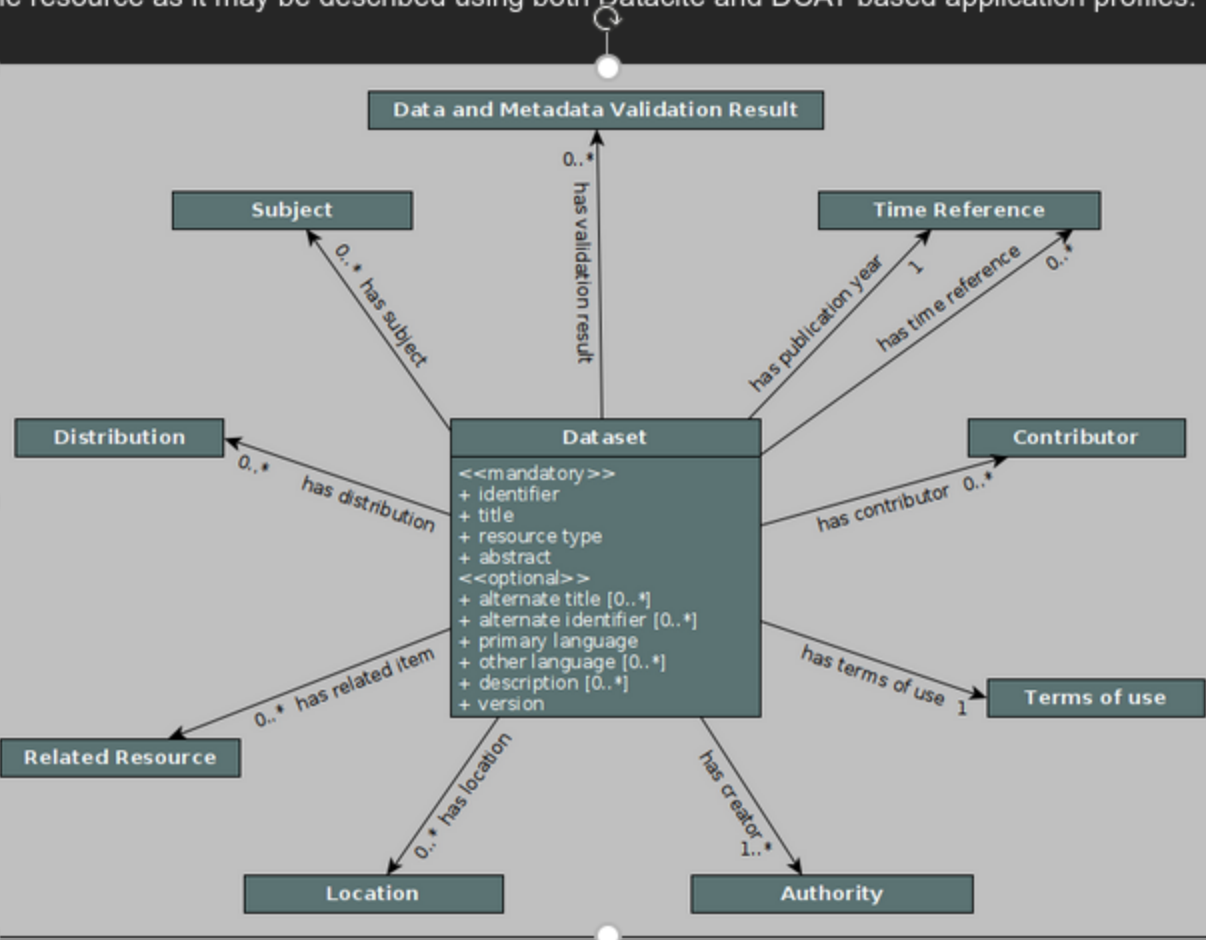


3. Classes and attributes description

This section summarizes all the classes in the conceptual model. For each class, it defines title, definition, description, corresponding classes from other metadata models, attributes and relations, their definition and description, multiplicity and stereotypes and possible mapping to upper level metadata models. Classes may also contain examples of XML and JSON encoding.

3.1 Class: Dataset

Class Dataset is the key concept in the Czech Core Metadata Model. This class corresponds to the resource as it may be described using both Dacite and DCAT based application profiles.



Definition source:	DCAT AP v3
Comment:	
Mappings:	DCAT 3: Dataset/title DCAT-AP-CZ 3: Datová sada / Název DataCite 4.5: Title without titleType
Usage notes:	<i>Title shall be unique, multiplicity is meant for other language versions. Use as DataCite Title without titleType, which is how Main title is defined.</i>
Examples:	<i>Data set with research samples of archeological site 123 collected on 1.2.2022.</i>
Value type:	xs:string
Multiplicity	1..n

Class: Dataset	
Property: Resource Type	
Definition:	A description of a resource
Definition source:	DataCite 10. ResourceType
Comment:	The resource type describes the specific type of a dataset according to the extended codelist from DataCite 4.5. DCAT AP has corresponding attribute type describing the type of dataset as a term from controlled vocabulary. This property may use types from both vocabularies.
Mappings:	DCAT 3: Dataset / type DCAT-AP-CZ 3: -none- DataCite 4.5: ResourceType
Usage notes:	Use subtypes of https://vocabularies.coar-repositories.org/resource_types/c_ddb1/ , possibli it will be extended for other useful values.
Examples:	<i>Observational data, https://vocabularies.coar-repositories.org/resource_types/FF4C-28RK</i>
Value type:	xs:string with xlink:href attribute
Multiplicity	1..n

Class: Dataset	
Property: Abstract	
Definition:	A brief description of the resource and the context in which the resource was created.

