**DEff** Denmark's Electronic Research Library

# **DDF-MXD**

# **Danish Research Database**

# **Metadata Exchange Format for Documents**

3 August 2015

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# 0.1 Preface to version 1.0.0

Version 1 of the exchange format for documents was developed as an initiative of the DEFF E-publishing Programme Area.

The primary motivation was to contribute to the organisation and dissemination of Danish research by establishing an infrastructure, where DDF, the Danish Research Database, automatically may harvest local research databases and institutional repositories and build a national database and search engine in an efficient and quality assured fashion.

The format may well prove useful in a number of other use-cases related to research publications and documentation.

The work started in August 2004 and has entailed analysis of the current formats of DDF and the emerging institutional repositories of Danish universities as well as the ongoing university initiative to standardise the categorisation of research documents in order to produce better research output statistics.

The standards for XML and XML-schema used as basis for this document and schema are: - XML 1.0 : Third Edition - http://www.w3.org/TR/2004/REC-xml-20040204/ - XML Schema : Second Edition (Part 1 & 2) - http://www.w3.org/TR/xmlschema-1/ and http://www.w3.org/TR/xmlschema-2/

The current document metadata of the Danish Research Database will be converted to the exchange format shortly.

Similar formats for the exchange of metadata for projects, organisations and persons will follow.

Version 1.0.0, 8 November, 2005

Mogens Sandfær, editor

# 0.2 Preface to version 1.1.0

A new release (v.1.1.0) of the MXD-documentation was decided upon the first experience and usage of the initial corresponding schema. Some fields had been interpreted too restrictive in the schema and thus needed relaxations to comply better with real data. Additionally an extra document type as well as a couple of new supplier names and person roles have been added to the format. We refer further to the changelog from the schema for details in the changes.

Please note that there has been an equivalent new release of the schema and the corresponding stylesheet for sorting elements - more information available on this in section 2.

Version 1.1.0 18 May, 2006

Liv Fugl, editor

Version 1.3.1.1

# 0.3 Preface to version 1.2.0

Version 1.2.0 of the MXD-documentation has been released to comply with the demands of the DASTI (Danish Agency for Science, Technology and Innovation) Bibliographic Research Indicator model. Thus elements for unique identification of authors, publishing channels and national research areas have been added in addition to a required create date for each document and type definitions for ISSN and ISBN. Furthermore MXDs document types have been modified to handle the new requirements.

In addition to the demands of DASTI the publication element in the MXD-schema has been expanded with a digital object container that handles the increasing number of full-text documents in managed institutional repositories. Moreover, a few elements and minor changes to the publication container and updates to the enumerated lists have been added. In particular an access attribute to the URI element has been added, to make it easier to promote Open Access in the Danish National Research Database. Changes are explained in detail in the changelog from the schema.

The version number definition has been changed, such that adding backward-compatible changes (like new non-mandatory elements) does not require a new namespace definition in the document.

The version numbering of this format follows a 3-digit numbering scheme, where digit:

- 1. Represents a major version an increment would require a thorough study of the new version and subsequent changes of style sheets and other programs. Changes in major version always imply both a new release of the schema, AND a change in the namespace declaration. The new version of the schema will therefore NOT validate older documents.
- 2. Represents a revision, which modifies some definitions of the previous version in a way that is not backward compatible with older version. An increment of the revision number would most likely require the update of XSLT style sheets for presentation or similar purposes.

Changes in revision always imply both a new release of the schema, AND a change in the namespace declaration. The new version of the schema will therefore NOT validate older documents.

3. Represents a minor revision, which either only contains changes in wording or clarifications, OR expands the vocabulary of certain elements, OR which adds new non-mandatory data elements in a way which still validates older documents with the same version and revision.

An increment in minor revision number may require updates of XSLT style sheets and similar in order to reflect newly-added elements.

Version 1.2.0 19 June, 2008

Mikael K. Elbæk, editor

# 0.4 Preface to version 1.2.1

Version 1.2.1 of the MXD-documentation has been released to comply with the additional demands of the DASTI (Danish Agency for Science, Technology and Innovation) Bibliographic Research Indicator model. Following the first release (1.2.0) complying with the Bibliographic Research Indicator model there has been identified a need to add the DASTI publisher number in the publication elements report and in\_report.

Moreover the dataprovider READ - Arkitekt- og designskolerne has been added in the documentation of exporting institutions @rec\_source.

Version 1.2.1 22 December 2009

Mikael K. Elbæk, editor

# 0.5 Preface to version 1.2.2

Version 1.2.2 of the MXD-documentation has been released to enable compliancy with the OpenAIRE Guidelines 1.1 (<u>www.openaire.eu</u>). The OpenAIRE Guidelines explicitly requires the decleration of an EC grant agreement number, if the access is embargoed and date stamp indicating the end of the embargo period.

In addition small changes have been adopted to accommodate the requests received from DDF-MXD stakeholders since the last version (1.2.1). The changes includes: the addition of a new state of publication – unpublished related to unpublished material i.e. grey literature. A new <series> field in <report> and <in\_report> to accommodate the need to express series titles in the two publication forms. And finally the inclusion of <vol> and <issue> in\_report series.

Version 1.2.2 9 May 2011

Mikael K. Elbæk, editor

# 0.6 Preface to version 1.3.0

Version 1.3.0 of the MXD-documentation has been released to simplify the use of BFI indicators, by moving bfi\_journal\_no and bfi\_publishers\_no from a granular level to the higher *Publication* container level. The *DASTI* notion has been replace by *BFI* generally. Bfi\_conference\_no has been added as an attribute to *Event*. Sub\_event has been added to *Event* to enable description of sub event types like Conference track, Lectures and similar and vocabulary for sub event types has been in note 32.

The Namespace has changed to http://mx.forskningsdatabasen.dk/ns/*documents*/1.3 where documents replaces MXD.

Version 1.3.0 12 March 2012

Mikael K. Elbæk, editor

Version 1.3.1.1

# 0.7 Preface to version 1.3.1

Version 1.3.1 of the MXD-documentation has been released to encompass the need to specify global identifiers for organisations and researchers, hence the inclusion of ORCID (www.orcid.org) and Ringgold (www.ringgold.com). To conform with the practical needs of the exchange format the publication type elements *in\_report, report, in\_book and book* has been harmonized so that all types includes the elements: <doi>, <issn>, <vol> and <issue>. Three new codes for exporting database/institutions have been added. A new element <ou> coa\_link> has been created to define the URL to the electronic Open Access version of the document. Finally two new document (publication) types have been included, in order to accommodate the needs of university colleges in Denmark e.g.: *Bachelor thesis Diploma Bachelor thesis*.

Version 1.3.1 8 June 2015

Birthe Krog, editor

# 0.8 Preface to version 1.3.1.1

Version 1.3.1.1 of the MXD-documentation has been released to adjust the requirement for the attribute @url in element <oa\_link>. @url is changed from '(§) mandatory- when its parent element is used.' to '! Required - whenever it applies and data is available'.

Version 1.3.1.1 3 August, 2015

Birthe Krog, editor

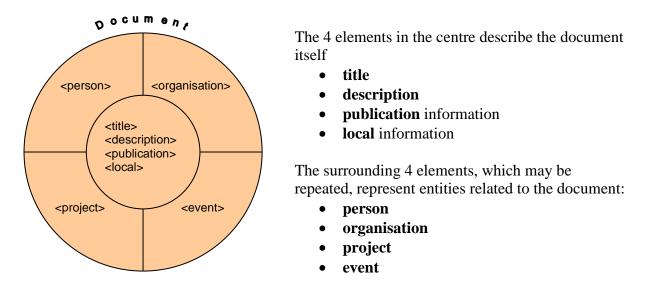
# 1. Introduction

DDF MXD, the Danish Research Database Metadata Exchange Format for Documents, is intended for the exchange of document metadata between institutional research databases (Institutional Repositories etc.) and the national index and search engine for research information, the Danish Research Database (Den Danske Forskningsdatabase - DDF).

DDF MXD has a simple yet flexible design, intended to cater equally well for the simplest minimum-level metadata as for more detailed and sophisticated cataloguing practises.

DDF MXD may be transported using OAI PMH, the Open Archives Initiative Protocol for Metadata Harvesting, and mapped to OAI DC, the simple Dublin Core format used as default in OAI PMH.

DDF MXD is organised in 8 elements, which may be broken down using sub-elements. The diagram below illustrates the data model and the 8 main elements:



### Title

Contains the document title and optional translated title.

### Description

Contains a variety of descriptive data types that deal with the content of the document, such as notes, abstracts, subject classifications and keywords etc.

