

Metadata for the Publication and Citation of Scientific Primary Data

Version 3.0

1 Overview

The following table contains the metadata kernel for the registration of scientific primary data.

The attributes 3,4,5 are DOI-Kernel elements, but have different internal names in our metadata set, for internal reasons.(see the example file).

Note attributes with an * are changeable (for internal use only)

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2 Metadata table

<i>No</i>	<i>XML element</i>	<i>Definition</i>	<i>Dublin Core.mapping</i>	<i>Format (datatype)</i>	<i>Occ</i>	<i>Allowed Values, examples, other constraints</i>	<i>origin</i>
1	DOI	A DOI that identifies a resource.	none	DOI	1	Any DOI	DOI-Kernel
2*	resourceIdentifier	An identifier other than the DOI applied to a resource.	none	string	0-n	Any alphanumeric string which is unique within its domain of issue: for example, an ID from a legacy scheme or from the internal database of the resource's publisher. A resourceIdentifier is to be declared if one exists: some resources may have no Identifier other than a DOI.	DOI-Kernel
2.1*	[type]	The type of the resourceIdentifier.	none	iDD Term	1	See Allowed iDD Values for Kernel elements. This is an open list so new types may be registered at any time by an RA.	DOI-Kernel
3	creator	The main researchers involved working on the data, or the authors of the publication in order.	dc:creator	first name(s) middle name(s) last name(s)	1-n	<i>John T.@Smith Robertson</i>	This entry is mapped to the DOI-Kernel : principalAgent – agentName with [type] <i>PrincipalName</i> and agentRole <i>author</i>
4	contributor	The institution where the data was collected or created. Or any institution involved in the process, apart from the publisher	dc:contributor		0-n		internal
5	publisher	The institution which	dc:publisher	Full name with	1-n	<i>GeoForschungsZentrum Potsdam(GFZ)</i>	This entry is mapped to the

		submitted the work		(Abbreviation)		<i>World Data Center Climate(WDCC)</i>	DOI-Kernel : principalAgent – agentName with [type] <i>OrganizationName</i> and agentRole <i>publisher</i>
6	title	A name or title by which a resource is known.	dc:title	string	1		This entry is mapped to the DOI-Kernel resourceName with [type] <i>Title</i> and [primaryLanguage] <i>english</i>
7	language	Primary language of the resource, if not english	dc :language	de, en	0-1	ISO 639-1 code values.	internal
8	structuralType	The primary structural type of a resource	none	iDD Term	1	<i>Digital</i> (fixed value)	DOI-Kernel
9*	Mode	The principal sensory mode(s) in which a resource is intended to be perceived.	none	iDD Term	1-3	<i>Abstract</i> (suggested for data) See Allowed iDD Values for Kernel elements. mode identifies only the principal intended modes of perception of a resource, recognizing that most physical resources are perceivable with all five senses, but that some of these perceptions may be trivial: for example, an ordinary CD or printed book may be touched or smelled, but these are supplementary or incidental to its intended function as a content carrier. For a Braille book, however, touch would be a principal mode, as is smell for a perfume.	DOI-Kernel
10*	resourceType	The general type of a	none	iDD Term	1	<i>Dataset</i> (suggested for data)	DOI-Kernel

		resource				See Allowed iDD Values for Kernel elements. This is an open list so new types may be registered at any time by an RA. resourceType typically describes the abstract nature of the content of a resource, irrespective of its structural type. For example, a resource may have the resourceType “JournalArticle” and a structural type of Abstraction, Digital or Physical. resourceType may, however, be extended to include format and genre elements: for example “ClassicalAudioCD” or “MedicalJournalArticlePDF” would be acceptable resourceType values if an RA wished to define and register them. resourceTypes may be defined at any level of granularity that is useful to an RA.	
11	registrationAgency	The DOI Registration Agency responsible for issuing a Kernel Declaration.		DOI prefix	1	10.1594 (fixed value)	DOI-Kernel
12*	issueDate	The Date on which the Kernel Declaration was made.		Date	1	ISO 8601 format (YYYYMMDD). Will be set by Registration agency!	DOI Kernel
13*	issueNumber	The sequence number of this Declaration in the series of Kernel Declarations for this DOI.		Integer	1	First issue=1. If a Kernel Declaration for a specific DOI is re-issued, this number should be incremented by one. Will be set by Registration agency!	DOI Kernel
14*	creationDate	Principal Date the work was created. E.g. the end of the measure	dcterms:created	date	0-1	ISO 8601 format (YYYYMMDD).	internal

		for data or the finishing of the writing for publications					
15	publicationDate	Date the work was released for publication. If the release date is a period, and the period has already ended, the end date of this period should be instered here.	dc:date	date	0-1	ISO 8601 format (YYYYMMDD).	internal
16	startPublicationDate	If the release date is a period, the starting date of this period should be instered here.	Dc:date	date	0-1	ISO 8601 format (YYYYMMDD).	internal
17*	description	All additional information that does not fit in any of the other categories	dc:description	string	1	If linebreak is important for this description, include 	internal
18	publicationPlace	Place the resource has been published		string	1	<i>Hamburg</i>	internal
19	size	Size of the resource Empty, if data harvesting is not finished.	dcterms:extend	complex	0-n	amount of data, number of pages, bytesize, written in a structured form:	internal
19.1	value			number	1	<i>10.000</i>	internal
19.2	unit			vocabulary	1	<i>Bytes</i> (see StructureUnitTypes)	internal
20*	format	Technical format of	dc :format	string	1-n	Use e.g Numbers, MIME-Types, or	internal

		the resource				internal formats	
21	edition	Edition number of the resource	none	number	1-n	If the primary data set has changed the edition number increases.	internal
22*	relatedIdentifiers	Identifiers of related resources	dc :source	complex	0-n	.	internal
23.1 *	relatedIdentifier	The Identifier of the related resource with a type definition		string	1		internal
23.2 *	[relationType]			vocabulary	1-n	If the resource is a dataset, the relation to the work that uses this data should be: <i>isCitedBy</i> , If the resource is a new edition of an old dataset: <i>isNewVersionOf</i> , If the resource is an old edition of a newer dataset: <i>isOldVersionOf</i> , If the resource is compiled in another resource: <i>isCompiledBy</i> If the identical dataset is also published at another research agency: <i>isAlsoPublishedAs</i>	internal
24	discipline	Scientific discipline for the primary data.		vocabulary	1	<i>earthScience</i>	internal

Suggested Kernel elements

mode		
Abstract	Of a resource which is not directly perceivable with any of the five human senses.	
Audio	Of a resource which is principally intended to be listened to.	
Visual	Of a resource which is principally intended	

	to be looked at.	
AudioVisual	Of a resource which is principally intended to be listened to and looked at simultaneously.	
Restricted	Of a resource which is described by a restricted DOI Application Profile.	The Restricted mode may only be used for resources belonging to Restricted ApplicationProfiles and for which metadata interoperability is not a requirement.
resourceType		
Dataset		
JournalArticle		
ConferenceProceeding		
Book		
BookChapter		
NewspaperArticle		
Image		
Map		
Article		
structureUnitTypes		
Bytes		
Datasets		
Numbers		
Pages		
Experiments		
Datapoints		
relationType		
isCitedBy		
isNewVersionOf		
isOldVersionOf		
isEditionWith		
isCompiledBy		
isAlsoPublishedAs		