DSpace Entities Working Group

Community DSpace Entities data model requirements

This document presents the simple data model for having entities in DSpace. We choose few entities like: Publications (already supported by DSpace), People, Projects, Funding and Organizations. This document should be the baseline for a discussion taken place in DSpace Entities Group meeting.

Entity Relationships

It was defined the triple valued `metadatavalue:namespace:UUID`, for example: `University of Toronto:organization:123e4567-e89b-12d3-a456-426655440000`, to designate a relation to a different Entity. In this example a relation to the Organization entity.

Publications

DSpace already supports this type of entity, but some fields must be extended to allow the relation to other entities

Name	Description	Example
identifier.internal	DSpace internal ID - UUID	123e4567-e89b-12d3-a456-426655440000

dc.contributor.*	Relation with Entity People or Relation with Entity Organization	University of Toronto:organization:123e4567-e89b-12d3-a456-426655440000
dc.contributor.author	Relation with Entity People or Relation with Entity Organization	Doe, John :people:123e4567-e89b-12d3-a456-426655440000
dcterms.publisher	An entity responsible for making the resource available. Relation with Entity People or Relation with Entity Organization	University of Toronto:organization:123e4567-e89b-12d3-a456-426655440000
dc.relation	Relation with Entity Funding or Relation with Entity Project	PTDC/AGR-ALI/110062/2009:funding:123e4567-e89b-12d3-a456-426655440000

People

Information that describes People, people that is related in somehow with a publication (it could be the author, a contributor, a reviewer)

Name	Description	Example
identifier.internal	DSpace internal ID - UUID	123e4567-e89b-12d3-a456-426655440000
name.first	Author's first name	John
name.last	Author's last name	Doe
author.name	Author's known name, format: last, first	Doe, John
author.photo	Image file with the picture of the author/avatar	
identifier.orcid_id	Orcid identifier	0000-0002-7285-111X
identifier.researcher_id	Thomson Reuteurs Researcher ID	A-9999-1111
identifier.scopus_author_id	Scopus Author Id	23091392512
identifier.other	Other Author identifier	123456789

author:email	Email address (belongs to a complex field: email)	john.doe@example.org
identification.number	National Identifier number/Passport	
identification.type	Identification document type	
birthdate	Date of birth	1977/02/24
gender		
nationality		
language		
affiliation	Relation with Entity Organization	University of Toronto:organization:123e4567-e89b-12d3-a456-426655440000
telephone		
name.variant	Author name variants	Doe, J
specialization		
degree		
department	Enumeration with institutional departments list (should it be an Entity?)	
email.visibility	Boolean value. True if it's publicly visible, False otherwise (belongs to a complex field: email)	
site.name	Website name (belongs to a complex field: Site)	
site.url	Website URL (belongs to a complex field: Site)	
biography.title	biography title (belongs to a complex field: biography)	
biography.description	biography description (belongs to a complex field: biography)	
updateDate	Record date last update	2018/01/04

Projects

Name	Description	Example
identifier.internal	DSpace internal ID - UUID	123e4567-e89b-12d3-a456-426655440000
date.start		
date.end		
acronym		
owner	Relation with Entity People or Relation with Entity Organization	University of Toronto:organization:123e4567-e89b-12d3-a456-426655440000
title		Project A
description		
subject		
oa_mandated	Boolean value, true if Open Access Mandated or false otherwise	true
URL		
reference		

Funding

Name	Description	Example
identifier.internal	DSpace internal ID - UUID	123e4567-e89b-12d3-a456-426655440000
type	Enumeration: Grant, Contract, Award, Salary-Award **Grants** are something where you apply and get money	Grant

	based on what you say you will do **Contracts** are used when the principal purpose of the transaction is to acquire a specific service or end-product for the direct benefit of the promotor **Awards** are something you get for work you already did **Salary-Award** is defined as a competitive, peer-reviewed award that is offered by provincial, national, or international agencies and is paid as salary to the awardee/faculty member	
project	Relation with Entity Project	Project A:project:123e4567-e89b-12d3-a456-426655440000
title	Container for titles of the funding	
short-description	A short narrative (few sentences) describing the item	
amount	The funding amount	
url	Represents a URL for a website or web page related with the entry	
start-date	Start date for the funding	
end-date	End date for the funding	
identifier.other	Other funding identifier	
number		PTDC/2009
acronym		PTDC/AGR-ALI/110062/2009
references	Container for storing funding references	
contributors	Container for the contributors of a funding	

	A reference to an funder organization. When available, an organization will be tied to a disambiguated organization which uniquely identifies the organization Relation with Entity Organization	FCT:organization:123e4567-e89b-12d3-a456-426655440000
organization		
oa_mandated	Boolean value, true if Open Access Mandated or false otherwise	true

Organizations

Name	Description	Example
identifier.internal	DSpace internal ID - UUID	123e4567-e89b-12d3-a456-426655440000
acronym		FCT
name		Fundação para a Ciência e Tecnologia
alt-name	An alternative name for this organization	Fundacao para a Ciencia e Tecnologia
type	The range of allowed types is limited to the following terms: - Higher Education - Private non-profit - Company - Government - SME - Intergovernmental - Research Institute	
country		PT
identifier.ISNI		0000 0001 2169 9189
identifier.fundref	Crossref fundref ID	10.13039/501100001871
identifier.INSTID		

identifier.VAT		PT503904040
identifier.ringgold		123456789
URL		

References

Managing identities in DSpace-CRIS -
https://docs.google.com/document/d/1MEKlxx6gvRFq9RXoIEyoHs1viwqJQHC8ChThpli61D0

Deep dive into how DSpace-CRIS manages Authors and Author Profiles:
https://docs.google.com/document/d/1UEX2Tn38Zpz1qlr58cbJKNgymVR8xcPRHcZYHDfvxKA