Dataspecer

Dataspecer packages ⓘ

↕ Recently modified first ⓘ ⌚ 🌐 en

Local models

Import New package Project Wizard

✓	📁	Czech Core Metadata Model	Directory	Created on 9/11/25	Changed on 9/17/25, 9:25 PM	d54a372a-b13d-479f-b8d8-2ce4c9a06b25	<>	🔗	+	⋮	
	⚙️	Generator configuration		Created on 9/11/25	Changed on 9/17/25, 9:25 PM	4395f9d4-8069-4186-97ac-0ab90b27f7cf				⋮	
>	📁	DCAT-AP 3.0.0 based on DCAT 3 DAP	Directory	Created on 9/11/25	Changed on 9/14/25, 11:46 AM	d54a372a-b13d-479f-b8d8-2ce4c9a06b25/6c88e100-c7d2-4009-81d3-2760026bbfa3	🔄	<>	🔗	+	⋮
	📖	Czech Core Metadata Model	Semantic model	Created on 9/11/25	Changed on 9/14/25, 11:46 AM	6b12e77a-aa55-4287-9040-782a3a77caab					⋮
>	📁	DataCite	Directory	Created on 9/11/25	Changed on 9/14/25, 11:46 AM	d54a372a-b13d-479f-b8d8-2ce4c9a06b25/6770a392-c67e-4186-bbb5-01fcb78e2d97	🔄	<>	🔗	+	⋮
>	📁	Czech Core Metadata Vocabulary	Directory	Created on 9/12/25	Changed on 9/14/25, 11:46 AM	d54a372a-b13d-479f-b8d8-2ce4c9a06b25/e126dee4-198b-4ef5-92e0-a2e3bc42c62b	🔄	<>	🔗	+	⋮
	📖	vCard Ontology	PIM Wrapper	Created on 9/11/25	Changed on 9/14/25, 11:46 AM	8yoba			🔄		⋮
	📖	Core Location Vocabulary 2.1.0	PIM Wrapper	Created on 9/11/25	Changed on 9/14/25, 11:46 AM	u35q6			🔄		⋮
	📖	ADMS - Asset Description Metadata Schema	PIM Wrapper	Created on 9/11/25	Changed on 9/14/25, 11:46 AM	ug1sk			🔄		⋮

Edit an attribute profile

Model:	Czech Core Metadata Model		
Profile of:	Resource URL +		
Name:	en +	resource URL	☒ Change in profile
Domain:	Resource		
IRI:	Absolute Relative Resource.resourceURL		
Specializations of:	+		
Definition:	en +	Resolvable URL representing the resource, preferably human readable.	☒ Change in profile
Usage note:	en + In case it is filled, it must be filled the same in c:iri.
If there are more resolvable IRIs, Resource URL shall link to human readable version, machine readable ID is always in c:iri.		
Domain cardinality:	☒ 0..* ☐ 0..1 ☐ 1..* ☐ 1..1		☒ Change in profile
Range:	xsd:anyURI		
Range cardinality:	☐ 0..* ☒ 0..1 ☐ 1..* ☐ 1..1		☒ Change in profile
External documentation URL:			
Mandatory level:	Undefined		

☒ Save changes

☒ Cancel

2.2.6 locator designator
2.2.7 locator name
2.2.8 post code
2.2.9 post name
2.2.10 post office box
2.2.11 thoroughfare
2.3 Agent
2.3.1 has contact point
2.3.2 has identifier
2.3.3 name
2.4 Alternate title
2.4.1 has alternate title type
2.4.2 title
2.5 Alternate title type
2.5.1 label
2.6 Application profile
2.6.1 label
2.7 Checksum
2.7.1 checksum value
2.7.2 uses algorithm
2.8 Checksum algorithm
2.9 Contact details
2.9.1 data box
2.9.2 email
2.9.3 has address
2.9.4 phone
2.10 Data service
2.10.1 endpoint URL
2.10.2 label
2.11 Dataset
2.11.1 has alternate title
2.11.2 has description
2.11.3 has distribution

Profiles

property [label](#) ([rdfs:label](#))

Definition: *A human-readable name for the subject.*

§ 2.11 Dataset

Profiled class [dcat:Dataset](#)

IRI(s)

IRI <https://model.ccmm.cz/research-data/Dataset>

Label Dataset

Definition A collection of data, published or curated by a single source, and available for access or download in one or more representations.