### Publication

Contains all the information about how the document was published in the widest sense of the word, including electronic availability via personal homepages, institutional repositories and similar web sites.

### Local

Contains additional local information, which may be formatted according to local preferences.

### Person

Contains information about any person related to the creation of the document - like authors, editors, composers, publishers, illustrators etc.

## Organisation

Contains information about any organisation related to the document, whether it be as the affiliation of an author, as a corporative author or in any other capacity of importance for the document.

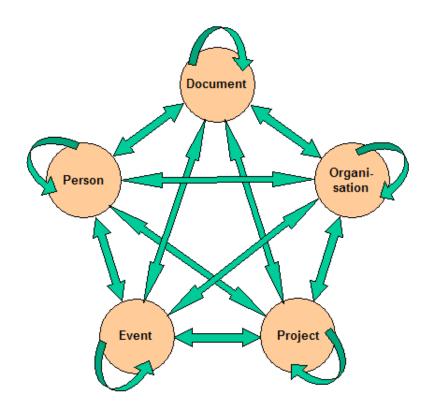
## Project

Contains information about any project related to the document.

# Event

Contains information about any event (conference, seminar, workshop, meeting, course, etc.) related to the document.

The Exchange Format for Documents is fully compatible with the general data model for the Danish Research Database, illustrated by the diagram below.



As DDF-MXD only serves to describe documents (one of the five DDF information objects above) it has a simple architecture with a few elements describing the document itself and four elements describing the relations to the four other information objects of the model.

Other DDF exchange formats with similar architectures are planned for projects, persons, organisations, etc.

# 2. Overview of format

The table below is only intended to provide a quick overview.

- For full details please consult to section 3.
- The numbers at the right hand side of the page refer to the notes in section 4.
- Examples illustrating the use of the format may be found in section 5.

### **General specifications**

- UTF-8 is mandatory character encoding for all data
- Whenever an element contains sub-elements, all data must be placed in these subelements, rather than in the element itself.
- The latest corresponding XML schema for validation of MXD v.1.3.0 can be found at http://mx.forskningsdatabasen.dk/ns/documents/1.3 Please note the sequence of elements in the schema must be obeyed - A stylesheet for sorting can be found at the same address.
- The namespace for the schema is set to http://mx.forskningsdatabasen.dk/ns/documents/1.3

### Explanation of codes used in the first two columns of the list below

S	Mandatory - in all cases. Records without this element or attribute will be rejected.
(§)	<b>Mandatory</b> - when its parent element is used. In such cases, records without this element or attribute will be rejected
[§]	<b>Mandatory</b> - when its parent element is used and another specified condition is met. In such cases, records without this element or attribute will be rejected
!	<b>Required</b> - whenever it applies and data is available. These elements or attributes are required to establish a fully functional DDF record, which may be successfully searched, displayed and used for statistics. They cannot, however, be made mandatory, as they do not apply in all cases (e.g. not all publications have a personal author, but if such exists it must be recorded).
+	<b>Recommended</b> - whenever it applies and data is available. These elements or attributes are recommended, as they substantially enhance the functionality and usability of the record.
?	<b>Optional</b> - these elements or attributes are entirely optional. They primarily serve the needs of data suppliers that want to preserve the finer details of their local data – for example to use the DDF data as a backup copy or similar.
®	Repeatable - the element may be repeated

# Table of elements and attributes

Root element:			
<ddf_doc></ddf_doc>	§		
@format_version	§	Exchange format version used - "1.3.1" for current version	
@doc_type	§	Type of document	1)
@doc_lang	§	Language of document	2)
@doc_year	§	Annual report year of the document (may differ from publication year)	3)
@doc_review	§	Document review process type like "peer-review", "no review"	4)
@doc_level	§	Indicating purpose/audience like "scientific", "educational", "popular"	5)
@rec_source	§	Code of exporting database/institution	6)
@rec_id	§	Data supplier's local record ID - must be unique for supplier	
@rec_created	§	Date when the record was first created in the local database, in yyyy-mm-dd	
@rec_upd	§	Last update date in format yyyy-mm-dd	
@rec_status	§	Whether the record is to be considered as "new", "updated" or "deleted"	7)
Sub-elements:			
<title>&lt;/td&gt;&lt;td&gt;§&lt;/td&gt;&lt;td&gt;Title of the work in focus&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;original&gt;&lt;/td&gt;&lt;td&gt;§&lt;/td&gt;&lt;td&gt;The title in the original language&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of title&lt;/td&gt;&lt;td&gt;2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;main&gt;&lt;/td&gt;&lt;td&gt;§&lt;/td&gt;&lt;td&gt;Main title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;sub&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Sub title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;part&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Part designation of a multipart work ("Vol. 1", "Bind 1" etc)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;other&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Any other title information&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;translated&gt;&lt;/td&gt;&lt;td&gt;? R&lt;/td&gt;&lt;td&gt;The title translated to another language&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Language of title&lt;/td&gt;&lt;td&gt;2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;main&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Main title&lt;/td&gt;&lt;td&gt;- 2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;main&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;?®&lt;/td&gt;&lt;td&gt;Sub title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;sub&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;&lt;u&gt;?&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Part designation of a multipart work ("Vol. 1", "Bind 1" etc)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;cother&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Any other title information&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;ol&gt;     &lt;li&gt;Collier&gt;&lt;/li&gt; &lt;/ol&gt;&lt;/td&gt;&lt;td&gt;· · · ·&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;description&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;abstract&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Summary of content&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of abstract&lt;/td&gt;&lt;td&gt;2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;note&gt;&lt;/td&gt;&lt;td&gt;?®&lt;/td&gt;&lt;td&gt;Any descriptive note&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of note&lt;/td&gt;&lt;td&gt;2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;thesis&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Special thesis note&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;institution&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Name of the academic institution awarding the degree&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;advisor&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Name of the academic advisor/supervisor&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;aw_date&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Date of awarded degree in format yyyy-mm-dd&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;other&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Any other information&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;subject&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Subject description&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;keyword&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@key_type&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Vocabulary/theasurus used, like "EUDISED", "INSPEC" or "free"&lt;/td&gt;&lt;td&gt;8)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of keyword&lt;/td&gt;&lt;td&gt;2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;class&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@class_type&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Classification system used, like "DDC", "UDC", "DEF", "DK5"&lt;/td&gt;&lt;td&gt;9)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of classification&lt;/td&gt;&lt;td&gt;2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;research_area&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Special national research area, used by DASTI&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@area_code&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;One of four national research areas.&lt;/td&gt;&lt;td&gt;31)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of research area&lt;/td&gt;&lt;td&gt;2)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;person&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Person related to the document (in the same sequence as in document)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@pers_role&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Role of the person in relation to the document (see note)&lt;/td&gt;&lt;td&gt;10)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@aff no&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;(8)&lt;/td&gt;&lt;td&gt;Reference no. of the affilition within the record (links person to organisation)&lt;/td&gt;&lt;td&gt;10)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;name&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;name&gt;&lt;/td&gt;&lt;td&gt;(&lt;u&gt;§)&lt;/u&gt;&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;First name (personal name) or initials&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;li&gt;&lt;last&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Last name (family name)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;?®&lt;/td&gt;&lt;td&gt;Identification number or code&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;40&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@id_type&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Type of ID, registered with DDF - like the international ORCID&lt;/td&gt;&lt;td&gt;12)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@id_source&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Source of the person-ID, i.e. aau, cbs etc. only for use with the Danish DNFD&lt;/td&gt;&lt;td&gt;6)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;title&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;br/&gt; &lt;br/&gt; &lt;br/&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;In format yyyy-mm-dd&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;country&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Country of citizenship using ISO country codes&lt;/td&gt;&lt;td&gt;13)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;address&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Postal address&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;email&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Email address&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;uri&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;URI (URL) link to web page&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

