info-eu-repo

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Document information

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Document History

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Abstract

The abstract describes what the application profile is about. It should contain a problem definition, the standards described by the application profile and the goal of the application profile.

Introduction

The namespace info:eu-repo is registered at http://info-uri.info
This name space is an authoritive placeholder for semantic terms, controlled vocabularies and identifiers.
By using this namespace all the terms used have a "web presence". Therefore it is no longer an arbitrary string, but contains meaning. This utilisation makes it future-proof.

The INFO URI namespace has been DISCONTINUED since 22 May 2010!! The website info-uri.info writes: "it has been deemed appropriate to close the registry to further "info" namespace registrations. The "info" registry will continue to be supported for the foreseeable future, although prudent adopters should consider migrating their resource identity requirements towards mainstream Web practices over the long term."

The already existing info:eu-repo namespace will NOT be DISCONTINUED. But will migrate toward mainstream Web practices applicable for Linked Data. Steps involve in prefixing the name space by the purl.org URL. Second to create OWL descriptions for each element in the namespace, making it possible for machines to understand the identified content.

The OWL of the info:eu-repo namespace could easily be maintained using this tool http://knoodl.com/ui/index/vocab/groups/infoeurepo . The http://purl.org/info:eu-repo/semantics/ could then be redirected to for example http://knoodl.com/ui/groups/infoeurepo/vocab/pubtypes/rdf/

The info:eu-repo URIs are persistent identifiers for non-informational resources. Such non-informational resources include classifications and "real world objects". One important category is concepts; concepts are classes or properties. For these a subclass of the info:eu-repo URIs is introduced: the info:eu-repo/semantics URIs. The info URIs are not resolvable which makes them ideal as persistent identifiers of abstract things like concepts. On the other hand there is a need to link the URIs to their semantics. In the Semantic Web this is done by a redirection to a RDF document in which the semantic relations of the object for which the URI stands are described. We propose a service that supports URIs of the following form: http://purl.org/info:eu-repo/... (which is the same as http://www.purl.org/info:eu-repo/... - default hostname is "www"). The URI http://purl.org/info:eu-repo/semantics URIs results in a 302 redirection to a RDF document in which the concepts for which the URIs stand are described.The namespace is an authoritive placeholder for semantic terms, controlled vocabularies and identifiers. By using this namespace all the terms used have a "web presence". Therefore it is no longer an arbitrary string, but contains meaning. This utilisation makes it future-proof. The purpose of the info:eu-repo registry is not to create a comprehensive, complete ontology. Instead its purpose is to fill holes. The registry introduces terms with which existing ontologies can be complemented and connected with each other.

The following types have been identified for controlled vocabularies and identifiers.

- http://purl.org/info:eu-repo/semantics/*
- http://purl.org/info:eu-repo/classification/*
- http://purl.org/info:eu-repo/date/*
- http://purl.org/info:eu-repo/grantAgreement/*
- http://purl.org/info:eu-repo/dai/*

Practice

The http://purl.org/info:eu-repo/semantics URIs will be linked to URIs that stand for concepts from other vocabularies. E.g., several of the terms from Eprints Type Vocabulary Encoding Scheme (http://www.ukoln.ac.uk/repositories/digirep/index/Eprints_Type_Vocabulary_Encoding_Scheme) are owl:sameAs terms from info:eu-repo/semantics:
<info:eu-repo/semantics/article> <owl:sameAs> <http://purl.org/eprint/type/JournalArticle>
In the case a concept is already defined in another vocabulary, the concept gets a eu-repo/semantics URI if
- the semantics of the concept is not described by that vocabulary
- the concept is relevant for repositories

A review board is needed for checking of these criteria. The maintainer of the registry should see to it that a requested term is checked through http://sameas.org. All owl:sameAs relations can be accessed via this service. On short term SURFShare is able to do this. On the long term KNAW might be able to do it.