Profiles class [Dataset](#) ([dcat:Dataset](#))

Definition: *A collection of data, published or curated by a single source, and available for access or download in one or more representations.*

Backwards associations

- from domain [2.30 Metadata Record](#) → [2.30.4 describes](#)

2.11.1 has alternate title

Profiled relationship <https://model.ccmm.cz/vocabulary/ccmm#hasAlternateTitle>

IRI(s)

Dataset

Data structure for Dataset. A collection of data, published or curated by a single source, and available for access or download in one or more representations.

▾ Dataset (dataset)

-  ^ **is described by** (metadata_identification): [refers to] **Metadata Record** (metadata_record) [1..*]
-  ^ **has identifier** (identifier): [refers to] **Identifier** (identifier) [1..*]
- **version** (version): String [0..1]
- **title** (title): String [1..1]
-  ^ **has alternate title** (alternate_title): [refers to] **Alternate title** (alternate_title) [0..*]
-  ^ **qualified relation** (qualified_relation): [refers to] **Resource to agent relationship** (resource_to_agent_relationship) [2..*]
- **publication year** (publication_year): Gregorian year [1..1]
-  ▾ **has time reference** (time_reference): [refers to] Abstract class **Time reference** (time_reference) **with specializations** [1..*]
 - ▾ **specialization Time interval** (time_interval)
 -  ^ **has beginning** (beginning_time_instant): [refers to] **Time instant** (time_instant) [1..1]
 -  ^ **has end** (end_time_instant): [refers to] **Time instant** (time_instant) [1..1]
 - **date information** (date_information): Text [0..1]
 -  ^ **has date type** (date_type): [refers to] **Date type** (date_type) [1..1]
 - ▾ **specialization Time instant** (time_instant) +   
 -  ▾ **choice Container** [1..1]
 - **date time** (date_time): Date and time [1..1]
 - **date** (date): Date [1..1]

Distribution (distribution) with specializations [0..*]

- v **specialization Distribution - data service** (distribution_data_service)
 - **title** (title): Language tagged string [1..1]
 -  ^ **has access service** (access_service): [refers to] **Data service** (data_service) [0..*]
 -  ^ **conforms to specification** (specification): [refers to] **Application profile** (application_profile) [0..*]
 -  ^ **has documentation** (documentation): [refers to] **Documentation** (documentation) [0..*]
 - **description** (description): Text [0..*]
- v **specialization Distribution - downloadable file** (distribution_downloadable_file)
 - **title** (title): Language tagged string [1..1]
 -  ^ **access URL** (access_url): [refers to] **File** (file) [1..*]
 -  ^ **download URL** (download_url): [refers to] **File** (file) [0..*]
 -  ^ **conforms to schema** (conforms_to_schema): [refers to] **Application profile** (application_profile) [0..*]
 -  ^ **has format** (format): [refers to] **Format** (format) [1..1]
 -  ^ **media type** (media_type): [refers to] **Media Type** (media_type) [0..1]
 - **byte size** (byte_size): Integer [1..1]
 -  ^ **has checksum** (checksum): [refers to] **Checksum** (checksum) [0..1]
-  ^ **has validation result** (validation_result): [refers to] **Validation result** (validation_result) [0..*]
-  ^ **has provenance** (provenance): [refers to] **Provenance Statement** (provenance_statement) [0..*]

```

</xs:element>
<xs:element minOccurs="0" name="version" type="xs:string" sawsdl:modelReference="http://
  <xs:annotation>
    <xs:documentation xml:lang="en">
      version - The version indicator (name or identifier) of a resource.
    </xs:documentation>
    <xs:documentation xml:lang="es">
      El indicador de versión (nombre o identificador) del recurso.
    </xs:documentation>
    <xs:documentation xml:lang="it">
      L'indicatore di versione (un nome o un identificatore) di una risorsa.
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="title" type="xs:string" sawsdl:modelReference="http://purl.org/dc/term
  <xs:annotation>
    <xs:documentation xml:lang="en">
      title - A name given to the dataset.
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element minOccurs="0" maxOccurs="unbounded" name="alternate_title" type="ccmm:alterr
  <xs:annotation>
    <xs:documentation xml:lang="en">
      has alternate title
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element minOccurs="2" maxOccurs="unbounded" name="qualified_relation" type="ccmm:res
  <xs:annotation>
    <xs:documentation xml:lang="en">
      qualified relation - Link to a description of a relationship between dataset and a
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="publication_year" type="xs:gYear" sawsdl:modelReference="https://model
  <xs:annotation>
    <xs:documentation xml:lang="en">
      publication year - The year when the item was or will be made publicly available.
    </xs:documentation>
  </xs:annotation>