			<b>-</b>
organisation>	•	Organisation related to the document, information formatted as below	_
@org_role	§	Role of the organisation in relation to the document (see note)	-
@aff_no	<u> </u>	Reference no. of the affilition within the record (links person to organisation)	_
<name></name>	§®	Name - only repeatable in case of language variants	-
@xml:lang	[§]	Language of organisation name (mandatory if name is repeated)	
<level1></level1>	§	Name of highest organisational level (example: university)	_
<level2></level2>	!	Name of second organisational level (example: faculty)	_
<level3></level3>	!	Name of third organisational level (example: institute, department)	_
<level4></level4>		Name of fourth organisational level (example: section, center, division)	
<acronym></acronym>	!	Acronym	
<id></id>	?®	Identification number or code	
@id_type	(§)	Type of ID, registered with DDF - like Danish CVR no.	
<country></country>	+	Country of legal residence using ISO country codes	Ĩ
<uri></uri>	?	URI (URL) link to web page	1
			1
		Desired values the desument information formation as helpsu	_
project> @proj_role	(§)	Project related to the document, information formatted as below Role of the project in relation to the document (see note)	-
<pre></pre>	( <u>9)</u> (§) ®	Title - only repeatable in case of language variants	-
@xml:lang	(§) © [§]	Language of project title (mandatory if title is repeated)	
<main></main>	(§)	Main title	╉
	(8)	Sub title	+
<sub></sub>			╉
<acronym></acronym>	!	Acronym	-
<id></id>	?®	Identification number or code	-
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vent>	! ®	Event (like conference) related to the document	1
@event_role	(§)	Role of the event in relation to the document (see note)	
@bfi conference no	!	BFI conference number from the BFI conference database	
<title>&lt;/td&gt;&lt;td&gt;(§) ®&lt;/td&gt;&lt;td&gt;Title - only repeatable in case of language variants&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;[§]&lt;/td&gt;&lt;td&gt;Language of the event title (mandatory if title is repeated)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;full&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Full title, like "European Conference on Digital Libraries"&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;acronym&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Acronym title, like "ECDL"&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;year&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;Year of the event&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;number&gt;&lt;/td&gt;&lt;td&gt;i&lt;/td&gt;&lt;td&gt;Number in series of recurrent events, like "8"&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;dates&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;start&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;First day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;end&gt;&lt;/td&gt;&lt;td&gt;(2)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;place&gt;&lt;/td&gt;&lt;td&gt;&lt;u&gt;(§)&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Last day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;context&lt;/pre&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;!&lt;br&gt;!&lt;/td&gt;&lt;td&gt;Place (city, country) of the event/conference&lt;br&gt;Sub event (like track or lecture) related to the main event and the document&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@event_type&lt;br&gt;&lt;title&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Sub event type in relation to the main event (see note)&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;[§]&lt;/td&gt;&lt;td&gt;Language of the sub event title (mandatory if title is repeated)&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;acronym&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Acronym title, or call name like "Fedora"&lt;/td&gt;&lt;td&gt;4_&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;id&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Identification number or code&lt;/td&gt;&lt;td&gt;4&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@id_type&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Type of ID, registered with DDF - like local course id&lt;/td&gt;&lt;td&gt;4&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;uri&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;URI (URL) link to web page&lt;/td&gt;&lt;td&gt;_&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;ocal_field&gt;&lt;/td&gt;&lt;td&gt;?®&lt;/td&gt;&lt;td&gt;Locally defined field with optional subfield&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@tag_type&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Defining if/how field should be indexed and displayed&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Qualitana&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of field&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Field and (to a) using a set (many an enlawing assoc) and 0.0 and&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;@xml:lang&lt;br&gt;&lt;code&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Field code (tag) using a-z (upper or lower case) and 0-9 only&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;code&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;Field code (tag) using a-z (upper or lower case) and 0-9 only&lt;br&gt;Field data&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;code&gt;&lt;br&gt;&lt;data&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Field data&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;code&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

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<pre>@bfi_serial_no</pre>	!	BFI serial number from the authoritative BFI serials database	
<in_journal></in_journal>	!	Use for articles, papers published in a journal (incl. proceedings issues)	
@pub_status	(§)	Status of publication, like "submitted", "accepted", "published"	
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®&lt;/td&gt;&lt;td&gt;ISBN no. without dashes&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@type&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Defining electronic or print ISBN&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;series&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Book series title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;issn&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;ISSN no. without dashes&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@type&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Defining electronic or print ISSN&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;place&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Place of publication&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;pre&gt;cpublisher&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Name of publisher&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;year&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Year of publication in format yyyy&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;vol&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Volume no.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;issue&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Issue no.&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;doi&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;DOI no.&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pages&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;In the format Firstpage-Lastpage&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;uri&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;URI (URL) link to web site of book&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@access&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Use to state the accessibility of the linked article, i.e. "Open Access"&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;in_report&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Use for chapters, papers etc published as a part of a report&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@pub_status&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Status of publication, like "submitted", "accepted", "published"&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;title&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Report title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;sub_title&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Report sub title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;part&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Part designation of a multipart work ("Vol. 1", "Bind 4: Middelalderen" etc)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;editor&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Name of the editor of the report&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;isbn&gt;&lt;/td&gt;&lt;td&gt;! 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DDF-MXD - Danish Research Database - Metadata Exchange Format for Documents

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<digital_object></digital_object>	! ®		
@id	(§)	Unique id for the parent record	
@role	1	What is the role of the object in relation to the record ie. Postprint	3
@access	(§)	Use for stating t+F119he access rights for the object ie. "Open Access"	2
<pre><description></description></pre>	1	Description of the specific digital object	
<embargo_end></embargo_end>	[§]	Embargo end date in the format yyyy-mm-dd	
<file></file>	(§)	System generated description of the digital_object	
@lang	!	Language of the file	
@size	[§]	The size of the file	
@mime_type	!	Mime type for the file must comply with the IANA specifications	2
@timestamp	[§]	Timestamp given when the file was change or uploaded	2
@filename	[§]	Name of the file when uploaded	
<description></description>	<u>[8]</u>	Description of the specific version	
<uri></uri>	!	URI (URL) to the digital object ie. in the local repository	

# DDF-MXD - Danish Research Database - Metadata Exchange Format for Documents

<oa< th=""><th>_link&gt;</th><th>! ®</th><th>URL to the electronic Open Access version of the document</th><th></th></oa<>	_link>	! ®	URL to the electronic Open Access version of the document	
0	Ptype	(§)	Defines if the URL points to a local- or remote repository or to a DOI resolver	33)
@	version	(§)	Document version of the document the URL points to. Preprint etc.	34)
(	@public_access	(§)	Access rights to the document the URL points to. Open Access etc.	35)
(	@license	!	License attached to the file	
(	@embargo_start	!	Embargo start date, if applied - using ISO8601 (yyyy-mm-dd)	
(	@embargo_end	!	Embargo end date, if applied - using ISO8601 (yyyy-mm-dd)	
(	<u>@url</u>	!	The URL pointing directly to the electronic file	

# 3. Annotated list of elements and attributes

This section contains a complete listing of the elements and attributes of the format.

- The numbers at the right hand side of the page refer to the notes in section 4.
- Examples illustrating the use of the format may be found in section 5.
- A more condensed overview table is provided in section 2.

### **General specifications**

- UTF-8 is mandatory character encoding for all data
- Whenever an element contains sub-elements, all data must be placed in these subelements, rather than in the element itself.
- The latest corresponding XML schema for validation of MXD v.1.2.0 can be found at http://mx.forskningsdatabasen.dk/mxd/1.2.0 Please note the sequence of elements in the schema must be obeyed - A styelsheet for sorting can be found at the same address.
- The namespace for the schema is set to http://mx.forskningsdatabasen.dk/mxd/1.2

# Explanation of codes used in the first two columns of the list below

S	<b>Mandatory</b> - in all cases. Records without this element or attribute will be rejected.
(§)	<b>Mandatory</b> - when its parent element is used. In such cases, records without this element or attribute will be rejected
[§]	<b>Mandatory</b> - when its parent element is used and another specified condition is met In such cases, records without this element or attribute will be rejected
!	<b>Required</b> - whenever it applies and data is available. These elements or attributes are required to establish a fully functional DDF record, which may be successfully searched, displayed and used for statistics. They cannot, however, be made mandatory, as they do not apply in all cases (e.g. not all publications have a personal author, but if such exists it must be recorded).
+	<b>Recommended</b> - whenever it applies and data is available. These elements or attributes are recommended, as they substantially enhance the functionality and usability of the record.
?	<b>Optional</b> - these elements or attributes are entirely optional. They primarily serve the needs of data suppliers that want to preserve the finer details of their local data – for example to use the DDF data as a backup copy or similar.
R	Repeatable - the element may be repeated