Projects used for input

DRIVERGuidlines (DRIVER)
Project SamenInDelen (SamenInDelen)
NEEO Technical guidelines (NEEO)
Use of MODS for institutional repositories (SURFshare)
OpenAIRE Guidelines v2(OpenAIRE)

User community

It is important to know who is using this namespace. When changes and modifications happen, we need to be able to contact these people, so they can tell others about changes. This makes the propagation of change possible.

name	organisation	country	representing a larger community or project	role
Maurice Vanderfeesten	SURF	NL	SURF - Dutch academic information infrastructure	Initiator and keeper of the info:eu-repo namespace account
Rik van Sommeren	SURF	NL	EduStandard	staff member of bureau EduStandard
Peter van Wonderen	VU	NL	SURF - Dutch repository administrators community	keeper of the purl.org/info:eu-repo sub-namespace account (redirecting url's) chair of the Dutch repository administrators community
Benoit Pauwels	ULB	BE	NEEO	information specialist
Jochen Schirrwagen	UniBi	DE	DRIVER and OpenAIRE	information specialist
Maren Brodersen	D-NB	DE	n.a.	n.a.
Frank Waajen	WUR	NL	HBO-Kennisbank	information specialist in the HBO metadata working group

Vacancies: currently this wiki page with attachments needs a moderator. Volunteers are welcome. Send a mail to vanderfeesten@surf.nl or sommeren@surf.nl

Digital Author Identifier

Namespace		Type		Term		Description		Used by project
info:eu-repo	/	dai	/	(country /identifier)		where "country" is an ISO639-1 country label. and where "identifier" is the Identification number for the author in that country. It is preferred to use the ISNI (International Standard for Name Identifier) syntax		SURFshare, DRIVER, NEEO

Classification Schemes

Namespace		Type		Term		Description		Used by project
info:eu-repo	/	classification	/	ddc		Dewey Decimal Classification (DDC) http://www.oclc.org/dewey/		
info:eu-repo	/	classification	/	udc		Universal Decimal Classification http://www.udcc.org/http://www.udcc.org/		
info:eu-repo	/	classification	/	lcc		Library of Congress Classification http://www.loc.gov/catdir/cpso/lcco/http://www.loc.gov/catdir/cpso/lcco/		
info:eu-repo	/	classification	/	lcsh		Library of Congress Subject Headings (LCSH)		

info:eu-repo	/	classification	/	swd		Schlagwortnormdatei (SWD)		
info:eu-repo	/	classification	/	bicssc		Book Industry Communication - Standard Subject Categories http://www.bic.org.uk/7/BIC-Standard-Subject-Categories/		Open Access Publishing in European Networks (OAPEN) http://www.oapen.org/
info:eu-repo	/	classification	/	nbc		Nederlandse Basisclassificatie (Dutch Basic Classification) http://www.kb.nl/vak/basis/bc04.pdf		HBO-Kennisbank http://www.hbo-kennisbank.nl
info:eu-repo	/	classification	/	jel		Journal of Economic Literature (JEL) Classification System Articles in economics journals are usually classified according to the JEL classification codes. JEL code (sub)categories, including periodic updates, are referenced at Journal of Economic Literature (JEL) Classification System, published quarterly by the American Economic Association (AEA) http://www.aeaweb.org/journal/jel_class_system.php		Network of European Economists Online (NEEO) http://www.nereus4economics.info/network.html

XML Schema's and ontologies

The publicationTypes Schema can be referenced via a purl.org link, see below for available schema's.

publicationTypes schema (XSD)	http://purl.org/info:eu-repo/schemas/xmls/2010/04/15/publicationTypes.xsd
versionTypes schema (XSD)	http://purl.org/info:eu-repo/schemas/xmls/2010/05/07/versionTypes.xsd
info:eu-repo ontology (OWL/RDF) (currently only publicationTypes are supported)	http://purl.org/info:eu-repo/

Publication types

?