```




Model – what's inside

Metadata content

Metadata identification

Data identification

Distribution
info

Data quality

Descriptive
properties

Agent
relationships

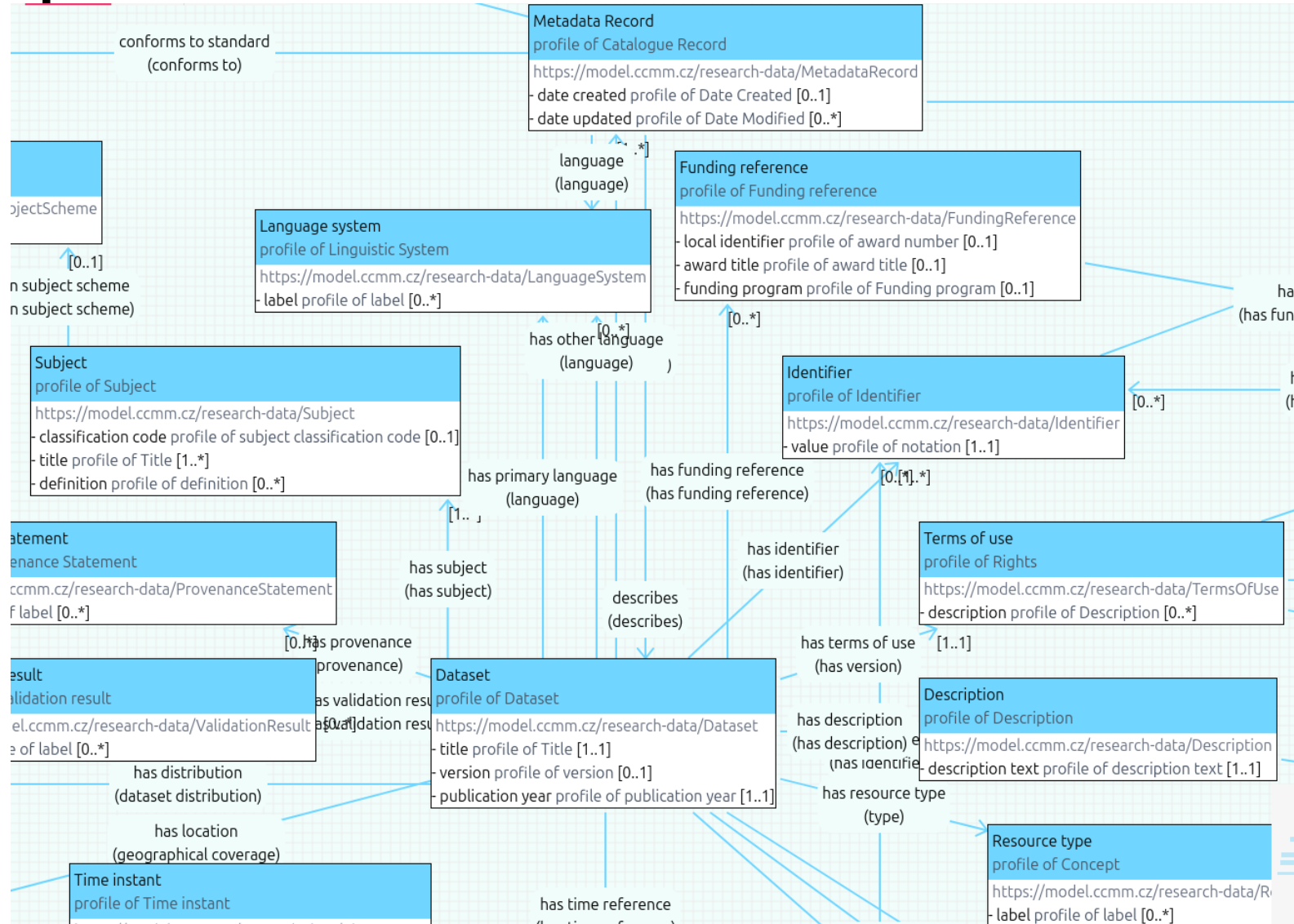
Administrative
properties

Distribution

Validation

Provenance

Conceptual model



Logical & structural model

Data structure editor

ARTIFACTS ▾

SET ROOT ELEMENT ▾

Dataset

Data structure for Dataset. A collection of data, published or curated by a single source, and available for access or download in one or more representations.

Dataset (dataset)

-  ^ **is described by** (metadata_identification): [refers to] **Metadata Record** (metadata_record) [1..*]
-  ^ **has identifier** (identifier): [refers to] **Identifier** (identifier) [1..*]
- **version** (version): String [0..1]
- **title** (title): String [1..1]
-  ^ **has alternate title** (alternate_title): [refers to] **Alternate title** (alternate_title) [0..*]
-  ^ **qualified relation** (qualified_relation): [refers to] **Resource to agent relationship** (resource_to_agent_relationship) [2..*]
- **publication year** (publication_year): Gregorian year [1..1]
-  ▾ **has time reference** (time_reference): [refers to] Abstract class **Time reference** (time_reference) **with specializations** [1..*]
 - ▾ **specialization Time interval** (time_interval)
 -  ^ **has beginning** (beginning_time_instant): [refers to] **Time instant** (time_instant) [1..1]
 -  ^ **has end** (end_time_instant): [refers to] **Time instant** (time_instant) [1..1]
 - **date information** (date_information): Text [0..1]
 -  ^ **has date type** (date_type): [refers to] **Date type** (date_type) [1..1]
 - ▾ **specialization Time instant** (time_instant)
 -  ▾ **choice Container** [1..1]
 - **date time** (date_time): Date and time [1..1]
 - **date** (date): Date [1..1]
 - **date information** (date_information): Text [0..1]
 -  ^ **has date type** (date_type): [refers to] **Date type** (date_type) [1..1]