# **Root element**

S	ddf doc	
3	Root element of one document record. Other DDF record types similarly have type-specific root elements, ddf_pro for projects, ddf_org for organisations, ddf_per for persons, etc. The element is organised in 8 sub-elements, described on the following pages:	
	ddf_doc/@format_version	
	The particular version of the exchange format used, for the current version check the cover. As subsequent versions have now been issued, this aids the schema validation and other applications parsing the XML.	
ş	ddf_doc/@doc_type	
	Code for type of document (like "dja" for "journal article") according to the DDF list of types and their codes (see note). Code is used for various retrieval and sorting purposes, see Annex 1.	
ş	ddf_doc/@doc_lang	
	Code for language of the document itself. Codes must follow the W3C rules for xml:lang, which means complying with IETF RFC 1766 and ISO 639.	
3	ddf_doc/@doc_year	
	Annual report year of the document (may differ from publication year) in the format yyyy. This is used for various sorting and searching purposes as well as for data management.	
ş	ddf_doc/@doc_review	
	Code indicating the type of review the document has been subject to like "peer-review" or "no review". See note for DDF list of review types and their codes. Code is used for various retrieval and sorting purposes, see Annex 1.	
5	ddf_doc/@doc_level	
	Code indicating literary scope or level of the document, like "scientific", "educational", "popular". See note for DDF list of levels and their codes. Code is used for various retrieval and sorting purposes, see Annex 1.	
ş	ddf_doc/@rec_source	
	Code of exporting database/institution. Each organisation/database acting as a source and exporting records to DDF is registered with a unique code. See note for DDF list of source database codes.	
ş	ddf_doc/@rec_id	
	The data supplier's local/original ID of the record – must be unique per data supplier. In case supplier is exporting from more than one local database, which may use the same IDs, these must be prefixed (with database name or similar) to become unique within the supplier's data.	
Ş	<pre>ddf_doc/@rec_created</pre> Date when the record was first created in the local database in the format yyyy-mm-dd	
5	ddf_doc/@rec_upd	
	Last update date of the exporting database in the format yyyy-mm-dd	
}	ddf_doc/@rec_status	
-	Code indicating whether the record is to be considered as "new", "updated" or "deleted". Since data is gathered via OAI harvesting "new" records must be set as "updated". See note for DDF list of record status codes.	

# Title element

S		<pre>ddf_doc/title Title of the work in focus. Other titles such as conference titles and titles of host publications (journals, books) are recorded in other elements, ddf_doc/event and ddf_doc/publication respectively. The element is organised in the following 2 sub-elements:     title/original (mandatory)     title/translated (optional and repeatable)</pre>	_
S		ddf_doc/title/original The title in the original language – use sub-elements below	
?		ddf_doc/title/original/@xml:lang Language of title	2)
S		ddf_doc/title/original/main Main title	
+	®	ddf_doc/title/original/sub Sub title	
+		ddf_doc/title/original/part Part designation of a multipart work ("Vol. 1", "Bind 1" etc)	
?		ddf_doc/title/original/other Any other title information	
?	®	ddf_doc/title/translated The title translated to another language – use sub-elements below	
(§)		ddf_doc/title/translated/@xml:lang Language of title	2)
(§)		ddf_doc/title/translated/main Main title	
?	®	ddf_doc/title/translated/sub Sub title	
?		<b>ddf_doc/title/translated/part</b> Part designation of a multipart work ("Vol. 1", "Bind 1" etc)	
?		ddf_doc/title/translated/other Any other title information	

# **Description element**

!		ddf_doc/description	
		The description element is the common container for a variety of descriptive data types that deal with the content of the document, such as notes, abstracts, subject classifications and keywords etc. The description element is not mandatory but should be used whenever such data is available. The element is organised in the following sub-elements: description/abstract (summary of the content), description/thesis (special structured note for academic thesis), description/note (other descriptive notes), description/subject/keyword (free or controlled keywords), description/subject/class (classification system codes). description/research_area (special national Danish research areas).	
!	®	ddf_doc/description/abstract	
		Summary of content	
?		ddf_doc/description/abstract/@xml:lang	
		Language of abstract	2)
?	R	ddf_doc/description/note	
		Any descriptive note	
?		ddf_doc/description/note/@xml:lang	
		Language of note	2)
1		ddf_doc/description/thesis	
		Special thesis note – use sub-elements below. The attribute ddf_doc/@doc_type is used to differentiate between different types/levels of thesis	1)
!		ddf_doc/description/thesis/institution	
		Name of he academic institution awarding the degree	
+		ddf_doc/description/thesis/advisor	
		Name of the academic advisor/supervisor	
+		ddf_doc/description/thesis/aw_date	
		Date of awarded degree in format yyyy-mm-dd	
?		ddf_doc/description/thesis/other	
		Any other information	
!		ddf_doc/description/subject	
		Subject description – use sub-elements below.	
!	R	ddf_doc/description/subject/keyword	
		Keywords – whether free or controlled.	
(§)		ddf_doc/description/subject/keyword/@key_type	
		Vocabulary/theasurus used, like "EUDISED", "INSPEC" or "free"	8)
?		ddf_doc/description/subject/keyword/@xml:lang Language of keyword	2)
!	R	ddf_doc/description/subject/class Classification codes according to the system declared in the attribute below.	
(§)		ddf_doc/description/subject/class/@class_type Classification system used, like "DDC", "UDC", "DEF", "DK5"	9)
?		ddf_doc/description/subject/class/@xml:lang	
		Language of classification	2)

!	ddf_doc/description/research_area	
	Special national research area used by the Danish Agency for Science, Technology and Innovation.	
(§)	ddf_doc/description/research_area/@area_code	31)
	Code for one of the four national research areas, ie.: Science/technology, Social science, Humanities and Medical science.	
!	ddf_doc/description/research_area/@xml:lang	
	Language of the research area	

### Person element

!	®	ddf_doc/person
		This repeatable element is used to record information about any person related to the creation of the document (like authors, editors, composers, publishers, illustrators etc.). Each person and the corresponding role are recorded in a separate instance of the element and the sequence should follow that of the document title page. The correct attribution of persons to documents is essential for any statistical purposes. The element is organised in the following sub-elements of which most are optional: <pre>person/name</pre> (split in first and last name),
		person/id (various forms of identification numbers - optional), person/title (personal title - optional),
		person/birthdate (optional),
		person/country <b>(of citizenship - recommended)</b> , person/address <b>(postal - optional)</b> ,
		person/email (optional),
		person/uri (link to web page - optional)
(§)		ddf_doc/person/@pers_role
		Role of the person in relation to the document (see note for authorised values) 10)
(§)		ddf_doc/person/@aff_no
		Internal reference no. of the organisation (ddf_doc/organisation/@aff_no) to which the person was affiliated while creating/contributing to this document. 11)
(§)		ddf_doc/person/name
		Pesonal name – use sub-elements below
(§)		ddf_doc/person/name/first
		First name (personal name) or initials
(§)		ddf_doc/person/name/last
		Last name (family name)
?	R	ddf_doc/person/id
		Identification number or code
(§)		ddf_doc/person/@id_type
		Type of ID, registered with DDF - like ORCID 12)
!		ddf_doc/person/@id_source       6)         Source of the NFDB Person-ID, i.e. aau, cbs etc. A combination of local id and prefix will create a unique id for each author.       6)
2		ddf_doc/person/title
?		ACT_ACC/PERSON/LILLE Personal title related to academic degree and/or job function.
-		
?		ddf_doc/person/birthdate
		In format yyyy-mm-dd

?	ddf_doc/person/country Country of citizenship using ISO country codes
?	ddf_doc/person/address Postal address
?	ddf_doc/person/email Email address
?	ddf_doc/person/uri URI (URL) link to web page

# **Organisation element**

S	R	ddf_doc/organisation	
		This repeatable element is used to record information about any organisation related to the document, whether it be as the affiliation of an author, as a corporative author or in any other capacity of importance for the document. Each organisation and the corresponding role is recorded in a separate instance of the element. The correct attribution of organisations to documents is essential for any statistical purposes. The element is organised in the following sub-elements:	
		organisation/name (split in up to 4 hierarchical levels and acronym),	
		organisation/id (optional), organisation/country (recommended),	
		organisation/uri (link to web page - optional)	
S		ddf_doc/organisation/@org_role	
		Role of the organisation in relation to the document (see note for authorised values)	14)
S		ddf_doc/organisation/@aff_no	
		Internal reference no. of the organisation. Is used to link persons with the right affiliation.	11)
S	R	ddf_doc/organisation/name	
		Name - only repeatable in case of language variants - use sub-elements below	
[§]		ddf_doc/organisation/name/@xml:lang	
		Language of organisation name (mandatory if name is repeated)	2)
S		ddf_doc/organisation/name/level1	
		Name of highest organisational level (example: university) In cases where the name cannot be split in several hierarchical levels, this sub-element contains the entire name.	
!		ddf_doc/organisation/name/level2	
		Name of second organisational level (example: faculty)	
!		ddf_doc/organisation/name/level3	
		Name of third organisational level (example: institute, department)	
!		ddf_doc/organisation/name/level4	
		Name of fourth organisational level (example: section, division, group)	
!		ddf_doc/organisation/name/acronym	
		Acronym. Whenever possible, the acronym should reflect the same organisational hierarchy as the levels of the full name, for example UNIV.FACU.INST.GRP	
?	R	ddf_doc/organisation/id	
		Identification number or code	
(§)		ddf_doc/organisation/id/@id_type	
		Type of ID, registered with DDF - like Danish CVR no.	12)
+		ddf_doc/organisation/country	