The XML schema can be found here using this link: http://purl.org/info:eu-repo/schemas/xmls/2010/04/15/publicationTypes.xsd
Publication type ontology: http://purl.org/info:eu-repo/
Usage for actionable reference to machine readable content: add http://purl.org/ as a prefix to the authoritative term e.g. http://purl.org/info:eu-repo/semantics/annotation

Namespace		Type		Term		Description		Used by project
info:eu-repo	/	semantics	/	article		article or an editorial published in a journal. (ed. Should this be specified specifically as an Scholarly article? Or does this list of publication types define a scholarly context by default?)		DRIVER SURF NEEO

info:eu-repo	/	semantics	/	bachelorThesis		lowest level of a thesis (normally after three years of study). See also http://en.wikipedia.org/wiki/Diplom		DRIVER SURF
info:eu-repo	/	semantics	/	masterThesis		intermediate level of a thesis (normally after four or five years of study). See also http://en.wikipedia.org/wiki/DiplomThis also refers to theses of the pre-Bologna period for degrees that are at the same level as what now is known as a master degree		DRIVER SURF
info:eu-repo	/	semantics	/	doctoralThesis		highest level of a thesis normally after more than four or five years of study. See also http://en.wikipedia.org/wiki/DiplomAlso everything equal and higher then a Doctoral thesis, that does not follow the "Bologna Convention", will be put in the category doctoralThesis. A free text field will Provide the opportunity to specify this further		DRIVER SURF
info:eu-repo	/	semantics	/	book		book or monograph		DRIVER SURF
info:eu-repo	/	semantics	/	bookPart		part or chapter of a book		DRIVER SURF
info:eu-repo	/	semantics	/	review		review of a book or article		DRIVER
info:eu-repo	/	semantics	/	conferenceObject		all kind of documents related to a conference, p.e. conference papers, conference reports, conference lecture, papers published in conference proceedings, conference contributions, reports of abstracts of conference papers and conference posters		DRIVER
info:eu-repo	/	semantics	/	lecture		lecture or presentation presented during an academic event, e.g., inaugural lecture. Excluded is a conference lecture (see conferenceItem)		DRIVER SURF
info:eu-repo	/	semantics	/	workingPaper		a preliminary scientific or technical paper that is published in a series of the institution where the research is done. Also known as research paper, research memorandum or discussion paper. **The difference with a preprint is that a workingPaper is published in a institutional series.** Examples are: working papers, research papers, research memoranda and discussion papers		DRIVER SURF
info:eu-repo	/	semantics	/	preprint		like a workingPaper this is a preliminary scientific or technical paper, **but it is not published in a institutional series.** The paper is intended to be published in a scientific journal or as a chapter in a book		DRIVER SURF
info:eu-repo	/	semantics	/	report		this is a more or less a rest category and covers commission reports, memoranda, external research reports, internal reports, statistical report, reports to funding agency, technical documentation, project deliverables etc. Excluded are conference reports (See conferenceItem)		DRIVER SURF
info:eu-repo	/	semantics	/	annotation		note to a legal judgmen		DRIVER SURF
info:eu-repo	/	semantics	/	contributionToPeriodical		contribution to a newspaper, weekly magazine or another non-academic periodical		DRIVER SURF
info:eu-repo	/	semantics	/	patent		patent		DRIVER SURF
info:eu-repo	/	semantics	/	other		especially meant for non-publication data like research data, audio-visual materials, animations etc.		DRIVER
info:eu-repo	/	semantics	/	conferenceObject		All kinds of documents related to a conference, e.g., conference papers, conference reports, conference lecture, papers published in conference proceedings, conference proceedings, conference contributions, reports of abstracts of conference papers and conference posters		DRIVER
info:eu-repo	/	semantics	/	reportPart		part of a report		SURF
info:eu-repo	/	semantics	/	bookReview		book review		SURF