Vocabularies & Identifiers

"My dataset"

<https://my-organization.cz/dataset/068456>

has publisher

"Czech technical university"

<https://ror.org/03kqpb082>

Access rights vocabulary

https://vocabularies.coar-repositories.org/access_rights/

Open access

https://vocabularies.coar-repositories.org/access_rights/c_abf2/

has access rights

value from codelist

Dataset

Root element for entire metadata record

Definition

A collection of data, published or curated by a single source, and available for access or download in one or more representations.

Profile

dcat:Dataset

Identifier

Preferably international identifier in widely recognized identification schema, e.g. DOI.

▼ **Dataset** (dataset)

- ↳ **is described by** (metadata_identification): [refers to] **Metadata Record** (metadata_record) [1..*]
- ↳ **has identifier** (identifier): [refers to] **Identifier** (identifier) [1..*]
- **version** (version): String [0..1]
- **title** (title): String [1..1]
- ↳ **has alternate title** (alternate_title): [refers to] **Alternate title** (alternate_title) [0..*]
- ↳ **qualified relation** (qualified_relation): [refers to] **Resource to agent relationship** (resource_to_agent_relationship) [2..*]
- **publication year** (publication_year): Gregorian year [1..1]
- ↳ **has time reference** (time_reference): [refers to] Abstract class **Time reference** (time_reference) **with specializations** [1..*]
- ↳ **has resource type** (resource_type): [refers to] **Resource type** (resource_type) [0..1]
- ↳ **has primary language** (primary_language): [refers to] **Language system** (language_system) [0..1]
- ↳ **has other language** (other_language): [refers to] **Language system** (language_system) [0..*]
- ↳ **has terms of use** (terms_of_use): [refers to] **Terms of use** (terms_of_use) [1..1]
- ↳ **has subject** (subject): [refers to] **Subject** (subject) [1..*]
- ↳ **has description** (description): [refers to] **Description** (description) [0..*]
- ↳ **has location** (location): [refers to] **Location** (location) [0..*]
- ↳ **has funding reference** (funding_reference): [refers to] **Funding reference** (funding_reference) [0..*]
- ↳ **has related resource** (related_resource): [refers to] **Resource** (resource) [0..*]
- ↳ **has distribution** (distribution): [refers to] Abstract class **Distribution** (distribution) **with specializations** [0..*]
- ↳ **has validation result** (validation_result): [refers to] **Validation result** (validation_result) [0..*]
- ↳ **has provenance** (provenance): [refers to] **Provenance Statement** (provenance_statement) [0..*]

Dataset

Title	Name given to the dataset.	1
Alternate title	Alternate title of the resource (e.g. subtitle or translations).	0..*
Version	Version indicator of a dataset.	0..*
Description	All additional information that does not fit to other categories.	0..*
Time reference	Instant or interval with date type, represented as date or date and time.	1..*
Language	Primary/other languages, reference to ISO vocabulary.	0..1/0..*
Resource type	Type of the dataset – value from COAR Resource types codelist.	0..1
Agent relationship	Relationship to person or organization in a given role (creator, publisher, contributor).	2..*
Terms of use	Overall conditions and rights regarding access and usage of dataset.	1
Related resource	Reference to the resource in any way related to the described dataset.	0..*
Location	Geographical area covered or in any other way related to the dataset.	0..*
Funding references	Reference to funding of dataset acquisition.	0..*
Subject	Subject, keyword, classification code, or key phrase describing the resource.	1..*
Distribution info	Specific representation of dataset in a form of downloadable file or service.	0..*
Validation result	Reference to the validation report.	0..*
Provenance	Statement about the lineage of dataset.	0..*
Date created	Date of the creation of dataset.	1
Metadata record	Description of the metadata record of the dataset.	1..*

Metadata record

Definition

Description of the metadata record of the dataset.

Profile

dcat:CatalogRecord

Identifier

Identifier of metadata record in the original repository. Preferably resolvable.