13)

Country of legal residence using ISO country codes

13)

5

#### ddf\_doc/organisation/uri

URI (URL) link to web page

# **Project element**

!	R	ddf_doc/project	
		This repeatable element is used to record information about any project related to the document. Each project and the corresponding role are recorded in a separate instance of the element. The attribution of projects to documents will allow users to jump easily between projects and their documents. The element is organised in the following sub-elements:	_
(§)		ddf_doc/project/@proj_role	**
		Role of the project in relation to the document (see note for authorised values)	15)
(§)	R	ddf_doc/project/title	
		Title - only repeatable in case of language variants – use sub-elements below	
[§]		ddf_doc/project/title/@xml:lang	
		Language of project title (mandatory if title is repeated)	2)
(§)		ddf_doc/project/title/main Main title	
!		ddf_doc/project/title/sub Sub title	
l		ddf_doc/project/title/acronym Acronym	n
?	®	ddf_doc/project/id Identification number or code	
(§)		ddf_doc/project/id/@id_type	
		Type of ID, registered with DDF - like local project number	12)
?		ddf_doc/project/uri	
		LIPL (LIPL) link to woh page	

URI (URL) link to web page

# **Event element**

!	®	ddf_doc/event	
		This repeatable element is used to record information about any event (conference, seminar workshop, meeting, course, etc.) related to the document. Each event and its corresponding role are recorded in a separate instance of the element.	
		The element is organised in the following sub-elements:	
		event/title (split in full, acronym and number), event/dates (split in start and end),	
		event/place (split in start and end),	
		event/uri (link to web page - optional)	
(§)		ddf_doc/event/@event_role	
		Role of the event in relation to the document (see note for authorised values)	16)
!		ddf_doc/event/@bfi_conference_no	
		BFI conference number from the BFI conference database	28)
(§)	®	ddf_doc/event/title	,
		Title - only repeatable in case of language variants – use sub-elements below	
[§]		ddf_doc/event/title/@xml:lang	
		Language of the event title (mandatory if title is repeated)	2)
(§)		ddf_doc/event/title/full	
		Full event title, like "European Conference on Digital Libraries"	
!		ddf_doc/event/title/acronym	
		Acronym event title, like "ECDL"	
!		ddf_doc/event/title/number	
		Number in series of recurrent events, like "8"	
!		ddf_doc/event/dates	
		Start and end dates of event – use sub-elements below:	
(§)		ddf_doc/event/dates/start	
		First day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy	19)
(§)		ddf_doc/event/dates/end	
		Last day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy	19)
!		ddf_doc/event/place	
		Place (city, country) of the event/conference	
(§)		<b>ddf_doc/event/sub_event/</b> Sub event (like track or lecture) related to the main event and the document	
(§)		ddf_doc/event/sub_event/@event_role	00)
		Role of the sub_event in relation to the main event (see note for authorised values)	32)
(§)	®	ddf_doc/sub_event/title	
		Title of sub event like "User Group Session 2C (Fedora): Search and Metadata	
[§]		ddf_doc/event/sub_event/title/@xml:lang	
		Language of the event title (mandatory if title is repeated)	2)
!		ddf_doc/event/sub_event/title/acronym	
		Acronym title or call name, like "Fedora"	

!	R	ddf_doc/event/sub_event/id Identification number or code	12)
?		ddf_doc/event/sub_event/@id_type Type of ID, registered with DDF – like local course ID	
(§)		ddf_doc/event/uri	

### Local field element

? 🛛	ddf_doc/local_field
	This repeatable and optional element is used to handle additional information using a locally defined two-level field structure, where a local field may have one or more parallel subfields. The local_field/@tag_type attribute is used to pass instructions on how to index and display the field and its subfields in the receiving system. The element is organised in the following sub-elements: local_field/code (field code), local_field/data (field data),
	local_field/subfield (subfield likewise split in code and data)
(§)	ddf_doc/local_field/@tag_type
(3)	Defining if/how field and should be indexed and displayed, see note 17)
?	ddf_doc/local_field/@xml:lang
	Language of field 2)
(§)	ddf_doc/local_field/code
	Field code (tag) using a-z and 0-9 only
(§)	ddf_doc/local_field/data Field data
? ®	ddf_doc/local_field/subfield Repeatable subfield likewise split in code and data
(§)	ddf_doc/local_field/subfield/code Subfield code (tag) using a-z and 0-9 only
(§)	ddf_doc/local_field/subfield/data Subfield data

### **Publication element**

§

#### ddf\_doc/publication

The mandatory publication element carries all the information about how the document was published in the widest sense of the word, including electronic availability via personal homepages, institutional repositories and similar web sites.

The publication element is structured in 9 publication cases, each with its own repertoire of subelements:

- In a journal (as an article or similar)
- In a book (as a chapter or similar)
- In a report (as a chapter or similar)
  - As a book (the book as a whole)
- As a report (the report as a whole)
- As a patent (or patent application)
- As an Internet publication (institutional repository, preprint archive, home page etc.)
- As a Digital object (in a managed institutional repository, preprint archive etc.)
- Any other form of publication

These cases correspond to the sub-elements: in\_journal, in\_book, in\_report, book, report, patent, digital\_object, inetpub and other.

At least one of these cases must be applied, but often two or more cases may be applied concurrently. For example, a journal article may be published "In a journal" and at the same be available at the author's institutional repository "As an Internet publication" or "Digital object".

(§)	ddf_doc/publication/@bfi_publisher_no BFI publisher number from the authoritative BFI publisher database	28)
!	ddf_doc/publication/@bfi_serial_no BFI serial number from the authoritative BFI serials database	28)

#### Publication case - In a journal

!		ddf_doc/publication/in_journal	
		Use for articles, papers, etc. published in a journal (or submitted to a journal for publication) All data is placed in the sub-elements: title, title_alternative, issn, year, vol, issue, pages, paperid, doi, journal_no, uri.	
(§)		ddf_doc/publication/in_journal/@pub_status	
		Status of publication, like "submitted", "accepted", "published" – see note. Is mandatory for in-journal publications because the time from "submitted" to "published" is often long and may cross year boundaries.	18)
(§)		ddf_doc/publication/in_journal/title Journal title	
l		<b>ddf_doc/publication/in_journal/title_alternative</b> Alternative title of the journal, i.e. former title, title in other languages, title from different data sources.	
!	®	ddf_doc/publication/in_journal/issn Journal ISSN no. without dashes	23 <b>)</b>
!	®	ddf_doc/publication/in_journal/issn/@type Defining type of ISSN, i.e. electronic or primary etc.	29)
!		ddf_doc/publication/in_journal/year Year of publication in format yyyy	
!		ddf_doc/publication/in_journal/vol Volume number	
!		ddf_doc/publication/in_journal/issue	
!		ddf_doc/publication/in_journal/pages	22)

In the format Firstpage-Lastpage (or in case of Paper ID, the number of pages)

! ddf\_doc/publication/in\_journal/paperid

Paper ID, an alternative to page numbers, typically used by e-journals

- ! ddf\_doc/publication/in\_journal/doi
  Digital Object Identifier
- + ddf\_doc/publication/in\_journal/uri URI (URL) link to article on the journal's web site. Information about availability at preprint servers, web sites belonging to author or author's institution or similar should be recorded using the publication case "As an Internet publication"
- + ddf\_doc/publication/in\_journal/uri/@access

Use to state the accessibility of the linked article, i.e. "Open Access"

#### Publication case - In a book

!		ddf_doc/publication/in_book	
		Use for chapters, papers, etc. published as a part of a book (incl. proceedings in book form) All data is placed in the sub-elements: title, sub_title, part, edition, editor, isbn, place, publisher, year, pages, series, publisher_no, uri.	
(§)		ddf_doc/publication/in_book/@pub_status	
		Status of publication, like "submitted", "accepted", "published" Is mandatory for in-book publications because the time from "submitted" to "published" is often long and may cross year boundaries.	18)
(§)		ddf_doc/publication/in_book/title Book title	
+		ddf_doc/publication/in_book/sub_title Sub title of the host publication/book	
!		ddf_doc/publication/in_book/part Part designation of a multipart work ("Vol. 1", "Bind 4: Middelalderen" etc.)	
!		ddf_doc/publication/in_book/edition Book edition, like "2nd rev. ed."	
!		ddf_doc/publication/in_book/editor Name of the (first) editor of the book	
!	®	ddf_doc/publication/in_book/isbn ISBN no. without dashes	24)
!	®	ddf_doc/publication/in_book/isbn/@type Defining type of ISBN, i.e. electronic or primary etc.	29)
!	®	ddf_doc/publication/in_book/issn Journal ISSN no. without dashes	23 <b>)</b>
!	®	ddf_doc/publication/in_book/issn/@type Defining type of ISSN, i.e. electronic or primary etc.	29)
!		ddf_doc/publication/in_book/place Place of publication	
!		ddf_doc/publication/in_book/publisher Name of publisher	
!		ddf_doc/publication/in_book/year Year of publication in format yyyy	
!		ddf_doc/publication/in_book/vol Volume number	
!		ddf_doc/publication/in_book/issue	

