

# info-eu-repo

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## Document information

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## Document History

Date	Version	Owner	Changelog	PDF

## 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 authoritative 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](http://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 authoritative 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/semantics/*)
- [http://purl.org/info:eu-repo/classification/\\*](http://purl.org/info:eu-repo/classification/*)
- [http://purl.org/info:eu-repo/date/\\*](http://purl.org/info:eu-repo/date/*)
- [http://purl.org/info:eu-repo/grantAgreement/\\*](http://purl.org/info:eu-repo/grantAgreement/*)
- [http://purl.org/info:eu-repo/dai/\\*](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](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://p://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

[DRIVERGuidelines](#) (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](mailto:vanderfeesten@surf.nl) or [sommeren@surf.nl](mailto: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 <a href="#">ISNI</a> (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) <a href="http://www.oclc.org/dewey/">http://www.oclc.org/dewey/</a>	
info:eu-repo	/ classification	/ udc	Universal Decimal Classification <a href="http://www.udcc.org/http://www.udcc.org/">http://www.udcc.org/http://www.udcc.org/</a>	
info:eu-repo	/ classification	/ lcc	Library of Congress Classification <a href="http://www.loc.gov/catdir/cpsolcco/http://www.loc.gov/catdir/cpsolcco/">http://www.loc.gov/catdir/cpsolcco/http://www.loc.gov/catdir/cpsolcco/</a>	
info:eu-repo	/ classification	/ lcsch	Library of Congress Subject Headings (LCSH)	

info:eu-repo	/	class ificati on	/	swd	Schlagwortnormdatei (SWD)	
info:eu-repo	/	class ificati on	/	bicssc	Book Industry Communication - Standard Subject Categories <a href="http://www.bic.org.uk/7/BIC-Standard-Subject-Categories/">http://www.bic.org.uk/7/BIC-Standard-Subject-Categories/</a>	Open Access Publishing in European Networks (OAPEN) <a href="http://www.oapen.org/">http://www.oapen.org/</a>
info:eu-repo	/	class ificati on	/	nbc	Nederlandse Basisclassificatie (Dutch Basic Classification) <a href="http://www.kb.nl/vak/basis/bc04.pdf">http://www.kb.nl/vak/basis/bc04.pdf</a>	HBO- Kennisbank  <a href="http://www.hbo-kennisbank.nl">http://www.hbo-kennisbank.nl</a>
info:eu-repo	/	class ificati on	/	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) <a href="http://www.aeaweb.org/journal/jel_class_system.php">http://www.aeaweb.org/journal/jel_class_system.php</a>	Network of European Economists Online (NEEO) <a href="http://www.nereus4economics.info/network.html">http://www.nereus4economics.info/network.html</a>

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

## 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	/	sema ntics	/	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?)	DRIVE R SURF NEEO

info:eu-repo	/	semantics	/	ba ch el or Th e s i s	lowest level of a thesis (normally after three years of study). See also <a href="http://en.wikipedia.org/wiki/Diplom">http://en.wikipedia.org/wiki/Diplom</a>	DRIVER SURF
info:eu-repo	/	semantics	/	ma st er Th e s i s	intermediate level of a thesis (normally after four or five years of study). See also <a href="http://en.wikipedia.org/wiki/Diplom">http://en.wikipedia.org/wiki/Diplom</a> This 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	/	do cto ral Th e s i s	highest level of a thesis normally after more than four or five years of study. See also <a href="http://en.wikipedia.org/wiki/Diplom">http://en.wikipedia.org/wiki/Diplom</a> Also everything equal and higher than 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	/	book Part	part or chapter of a book	DRIVER SURF
info:eu-repo	/	semantics	/	review	review of a book or article	DRIVER
info:eu-repo	/	semantics	/	confe rence Obj e c t	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 conferenceltem)	DRIVER SURF
info:eu-repo	/	semantics	/	work ing Pa per	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. <b>The difference with a preprint is that a workingPaper is published in a institutional series.</b> Examples are: working papers, research papers, research memoranda and discussion papers	DRIVER SURF
info:eu-repo	/	semantics	/	pre pri nt	like a workingPaper this is a preliminary scientific or technical paper, <b>but it is not published in a institutional series.</b> 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 conferenceltem)	DRIVER SURF
info:eu-repo	/	semantics	/	annot ation	note to a legal judgment	DRIVER SURF
info:eu-repo	/	semantics	/	contri butio n To P eriodi cal	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	/	confe rence Obj e c t	All kinds of documents related to a conference, e.g., 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	/	repor t Part	part of a report	SURF
info:eu-repo	/	semantics	/	book Review	book review	SURF