▼ Metadata Record (metadata_record)

- 🔗 ^ **language** (language): [refers to] **Language system** (language_system) [0..*]
- 🔗 ^ **qualified relation** (qualified_relation): [refers to] **Resource to agent relationship** (resource_to_agent_relationship) [1..*]
- **date updated** (date_updated): Date [0..*]
- **date created** (date_created): Date [0..1]
- 🔗 ^ **conforms to standard** (conforms_to_standard): [refers to] **Application profile** (application_profile) [0..*]
- 🔗 ^ **has original repository** (original_repository): [refers to] **Repository** (repository) [0..*]

Metadata record

Language	A language used in the textual metadata describing titles, descriptions of the metadata record.	0..1
Qualified relation	Relationship to person or organization responsible for the metadata.	1..*
Date updated	Date on which was metadata record changed.	0..*
Date created	Date on which was metadata record created.	0..*
Conforms to standard	An established standard to which metadata record conforms.	0..*
Original repository	Link to repository in which was metadata record originally published.	0..*

Resource to agent relationship

Definition	An association class for attaching additional information to a relationship between Resource and Agent.
Profile	ccmm:resourceToAgentRelationship
Identifier	Irrelevant, represents the association.
Usage note	Class is used to represent agent and its role to the resource.

Resource to agent relationship

Related agent	Specifies agent in a related to the dataset.	1
Role	Function of an agent with respect to the dataset.	1

✓ **Resource to agent relationship** (resource_to_agent_relationship)

🔧 ✓ **has related agent** (relation): [refers to] Abstract class **Agent** (agent) **with specializations** [1..1]

✓ **specialization Organization** (organization)

🔧 ^ **has identifier** (identifier): [refers to] **Identifier** (identifier) [0..*]

— **name** (name): String [1..1]

— **alternate name** (alternate_name): Text [0..*]

🔧 ^ **has contact point** (contact_point): [refers to] **Contact details** (contact_details) [0..*]

✓ **specialization Person** (person)

🔧 ^ **has identifier** (identifier): [refers to] **Identifier** (identifier) [0..*]

— **name** (name): String [1..1]

— **given name** (given_name): String [0..*]

— **family name** (family_name): String [0..*]

🔧 ^ **has contact point** (contact_point): [refers to] **Contact details** (contact_details) [0..*]

🔧 ^ **has affiliation** (affiliation): [refers to] **Organization** (organization) [0..*]

🔧 ^ **had role** (role): [refers to] **Resource agent role type** (resource_agent_role_type) [1..1]

Resource

Definition

Resource represents any resource, physical or digital, that is related to the described dataset.

Profile

rdfs:Resource

Identifier

Identifier of a the resource in a given schema.

Usage note

Class is used for description of the resource together with the type of relation, for which is used value from codelist of relation types. Examples: other related dataset, used methodology, instrument used for measurement, conference or conference paper etc...

▼ Resource (resource)

🔍 ^ **has identifier** (identifier): [refers to] **Identifier** (identifier) [0..*]

— **title** (title): String [0..1]

🔍 ^ **has alternate title** (has_alternate_title): [refers to] **Alternate title** (alternate_title) [0..*]

— **resource URL** (resource_url): URI, IRI, URL [0..1]

🔍 ^ **qualified relation** (qualified_relation): [refers to] **Resource to agent relationship** (resource_to_agent_relationship) [0..*]

🔍 ^ **has time reference** (time_reference): [refers to] Abstract class **Time reference** (time_reference) **with specializations** [0..*]

🔍 ^ **has resource type** (resource_type): [refers to] **Resource type** (resource_type) [0..1]

🔍 ^ **has resource relation type** (resource_relation_type): [refers to] **Resource relation type** (resource_relation_type) [0..1]

Resource

Title	Name given to the resource.	0..1
Alternate title	Alternate title of the resource (e.g. subtitle or translations).	0..*
Resource URL	Resolvable URL representing the resource, preferably human readable.	0..1
Agent relationship	Relationship to person or organization in a given role (creator, publisher, contributor) to the resource.	0..*
Time reference	Instant or interval with date type, represented as date or date and time.	0..*
Resource type	Type of the related resource	0..1
Relation type	Type of the relation of resource to the dataset.	0..1

Terms of use

Definition

Terms of use defines overall conditions and rights regarding access and usage of dataset.

Profile

datacite:rights

✓ Terms of use (terms_of_use)

 ^ **access rights** (access_rights): [refers to] **Access rights** (access_rights) [1..1]

 ^ **has license** (license): [refers to] **License Document** (license_document) [1..1]

— **description** (description): Text [0..*]

 ^ **has contact point** (contact_point): [refers to] Abstract class **Agent** (agent) **with specializations** [0..*]

Terms of use

Access rights	Statement about access to the dataset in a form of codelist value.	1
License	Reference to a legal document giving official permission to do something with a resource in a form of resolvable IRI.	1
Description	Descriptive text on details of rights and licensing.	0..*
Contact point	Contact details on someone relevant person to give more detailed description on terms of use.	0..*

Distribution

Definition

A specific representation of a dataset. A dataset might be available in multiple serializations that may differ in various ways, including natural language, media-type or format, schematic organization, temporal and spatial resolution, level of detail or profiles (which might specify any or all of the above).

Profile

dcat:Distribution

Identifier

Identifier of the dataset representation, for files is a link where it can be downloaded, for services it is an end-point.