27)

		Issue number	
I		ddf_doc/publication/in_book/pages	22)
!	®	ddf_doc/publication/in_book/series Book series information (like "Progress in Nanotechnology, vol. 14")	
!		ddf_doc/publication/in_book/doi Digital Object Identifier	
+		ddf_doc/publication/in_book/uri URI (URL) link to web site of book	
+		<b>ddf_doc/publication/in_book/uri/@access</b> Use to state the accessibility of the linked web site of the book, i.e. "Open Access"	27)
Public	ation ca	se - In a report	
!		ddf_doc/publication/in_report	
		Use for chapters, papers, etc. published as a part of a report. All data is placed in the sub-elements: title, sub_title, part, editor, isbn, rep_no, place, publisher, year, pages, uri.	
+		<pre>ddf_doc/publication/in_report/@pub_status Status of publication, like "submitted", "accepted", "published"</pre>	18)
(§)		ddf_doc/publication/in_report/title Report title	
+		ddf_doc/publication/in_report/sub_title Sub title of the host publication/report	
+		ddf_doc/publication/in_book/part Par designation of a multipart work ("Vol. 1", "Bind 4: Middelalderen" etc.)	
!		ddf_doc/publication/in_report/editor Name of the (first) editor of the report as a whole	
!	®	ddf_doc/publication/in_report/isbn ISBN no. without dashes	24)
!	R	ddf_doc/publication/in_report/isbn/@type Defining type of ISBN, i.e. electronic or primary etc.	29)
!	R	ddf_doc/publication/in_report/issn Journal ISSN no. without dashes	23 <b>)</b>
!	R	ddf_doc/publication/in_report/issn/@type Defining type of ISSN, i.e. electronic or primary etc.	29)
!	R	ddf_doc/publication/in_report/series Report series title	
!		ddf_doc/publication/in_report/rep_no Report number	
!		ddf_doc/publication/in_report/place Place of publication	
!		ddf_doc/publication/in_report/publisher Name of publisher	

ddf\_doc/publication/in\_report/year Year of publication in format yyyy

!

!	ddf_doc/publication/in_report/vol Volume number	
!	ddf_doc/publication/in_report/issue	
!	ddf_doc/publication/in_report/pages In the format Firstpage-Lastpage	22)
!	ddf_doc/publication/in_report/doi Digital Object Identifier	
+	ddf_doc/publication/in_report/uri URI (URL) link to web site of report	
+	ddf_doc/publication/in_report/uri/@access Use to state the accessibility of the linked web site of the report, i.e. "Open Access"	27)
Publication	case – As a book	
ļ	<b>ddf_doc/publication/book</b> Use when the document is an entire book All data is placed in the sub-elements: edition, isbn, place, publisher, publisher no, year, pages, series, uri	

		publisher_no, year, pages, series, uri. Note that in this case, the book title information is placed in ddf_doc/title.	
(§)		<pre>ddf_doc/publication/book/@pub_status Status of publication, like "submitted", "accepted", "published"</pre>	18)
!		ddf_doc/publication/book/edition Book edition, like "2nd rev. ed."	
!	®	ddf_doc/publication/book/isbn ISBN no. without dashes	24)
!	®	ddf_doc/publication/book/isbn/@type Defining type of ISBN, i.e. electronic or primary etc.	29)
!	®	ddf_doc/publication/book/issn Journal ISSN no. without dashes	23 <b>)</b>
!	®	ddf_doc/publication/book/issn/@type Defining type of ISSN, i.e. electronic or primary etc.	29)
!		ddf_doc/publication/book/place Place of publication	
!		ddf_doc/publication/book/publisher Name of publisher	
!		ddf_doc/publication/book/vol Volume number	
!		ddf_doc/publication/book/issue Issue number	
!		ddf_doc/publication/book/year Year of publication in format yyyy	
!		ddf_doc/publication/book/pages Total no. of pages	
!	®	ddf_doc/publication/book/series Book series information (like "Progress in Nanotechnology, vol. 14")	
!		ddf_doc/publication/book/doi Digital Object Identifier	

+		ddf_doc/publication/book/uri	
		URI (URL) link to web site of book	
+		<pre>ddf_doc/publication/book/uri/@access Use to state the accessibility of the linked web site of the book, i.e. "Open Access"</pre>	27)
Dublia	otion on		
Public		se – As a report	
!		ddf_doc/publication/report	
		Use when the document is an entire report All data is placed in the sub-elements: isbn, rep_no, place, publisher, year,	
		pages, uri.	
		Note that in this case, the report title information is placed in ddf_doc/title.	
+		<pre>ddf_doc/publication/report/@pub_status Status of publication, like "submitted", "accepted", "published"</pre>	18)
1	®	ddf_doc/publication/report/isbn	24)
•		ISBN no. without dashes	24)
!	R	ddf_doc/publication/report/isbn/@type	29)
		Defining type of ISBN, i.e. electronic or primary etc.	,
!	R	ddf_doc/publication/report/issn	23)
		Journal ISSN no. without dashes	
!	R	ddf_doc/publication/report/issn/@type	29)
		Defining type of ISSN, i.e. electronic or primary etc.	
!	R	ddf_doc/publication/report/series Report series title	
!		ddf_doc/publication/report/rep_no Report series and number	
!		ddf_doc/publication/report/place Place of publication	
!		ddf_doc/publication/report/publisher	
		Name of publisher	
!		ddf_doc/publication/report/vol	
		Volume number	
!		ddf_doc/publication/report/issue	
!		ddf_doc/publication/report/year	
		Year of publication in format yyyy	
!		ddf_doc/publication/report/pages Total no. of pages	
!		ddf_doc/publication/report/doi Digital Object Identifier	
+		ddf_doc/publication/report/uri	
		URI (URL) link to web site of report	
+		ddf_doc/publication/report/uri/@access Use to state the accessibility of the linked web site of the record, i.e. "Open Access"	27)
Public	cation cas	se – As a patent	

#### Publication case – As a patent

	٠

ddf\_doc/publication/patent Use when the document is a patent (or a patent application) All data is placed in the sub-elements: country, ipc, number, date, uri.

(§)	ddf_doc/publication/patent/@pub_status	
	Status of publication, like "submitted", "accepted", "published" Is mandatory for patent publications because the time from "submitted" to "published" is often long and may cross year boundaries.	18)
!	ddf_doc/publication/patent/country	
	Country of patent issue using ISO country codes	13)
!	ddf_doc/publication/patent/ipc	
	International Patent Classification	20)
!	ddf_doc/publication/patent/number Patent no.	
!	ddf_doc/publication/patent/date Date of status above in format yyyy-mm-dd	
+	ddf_doc/publication/patent/uri URI (URL) link to web site of patent	
+	<b>ddf_doc/publication/patent/uri/@access</b> Use to state the accessibility of linked web site of the patent, i.e. "Open Access"	27)
Publication	case – As an Internet publication	
! ®	ddf_doc/publication/inetpub	
	Use when published electronically on the net (institutional repository, author's homepage, preprint server, etc.) If the document is also published in a journal, book or report, the	

Text describing the service/file behind the URI like "PDF on personal home page", "PDF in institutional repository", "LaTex at arXiv preprint server"

corresponding publication cases should be used in addition. All data is placed in the sub-elements: text and uri.

ddf\_doc/publication/inetpub/text

ddf\_doc/publication/inetpub/uri

ddf\_doc/publication/inetpub/uri/@access

Use to stat the accessibility of the service/file, i.e. "Open Access"

#### Publication case – Digital object

The URI (URL)

(§)

(§)

+

!	ddf_doc/publication/digital_object Use when published in repository managed by the data provider. Typically an institutional repository integrated into a CRIS. If the document is also published on the net in an unmanaged/external repository or website the Internet publication case should be used in addition. A typical case is that to submit a postprint to an institutional repository you must also link to the publisher version, i.e. inetpub.	
	All data is placed in the sub-elements: description, file, uri	
(§)	ddf_doc/publication/digital_object/@id Unique id for the parent record	
!	<b>ddf_doc/publication/digital_object/@role</b> What is the role of the object in relation to the record, i.e. full text "preprint", "postprint", or "publisher version".	30)
(§)	ddf_doc/publication/digital_object/@access Use for stating the access rights for the object i.e. "Open Access", campus access etc.	27)
1	ddf_doc/publication/digital_object/description Description of the digital object	
[§]	ddf_doc/publication/digital_object/embargo_end Embargo end date in the format yyyy-mm-dd	