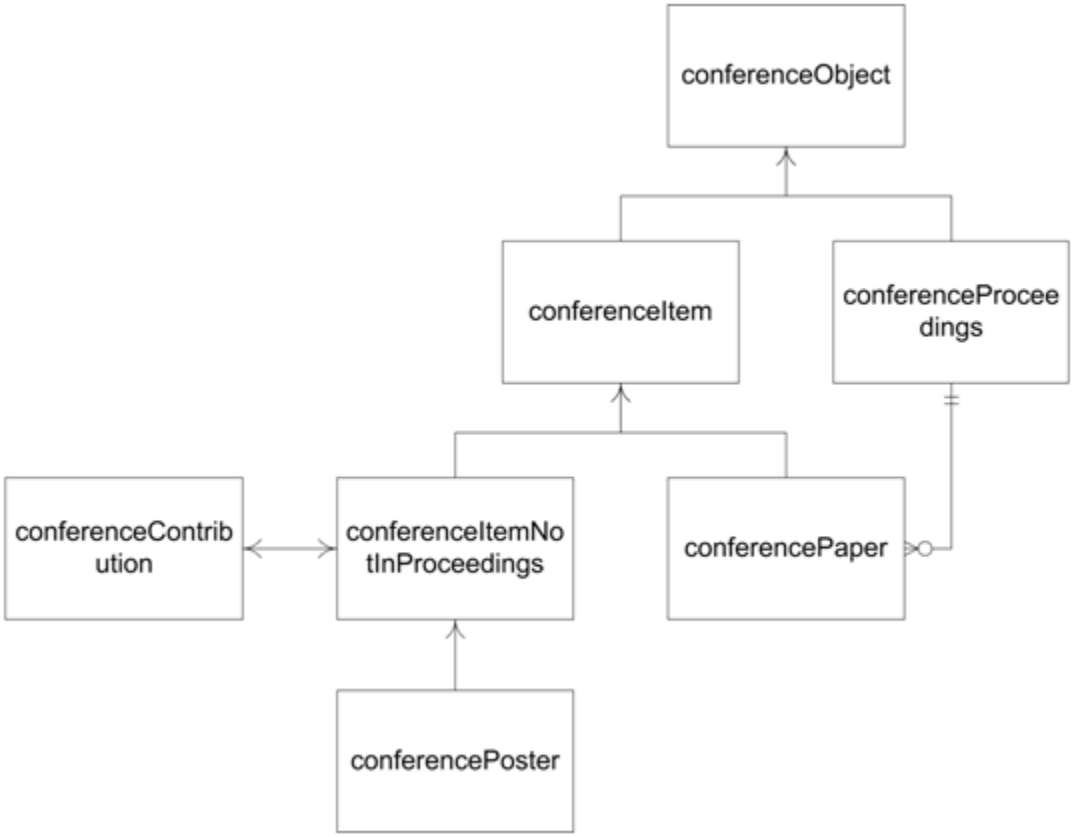
info:eu-repo	/	semantics	/	conferencePaper		paper published in conference proceedings		SURF
info:eu-repo	/	semantics	/	researchProposal		documentation for grant request		SURF
info:eu-repo	/	semantics	/	studentThesis		this refers to theses of the pre-Bologna period for degrees that are at the same level as what now is known as a master degree		SURF
info:eu-repo	/	semantics	/	technicalDocumentation		technical documentation		SURF
info:eu-repo	/	semantics	/	conferencePaper		paper published in conference proceedings		NEEO
info:eu-repo	/	semantics	/	conferencePoster		poster presented at a conference		NEEO
info:eu-repo	/	semantics	/	conferenceProceedings		the conference proceedings		NEEO
info:eu-repo	/	semantics	/	conferenceContribution		contribution to a conference but not published in a conference		NEEO
info:eu-repo	/	semantics	/	conferencePaper		paper published in conference proceedings		DARE
info:eu-repo	/	semantics	/	ConferenceItem		contribution to a conference but not published in a conference		UKOLN
info:eu-repo	/	semantics	/	ConferencePaper		contribution to a conference but not published in a conference		UKOLN
info:eu-repo	/	semantics	/	ConferencePoster		contribution to a conference but not published in a conference		UKOLN