Usage note

This represents a general availability of a dataset. It implies no information about the actual access method of the data, i.e., whether by direct download, API, or through a Web page. This is an abstract type. Use its subclasses to determine downloadable file or data service.

Subclasses

Distribution – data service, Distribution – downloadable file

- ✓ (distribution) Abstract class **Distribution** (distribution) with specializations
 - ✓ specialization **Distribution - data service** (distribution_data_service)
 - **title** (title): Language tagged string [1..1]
 - ✎ ^ **has access service** (access_service): [refers to] **Data service** (data_service) [0..*]
 - ✎ ^ **conforms to specification** (specification): [refers to] **Application profile** (application_profile) [0..*]
 - ✎ ^ **has documentation** (documentation): [refers to] **Documentation** (documentation) [0..*]
 - **description** (description): Text [0..*]
 - ✓ specialization **Distribution - downloadable file** (distribution_downloadable_file)
 - **title** (title): Language tagged string [1..1]
 - ✎ ^ **access URL** (access_url): [refers to] **File** (file) [1..*]
 - ✎ ^ **download URL** (download_url): [refers to] **File** (file) [0..*]
 - ✎ ^ **conforms to schema** (conforms_to_schema): [refers to] **Application profile** (application_profile) [0..*]
 - ✎ ^ **has format** (format): [refers to] **Format** (format) [1..1]
 - ✎ ^ **media type** (media_type): [refers to] **Media Type** (media_type) [0..1]
 - **byte size** (byte_size): Integer [1..1]
 - ✎ ^ **has checksum** (checksum): [refers to] **Checksum** (checksum) [0..1]

Distribution – data service

Title	Name given to the service.	1
Service	An end-point that gives access to the distribution of the dataset.	0..*
Conforms to specifications	An established standard to which data service conforms.	0..*
Documentation	Page or document about this distribution.	0..*
Description	Free text account of the data service.	0..*

Distribution – downloadable file

Title	Name given to the file.	1
Access URL	Web page contains information about how to get the dataset.	1..*
Download URL	A URL that is a direct link to a downloadable file in a given format.	0..*
Conforms to schema	An established document describing schema of provided data.	0..*
Format	File format of the distribution as a value from codelist.	0..*
Media type	Media type of the distribution from IANA codelist.	0..1
Byte size	Size of file in bytes.	1
Checksum	A value that allows the contents of a file to be authenticated.	0..1

Subject

Definition

Subject, keyword, classification code, or key phrase describing the resource.

Profile

datacite:subject

Identifier

Identifier of the subject within its schema or vocabulary, if applicable.

Usage note

Recommended approach is to use controlled list values, preferably in the form of IRI.

✓ **Subject** (subject)

- **title** (title): Language tagged string [1..*]
- **definition** (definition): Text [0..*]
- **classification code** (classification_code): String [0..1]
- 🔗 ^ **in subject scheme** (subject_scheme): [refers to] **Subject scheme** (subject_scheme) [0..1]

Subject

Title	Subject title.	1..*
Definition	Definition of a subject in a given context.	0..*
Classification code	Classification code of a subject n local system.	0..1
Subject scheme	Reference to the scheme in which is subject handled.	0..1



Metadata support



Source: <https://www.fourpaws.com/pets-101/cat-corner/cat-care-101>

Metadata support web

- Available at www.ccmm.cz
- Email support: metadata@techlib.cz



[Základní model CCMM](#) ▾ [O nás](#) [Novinky](#)

CCMM (Czech Core Metadata Model for Research Data) je základní metadatový model pro popis výzkumných dat v prostředí České republiky. Cílem CCMM je stanovit obecné prvky pro popis datových sad, které budou použitelné v různých datových repozitářích, a zajistit interoperabilitu základních metadat napříč obory.

Rychlé odkazy

[Základní model
CCMM](#)

[Řízené slovníky](#)

[Tvorba a správa
metadatových
profilů](#)