27)

(§)	<pre>ddf_doc/publication/digital_object/file System generated description of the digital_object</pre>	
I	<pre>ddf_doc/publication/digital_object/file/@lang Language of the file</pre>	2)
[§]	ddf_doc/publication/digital_object/file/@size The size of the file	
!	<pre>ddf_doc/publication/digital_object/file/@mime_type</pre> Mime type for the file must comply with the IANA specifications	25)
[§]	ddf_doc/publication/digital_object/file/@timestamp Timestamp given when the file was change or uploaded	26)
[§]	ddf_doc/publication/digital_object/file/@file Name of the file when it was uploaded	
!	ddf_doc/publication/digital_object/file/description Description of the specific version	
!	ddf_doc/publication/digital_object/uri URI (URL) to the digital object, i.e. in the local repository	

#### Publication case – Other

+	

Use for any other form of publication - if none of the above apply

 $ddf_doc/publication/other$ 

### **OA Link element**

!	R	ddf_doc/oa_link	
		This repeatable element is used to define the direct URL to the electronic Open Access version of the document. The oa_link element is not mandatory but should be used whenever such data is available.	
(§)		ddf_doc/oa_link/@type	33)
		Defines the type of the repository / resolver the URL points to, like "loc", "rem" and "doi" – see note.	
(§)		ddf_doc/oa_link/@version	34)
		Describes the version of the document the URL points to, like "pre", "afv", "pub" and "oth" – see note.	
(§)		ddf_doc/oa_link/@public_access	35)
		Describes the access rights to the document the URL points to, "oa", "ea", "ra", "ca" and "und" – see note.	
!		ddf_doc/oa_link/@license	
		Describes the license attached to the document, if applied, like "cc-by"	
!		ddf_doc/oa_link/@embargo_start	
		Embargo start date, if applied. In the format yyyy-mm-dd	
!		ddf_doc/oa_link/@embargo_end	
		Embargo end date, if applied. In the format yyyy-mm-dd	

(\$) ddf\_doc/oa\_link/@url The URL pointing directly to the electronic file.

# 4. Notes

The notes in this section are referred to in section 2 and 3. They primarily consist of authoritative lists of codes and corresponding display values, which define the controlled vocabularies of a number of key attributes.

In many cases, these vocabularies may be extended by the DDF secretariat, acting as the DDF-MXD maintenance agency. DDF data suppliers needing such extensions should contact the DDF secretariat.

1)	Type of document - codes and display text (for @doc_type)			
Code	Danish text	English text	Comment	
dja	Tidsskrift-artikel	Journal article	Full article	
djl	Tidsskrift-brev til redaktøren	Letter to the editor	Journal letters, letters to editor	
djc	Tidsskrift-kommentar	Journal comment	Comments to the journal	
djr	Tidsskrifts-review article	Journal review article	Review in journal	
djb	Tidskrifts-anmeldelse	Journal book review	Book review	
dna	Avis-artikel	Newspaper article		
db	Bog	Book	An entire book	
dba	Bog-kapitel	Book chapter	A chapter or article in a book	
dbp	Bog forord, leksikonartikel	Book preface, encycl. entry	Entry in encyclopedia, preface to book	
dr	Rapport	Report		
dra	Rapport-kapitel	Report chapter		
dcp	Konference-paper	Conference paper	Full paper	
dca	Konference-abstract	Conference abstract	Abstract only	
dco	Konference-plakat	Conference poster		
dct	Konference-foredrag	Conference talk	Slides, video, audio of talk	
dw	Arbejdspapir, (pr)eprint	Working paper, (pr)eprint	Informal print or Internet publication	
dln	Undervisning-noter	Lecture notes		
dl	Undervisning-forelæsning	Lecture	Slides, video, audio of lecture	
dp	Patent	Patent		
dtd	Afhandling-Doktor	Thesis Doctoral		
dtp	Afhandling-Ph.D.	Thesis PhD		
dtm	Afhandling-Kandidat	Thesis Master		
dtb	Afhandling-Bachelor	Thesis Bachelor		
dtdb	Afhandling-Diploma Bachelor	Thesis Diploma Bachelor		
dts	Studenterrapport	Student report		
dso	Software	Software		
dd	Datasæt	Data set		
drt	Radio/TV-udsendelse	Radio/TV broadcast	Public broadcast	
dx	Udstillingskatalog	Exhibition catalogue		
do	Andet	Other		

See note 21) for valid combinations of @doc\_type, @doc\_review and @doc\_level and comments on the use of these attributes for statistical purposes.

2) Language codes (for @doc\_lang and @xml:lang)

Codes must comply with the W3C rules for xml:lang, namely IETF RFC 3066 and ISO 639.

See <u>http://www.ietf.org/rfc/rfc3066.txt</u> and <u>http://www.w3.org/WAI/ER/IG/ert/iso639.htm</u> and <u>http://www.loc.gov/standards/iso639-2/</u>

In practice this provides for the use of 2-letter (ISO 639-1) as well as 3-letter codes (ISO 639-2). As the 3-letter codes are the most common in the bibliographical context, some illustrative examples (including mappings) are listed below. Please note the extra available codes "mul" and "und" for multiple languages and undetermined language respectively in ISO 639-2.

As an example:

639-2	Danish text	English text	(639-1 equiv.)
dan	Dansk	Danish	da

#### 3) Annual report year of document (for @doc\_year)

A 4-digit year indicating which annual report year ("indberetningsår") the document belongs to. In most cases this will the same as the publication year, but (formal) publishing sometimes is not completed before the following calendar year or even later – a process outside the control of the author and the institution and a process which sometimes is repeated for the same document. The annual report year, on the other hand, documents when the institution considered the document to be completed and ready for listing in the annual report – a process under the control of the institution and which cannot be repeated for the same document. Thus the annual report year may be used for statistical purposes.

)	Indicator for document review process (quality control) (for @doc_review)		
Code	Danish text	English text	Comment
pr	Peer review	Peer review	
or	Andet review	Other review	Editorial, institutional review etc.
nr	Intet review	No review	
und	Ubestemt	Undetermined	The nature of the review process (if any could not be determined

See note 21) for valid combinations of @doc\_type, @doc\_review and @doc\_level and comments on the use of these attributes for statistical purposes.

5)	Indicator for literary scope/level of document (for @doc_level)		
Code	Danish text	English text	Comment
sci	Videnskabelig	Scientific	
edu	Undervisningsrettet	Educational	
pop	Populærvidenskabelig	Popular	
adm	Administrativ	Administrative	Progress reports, Annual reports, etc
und	Ubestemt	Undetermined	The literary scope/level could not be
			determined

See note 21) for valid combinations of @doc\_type, @doc\_review and @doc\_level and comments on the use of these attributes for statistical purposes.

6) Codes for exporting database/institution (for @rec_source)		1
---------------------------------------------------------------	--	---

Codes in alphabetical order:

Code	Danish text
aaa	Arkitektskolen i Aarhus
aardas	Århus Dag- og Aftenseminarium
aas	Aalborg Sygehus
afg	Dansk Institut for Klinisk Epidemiologi
agri	Danmarks JordbrugsForskning
ai	Arbejdsmiljø Information
akf	Amternes og kommunernes forskningsinstitut
ami	Det nationale forskningscenter for Arbejdsmiljø
amr	Arbejdsmiljørådets Service Center
ark	READ - Arkitekt- og designskolerne
au	Aarhus Universitet
aau	Aalborg Universitet