conferenceObject of Driver includes all other conference-related publications. This can be used if none of the more specific publicationtypes comply.
Within conferenceObject are two types: conferenceProceedings as proposed by NEOO and ConferenceItem from the vocabulary of UKOLN. The type conferenceProceedings is used for authors who want to include the conference proceedings of which they are the editor. It is helpful if conference proceedings are contained in the repositories as compound objects. ConferenceItem is not really necessary, because there are more specific types who cover all sorts of ConferenceItems: ConferencePaper and conferenceContribution. The distinction between these two subtypes is the whether or not it's included in conference proceedings.
conferenceContribution has a subtype: conferencePoster. Not published readings for a conference are a conferenceObject, a ConferenceItem and a ConferenceContribution.
The class-subclass relations can be represented with the following hierarchy.

```
conferenceObject
   conferenceProceedings
   ConferenceItem
       conferencePaper = ConferenceItem in conferenceProceedings
       conferenceContribution = ConferenceItem not in conferenceProceedings
           conferencePoster
```

The term conferenceContribution is confusing. A more clear term is concerenteItemNotInProceedings. The proposal is to adopt conferenceObject, conferenceProceedings, conferencePaper, conferenceItemNotInProceedings, conferenceContribution (owl:sameAs conferenceNotInProceedings; the latter is the preferred term) and conferencePoster in the info:eu-repo/semantics namespace. If we specify in a more formal way the semantic relations, we can use ConferenceItem from the UKOLN vocabulary.

The new situation can be visualised as follows:



The **proposal** is to use conferenceProceedings, conferencePaper and conferencePoster within SURFshare. conferenceItemNotInProceedings can be used as rest category

Mappings with SWAP

Use for publication types identifiers from the *info:eu-repo/semantics/* namespace, see the first column of the following table. E.g., the URI for articles is *info:eurepo/semantics/article.* The second column contains the vocabulary of the Eprints Application Profile (also known as Scholarly Works Application Profile - SWAP) (http://www.ukoln.ac.uk/repositories/digirep/index/Eprints_Type_Vocabulary_Encoding_Scheme). This vocabulary is included only for comparison reasons.

info:eu-repo/semantics/	http://purl.org/eprint/type/	Description
annotation		note to a legal judgment
article	JournalArticle	article in a journal
bachelorThesis	Thesis (broader)	bachelor thesis
book	Book	book or monograph.

bookPart	BookItem	part or chapter of a book
bookReview	BookReview	book review
conferenceePaper	ConferenceePaper	paper published in conference proceedings
contributionToPeriodical		contribution to a newspaper, weekly magazine or another non-academic periodical
doctoralThesis	Thesis (broader)	PhD dissertation
researchProposal		documentation for grant request
lecture		Published lecture presented during an academic event, e.g., inaugural lecture
masterThesis	Thesis (broader)	
patent	Patent	patent
preprint	Report (broader)	like a research paper this is a preliminary scientific or technical paper, but it is **not** published in a institutional series. The paper is intended to be published in a scientific journal or as a chapter in a book.
report	Report (broader)	this is a more or less a rest category and covers commission reports, memoranda, conference reports, external research reports, internal reports, statistical report, reports to funding agency, etc.
studentThesis	Thesis (broader)	this refers to theses of the pre-Bologna period for degrees that are at the same level as what now is known as a master degree
technicalDocumentation		technical documentation
workingPaper	Working Paper	a preliminary scientific or technical paper that is published in a series of the institution where the research is done. Also known as research paper, research memorandum or discussion paper. The difference with a preprint is that a workingPaper is published in a institutional series.
	ScholarlyText	all the other types are a sub-classe of this type
	ConferenceItem	covers conference papers and conference posters
	ConferencePoster	poster presented at a conference
	JournalItem	a contribution to a journal; includes articles, editorials, conference reports, etc.
	NewsItem	news item
	SubmittedJournalArticle	the author's original manuscript submitted to and/or accepted by a journal. When not accepted it is a *info:eu-repo/semantics/preprint* or a *info:eu-repo/semantics/workingPaper* and when accepted it is a *info:eu-repo/semantics/article*

Mappings with Metis

There is a need to conduct a general agreement on the mapping result of species as proposed by the Metis Metis Group Results on the types of information: eu-repo/semantics. A first attempt is the following table.