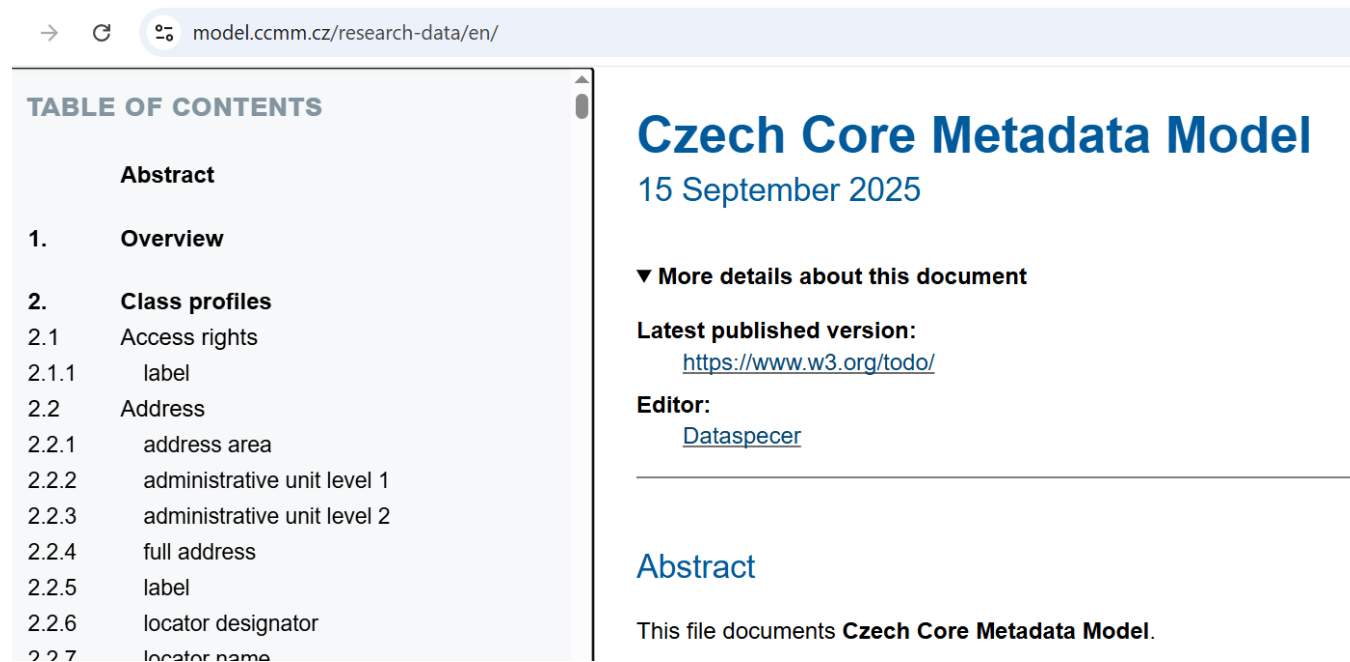
[FAQ](#)

Metadata support web

- Information hub for all types of resources related to CCMM
- Contains introductory info about the model, FAQ and news sections
- Refers to additional resources:
 - Model documentation: model.ccmm.cz
 - Controlled vocabularies curated by NTK: vocabs.ccmm.cz (to be deployed soon)
 - Test form for CCMM (in development)
 - Github repos for development

CCMM: specification & documentation

main source at model.ccmm.cz



The screenshot shows a web browser window with the address bar displaying model.ccmm.cz/research-data/en/. The page is titled "Czech Core Metadata Model" and dated "15 September 2025". On the left, a "TABLE OF CONTENTS" sidebar lists the following sections:

- Abstract
- 1. Overview
- 2. Class profiles
 - 2.1 Access rights
 - 2.1.1 label
 - 2.2 Address
 - 2.2.1 address area
 - 2.2.2 administrative unit level 1
 - 2.2.3 administrative unit level 2
 - 2.2.4 full address
 - 2.2.5 label
 - 2.2.6 locator designator
 - 2.2.7 locator name

The main content area on the right contains the following information:

- Czech Core Metadata Model**
- 15 September 2025
- ▼ More details about this document
- Latest published version:
<https://www.w3.org/todo/>
- Editor:
[Dataspercer](#)
- Abstract**
- This file documents **Czech Core Metadata Model**.

CCMM: specification & documentation

- Main source: model.ccmm.cz
- Contains the latest specification of the model generated by Dataspecer
 - Human readable part
 - Machine readable part (ttl, xsd files)
- Introduction to the specification structure

CCMM: controlled vocabularies

- <https://www.ccmm.cz/rizene-slovniky/>
- CCMM uses 12 controlled vocabularies:
 - 7 curated by NTK (in some cases borrowed from external sources): available in CSV format at <https://github.com/techlib/CCMM-controlled-vocab>, web-based browser to be deployed soon (SKOSMOS)
 - 5 maintained by external authorities

CCMM: development

- Landing page on github: <https://github.com/techlib/CCMM/wiki>
- Artefacts related to model development:
<https://github.com/techlib/CCMM>
 - TTL, XSD files
 - XML examples
 - ZIP file to be loaded into Dataspecer
- Controlled vocabularies for CCMM:
<https://github.com/techlib/CCMM-controlled-vocab>

CCMM: development & maintenance

- For requested changes, open an issue on github:
 - <https://github.com/techlib/CCMM/issues> (for model)
 - <https://github.com/techlib/CCMM-controlled-vocab/issues> (for controlled vocabularies maintained by NTK)
- If approved, the change will be added to the next milestone (currently 1.1.0 for the model)
- For requested changes of external vocabularies, contact the respective authority (IANA, ISO, Datacite,...)

Next steps

- CCMM new version 1.1.0
 - Publishing workflow of versioning CCMM
- More XML examples – based on catch-all repo data
- Methodology for work with CCMM
- Crosswalks for DataCite, OpenAIRE
- CCMM web
 - Tool for vocabularies management
 - more content