info:eu-repo	/	sema ntics	/	confe rence Paper	paper published in conference proceedings	SURF
info:eu-repo	/	sema ntics	/	resea rchPr opos al	documentation for grant request	SURF
info:eu-repo	/	sema ntics	/	stude ntThe sis	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	/	sema ntics	/	techn icalD ocum entati on	technical documentation	SURF
info:eu-repo	/	sema ntics	/	confe rence Paper	paper published in conference proceedings	NEEO
info:eu-repo	/	sema ntics	/	confe rence Poster	poster presented at a conference	NEEO
info:eu-repo	/	sema ntics	/	confe rence Proc eedin gs	the conference proceedings	NEEO
info:eu-repo	/	sema ntics	/	confe rence Contr ibution	contribution to a conference but not published in a conference	NEEO
info:eu-repo	/	sema ntics	/	confe rence Paper	paper published in conference proceedings	DARE
info:eu-repo	/	sema ntics	/	Conf erenc eltem	contribution to a conference but not published in a conference	UKOLN
info:eu-repo	/	sema ntics	/	Conf erenc ePap er	contribution to a conference but not published in a conference	UKOLN
info:eu-repo	/	sema ntics	/	Conf erenc ePost er	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 NEEO 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 `conferenceltemNotInProceedings`. The proposal is to adopt `conferenceObject`, `conferenceProceedings`, `conferencePaper`, `conferenceltemNotInProceedings`, `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 `Conferenceltem` from the UKOLN vocabulary.

The new situation can be visualised as follows:



The **proposal** is to use `conferenceProceedings`, `conferencePaper` and `conferencePoster` within SURFshare. `conferenceltemNotInProceedings` 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:eu-repo/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](http://www.ukoln.ac.uk/repositories/digirep/index/Eprints_Type_Vocabulary_Encoding_Scheme)). This vocabulary is included only for comparison reasons.

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

<b>bookPart</b>	BookItem	part or chapter of a book
<b>bookReview</b>	BookReview	book review
<b>conferencePaper</b>	ConferencePaper	paper published in conference proceedings
<b>contributionToPeriodical</b>		contribution to a newspaper, weekly magazine or another non-academic periodical
<b>doctoralThesis</b>	Thesis (broader)	PhD dissertation
<b>researchProposal</b>		documentation for grant request
<b>lecture</b>		Published lecture presented during an academic event, e.g., inaugural lecture
<b>masterThesis</b>	Thesis (broader)	
<b>patent</b>	Patent	patent
<b>preprint</b>	Report (broader)	like a research paper this is a preliminary scientific or technical paper, but it is <b>not</b> published in a institutional series. The paper is intended to be published in a scientific journal or as a chapter in a book.
<b>report</b>	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.
<b>studentThesis</b>	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
<b>technicalDocumentation</b>		technical documentation
<b>workingPaper</b>	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.
	Scholarly Text	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 <i>info:eu-repo/semantics/preprint</i> or a <i>info:eu-repo/semantics/workingPaper</i> and when accepted it is a <i>info:eu-repo/semantics/article</i>

## 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
		studentThesis
		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.	NEDO, SURFs hare
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.	OpenAI RE



info:eu-repo	/	grant Agreement	/	EC	/	FP7	/	12345	/	EU	/	name	/	acronym	
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## 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	OpenAIRE plus

## 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	OpenAI REplus

## 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
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## 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.