⚠ resulttype nog vertalen?

CODE_OUTPUT	Resulttype	publicationType (info:eu-repo/semantics/)

10	annotatie	annotation
11	artikel in bundel - proceedings	conferencePaper
01	artikel in tijdschrift	article
02	boek / monografie	book
05	boekbespreking	bookReview
03	boekdeel - hoofdstuk	bookPart
04	boekredactie	
20	dissertatie	doctoralThesis
70	erkenning	
08	extern rapport	report
12	inaugurele rede	lecture
13	krantenartikel	contributionToPeriodical
30	octrooi	patent
50	overige resultaten	
60	relevante functies	
06	tijdschriftredactie - refereeschap	
40	voordracht - lezing (ongepubl)	
		bachelorThesis
		researchProposal
		masterThesis
		preprint
		studenThesis
		technicalDocumentation
		workingPaper
		conferencePoster

Access Rights

SAME AS the e-prints accessRights property in the Scholarly Works Application Profile

see: http://purl.org/eprint/accessRights/

Namespace		Type		Term		Description		Used by project
info:eu-repo	/	semantics	/	closedAccess		This type of access is the opposite of Open Access. Also referred to as "toll gated access". The main incentive her to gain access is by financial means.		NEEO, SURFshare
info:eu-repo	/	semantics	/	embargoedAccess		This type of access means the resource is Closed Access, until released for Open Access on a certain date. (this date can be specified elsewhere in the metadata) The incentives to embargo a resource has often to do with the fairness towards publisher to provide them an advantage as the exclusive first deliverers of knowledge. Also embargoes are used in sections of a Ph.D. thesis that are concerned with classified corporate information.		OpenAIRE

info:eu-repo	/	semantics	/	restrictedAccess		Open Access, but with restrictions. Often the Author wants to control the people who have access to for example a dataset. Access is provided in exchange for an e-mail address, to keep in touch with other people who are interested.		NEEO, SURFshare
info:eu-repo	/	semantics	/	openAccess		Open Access, this refers to access without restrictions, and without financial incentives. Access to the resource is gained directly, without any obstacles.		NEEO, SURFshare

Date Types and value

⚠ this is a suggestion

Namespace		Type		Term		Value (examples)		Description		Used by project
info:eu-repo	/	date	/	embargoEnd	/	2008-04-12		This Embargo End date tells the user on which date the embargo on the publication is released. Commonly the Access rights changes from the value closedAcceess to openAccess. A harvester is notified and can update this metadata when the modified date of the OAI-PMH record is updated aswell.		OpenAIRE
info:eu-repo	/	date	/	publication	/	2006-11-05		The official date of publication		
info:eu-repo	/	date	/	accepted	/	2004-02-06		Date of acceptance of the resource. - DC qualifier: http://dublincore.org/documents/dcmi-terms/#terms-date		DCMI
info:eu-repo	/	date	/	copyrighted	/	2005-11-12		Date of copyright.- DC qualifier: http://dublincore.org/documents/dcmi-terms/#terms-date		DCMI
info:eu-repo	/	date	/	submitted	/	2004-10-05		Date of submission of the resource. - DC qualifier: http://dublincore.org/documents/dcmi-terms/#terms-date		DCMI

Grant Agreement Identifiers

⚠ a vocabulary must be made for Funders and programs

⚠ for the time being EC-FP7 project information is exposed via OpenAIRE-OAI

Non verbose

Namespace		Type		Funder (example)		Program (example)		Identifier (examples)		Description		Used by project
info:eu-repo	/	grantAgreement	/	EC	/	FP7	/	12345				OpenAIRE

Verbose

Namespace		Type		Funder (example)		Program (example)		Identifier (examples)		Jurisdiction		ProjectName		ProjectAcronym	

info:eu-repo	/	grantAgreement	/	EC	/	FP7	/	12345	/	EU	/	name	/	acronym	

Alternative Identifier

Namespace		Type		Term		Scheme (example)		Identifier (example)		Description		Used by project
info:eu-repo	/	semantics	/	altIdentifier	/	doi	/	10.1234-789.1		alternative and persistent identifier of a resource		OpenAIREplus

Supported Schemes

Scheme	Description
ark	Archival Resource Key
arxiv	arXiv.org identifier
doi	Digital Object Identifier
hdl	Handle Identifier
isbn	International Standard Book Number
issn	International Standard Serial Number
pmid	PubMed ID
purl	Persistent Uniform Resource Locator
urn	Uniform Resource Name
wos	Web of Science accession number

Reference Identifier

Namespace		Type		Term		Scheme (example)		Identifier (example)		Description		Used by project
info:eu-repo	/	semantics	/	reference	/	urn	/	urn:nbn:de:123-4567890		reference identifier of a publication mentioned in a given publication resource		OpenAIREplus

Supported Schemes

Scheme	Description
ark	Archival Resource Key
arxiv	arXiv.org identifier
doi	Digital Object Identifier
hdl	Handle Identifier
isbn	International Standard Book Number
issn	International Standard Serial Number

pmid	PubMed ID
purl	Persistent Uniform Resource Locator
url	Uniform Resource Locator
urn	Uniform Resource Name
wos	Web of Science accession number

Dataset Identifier

Namespace		Type		Term		Scheme (example)		Identifier (example)		Description		Used by project
info:eu-repo	/	semantics	/	dataset	/	doi	/	10.1234-567		reference identifier of a dataset related or described in a given publication resource		OpenAIREplus

Supported Schemes

Scheme	Description
ark	Archival Resource Key
doi	Digital Object Identifier
hdl	Handle Identifier
purl	Persistent Uniform Resource Locator
url	Uniform Resource Locator
urn	Uniform Resource Name

Versions

The XML schema can be found here using this link: http://purl.org/info:eu-repo/schemas/xmls/2010/05/07/versionTypes.xsd | NOTE: only the types are included used by the DRIVER project

Namespace		Type		Term		Description		Used by project
info:eu-repo	/	semantics	/	publishedVersion				NEEO
info:eu-repo	/	semantics	/	authorVersion				NEEO
info:eu-repo	/	semantics	/	draft		Early version circulated as work in progress		DRIVER
info:eu-repo	/	semantics	/	submittedVersion		The version that has been submitted to a journal for peer review		DRIVER
info:eu-repo	/	semantics	/	acceptedVersion		The author-created version that incorporates referee comments and is the accepted for publication version		DRIVER
info:eu-repo	/	semantics	/	publishedVersion		The publisher created published version		DRIVER

info:eu-repo	/	semantics	/	updatedVersion		A version updated since publication		DRIVER

Object types

Namespace		Type		Term		Description		Used by project
info:eu-repo	/	semantics	/	objectFile				SURFshare, DRIVER, NEEO
info:eu-repo	/	semantics	/	humanStartPage				SURFshare, DRIVER, NEEO
info:eu-repo	/	semantics	/	descriptiveMetadata				SURFshare, DRIVER, NEEO
info:eu-repo	/	semantics	/	publication				SamenInDelen
info:eu-repo	/	semantics	/	dataset				SamenInDelen
info:eu-repo	/	semantics	/	enhancedObjectFile				SamenInDelen
info:eu-repo	/	semantics	/	DDIInstance				SamenInDelen
info:eu-repo	/	semantics	/	SPSSdatafile				SamenInDelen
info:eu-repo	/	semantics	/	SPSSsetupfile				SamenInDelen
info:eu-repo	/	semantics	/	other				SamenInDelen
info:eu-repo	/	semantics	/	datafile				SamenInDelen

Namespace		Type		Term		Description		Used by project
info:eu-repo	/	semantics	/	closedAccess				NEEO, SURFshare

Date of submission of the resource.