1.	
bio	Det Bioteknologiske Forsknings- og Udviklingsprogramg
bioteknik	Teknologisk Institut. Bioteknik
can cemty	Kræftens Bekæmpelse Center for Evaluering af Medicinsk Teknologivurering
cfb	Center for Børnelitteratur
cuf	
dbi	Dansk Center for Internationale Studier og Menneskerettigheder Danmarks Biblioteksskole
dds	
dfs	Danmarks Designskole Dansk Folkemindesamling
diis	DIIS - Dansk Institut for Internationale Studier
dlh	Danmarks Lærerhøjskole
dmf	Dansk Matematisk Forening
dmu	Dansk Watematisk Foreining Danmarks Miljøundersøgelser
dpi	Danmarks Pædagogiske Institut
dpu	Danmarks Pædagogiske Universitet
dss	Dansk Institut for Sundheds- og Sygeplejeforskning
dtf	Danmarks Transport Forskning
dtu	Danmarks Tekniske Universitet
ens	Energistyrelsen
fak	Forsvarsakademiet
far	Danmarks Farmaceutiske Universitet
for	Forskningsstyrelsen
fou	Forsknings- og udviklingscentret for Hjælpemidler og Rehabilitering
fri	Forskningscenter Risø
fsl	Forskningscenter for Skov og Landskab
ftu	FTU-programmet
geus	Danmarks og Grønlands Geologiske Undersøgelse
hha	Handelshøjskolen i Århus
cbs	Copenhagen Business School
hhs	Handelshøjskole Syd
hvhosp	Hvidovre Hospital
ifg	Institut for grænseregionsforskning
ifo	Institut for Forskning i Idræt og Folkelig Oplysning
itu	IT-universitetet i København
jpsem	Jydsk Pædagogseminarium
ka kab	Kunstakademiets Arkitektskole Danmarks Kunstbibliotek
kas	Københavns Amts Sygehusvæsen
kib	Kunstindustrimuseets Bibliotek
ku	Københavns Universitet
kvl	Københavns Universitet Det Biovidenskabelige Fakultet
mup	Det Materialeteknologiske Udviklingsprogram
nlb	Danmarks Natur- og Lægevidenskabelige Bibliotek
regionh	Region Hovedstadens Hospitaler
ruc	Roskilde Universitet
sbi	By og Byg. Statens Byggeforskningsinstitut
sdu	Syddansk Universitet
seb	Sekretariat for Børnekultur netværk
sfi	SFI – Det Nationale Forskningscenter for Velfærd
shu	Statens Husdyrbrugsforsøg
sji	Statens Jordbrugs- og Fiskeriøkonomiske Institut
sp	Statens Planteavlsforsøg
ssl	Statens Skadedyrslaboratorium
suc	Sydjysk Universitetscenter
SVS	Statens Veterinære Serumlab. og Statens Veterinære. Inst. for Virusforskning

► Further codes may be registered with DDF

7)	Record status codes (for @rec_status)					
Code	Danish text	English text	Comment			
n	Ny post	New record				
с	Rettet post	Corrected/updated record				
d	Slettet post	Deleted record				

Note: Since data is gathered via OAI harvesting, 'new' (n) records should be set as 'updated' (c).

#### 8) Keyword vocabulary/thesaurus (for @key\_type)

Code	Danish text	English text	Comment
fre	Fri/ukontrolleret	Free/uncontrolled	
ini	INIS	INIS	
eud	EUDISED	EUDISED	
ins	INSPEC	INSPEC	
loc	Lokal	Local	

► Further codes may be registered with DDF

### 9) Classification system (for @class\_type)

Code	Danish text	English text	Comment
ddc	Dewey	Dewey	
udc	UDK	UDC	
dk5	DK5	DK5	
def	DEF	DEF	
loc	Lokal	Local	

Further codes may be registered with DDF

## 10) Person roles in relation to document (for @pers\_role)

Code	Danish text	English text	Comment
pau	Forfatter	Author	
pa1	Primær forfatter	Primary author	Optional – if needed to differentiate
pa2	Sekundær forfatter	Secondary author	Optional – if needed to differentiate
ped	Redaktør	Editor	-
ppu	Udgiver	Publisher	
ptr	Oversætter	Translator	
pil	Illustrator	Illustrator	
inv	Opfinder	Inventor	
sup	Vejleder	Supervisor	

### 11) Affiliation reference key (for @aff\_no)

The reference key is a simple number "0"-"999" which uniquely identifies organisations within the document record. The reference key is used to associate a person unambiguously with the organisation to which s/he is affiliated. The reference key is not intended to carry any meaning outside the context of the document record.

#### 12) Identification system codes (for @id\_type)

Code	Danish text	English text	Comment
cpr	CPR nr.	CPR no.	Danish national person identification
cvr	CVR nr.	CVR no.	Danish national enterprise identification
orcid	ORCID ID	ORCID ID	Open Researcher and Contributor ID
ddf_rec	DDF post ID	DDF record ID	Danish Research Database record ID
loc_rec	Lokal post ID	Local record ID	Local (data supplier) record ID*
loc_per	Lokal person ID	Local person ID	Local (data supplier) person ID*
loc_pro	Lokal project ID	Local project ID	Local (data supplier) project
			ID*
loc_org	Lokal organisations-ID	Local organisation ID	Local (data supplier) organisation ID*
loc_eve	Lokal event-ID	Local event ID	Local (data supplier) event ID*
ringgold	Ringgold ID	Ringgold ID	Institutional identifiers provided by Ringgold.com
fi_nfdb	FI national forsker database	e FI national researcher DB	For use with the Danish researcher DB
ec_ga_fp7	EU FP7 Bevillingsaftale nr	. EC FP7 Grant Agreement No.	For use with OpenAIRE compliance and EC Grant Agreement numbers

### ► Further codes may be registered with DDF

\* The local IDs are defined by the data supplying organisations se note 6).

A local ID prefixed with the code of the data-supplying organisation becomes nationally unique.

13)	Countries - codes and	names	
Code	Danish text	English toxt	Commont
	Australien	English text Australia	Comment
au		Australia	
at	Østrig		
ca	Canada Schweiz	Canada Switzerland	
ch			
cn	Kina	China	
de	Tyskland	Germany	
dk	Danmark	Denmark	
es	Spanien	Spain	
fi	Finland	Finland	
fr	Frankrig	France	
gb	Storbritannien	Great Britain	
gr	Grækenland	Greece	
hu	Ungarn	Hungary	
ie	Irland	Ireland	
in	Indien	India	
is	Island	Iceland	
it	Italien	Italia	
jp	Japan	Japan	
nl	Nederlandene	Netherlands	
no	Norge	Norway	
rs	Serbien	Serbia	
ru	Rusland	Russia	
pl	Polen	Poland	
pt	Portugal	Portugal	
se	Sverige	Sweden	
th	Thailand	Thailand	
us	USA	USA	
za	Sydafrika	South Africa	

► Further country codes may be added according to ISO 3166 See <u>http://www.iso.org/iso/en/prods-services/iso3166ma/index.html</u>

		*				
14)	Organisation roles in relation to document (for @org_role)					
Code	Danish text	English toxt	Commont			
	Danish text         English text           Korporativ forfatter         Corporate author		Comment			
oau oaf	Institutionstilknytning	Affiliation				
	Udgiver	Publisher				
opu	Ougiver	ruonsnei				
►	Further codes may be regis	tered with DDF				
15)	Project roles in relation to	o document (for @proj_role)				
Code	Danish text	English text	Comment			
pd	Leverance fra	Deliverable of	••••••			
pr	Relateret til	Related to				
P-						
►	Further codes may be regist	tered with DDF				
16)	Event roles in relation to	document (for @event_role)				
Code	Danish text	English text	Comment			
	Præsenteret ved	English text Presented at	Comment			
ep er	Relateret til	Related to				
CI	Relateret th	Related to				
►	Further codes may be regis	tered with DDF				
17)	Local field types (for @ta	g_type)				
Code	Field treatment in DDF					
1		displayed in search module				
2	Field may be displayed in s					
3	Field may be indexed in sea					
4	Field may be indexed and d	lisplayed in search module				
18)	Status of publication (for	@pub_status)				
Code	Danish text	English text	Comment			
s	Indsendt	Submitted				
a	Accepteret	Accepted				
i	I trykken	In press				
p	Publiceret	Published				
u u	Upubliceret	Unpublished	e.g. grey literature			
19)	Date format for events					
1)	Date format for events					

The start and end dates of events may be recorded as a year (yyyy e.g. "2004"), as a month (yyyy-mm e.g. "2004-11") or as a day (yyyy-mm-dd e.g "2004-11-03")

#### 20) International Patent Classification

The Strasbourg Agreement (of 1971) concerning the International Patent Classification provides for a common classification for patents for invention including published patent applications, utility models and utility certificates. The International Patent Classification (IPC) is a hierarchical system in which the whole area of technology is divided into a range of sections, classes, subclasses and groups. See <a href="http://www.wipo.int/classifications/ipc/en/">http://www.wipo.int/classifications/ipc/en/</a>

#### 21) Valid combinations of values of the 3 attributes @doc\_type, @doc\_review and @doc\_level

#### DDF-MXD - Danish Research Database - Metadata Exchange Format for Documents

@doc_type			@doc_review			@doc_level				
English display text	code	pr	or	nr	und	sci	edu	рор	adm	und
Journal article	dja	pr	or	nr	und	sci	edu	рор		und
Journal letter (to the editor)	djl	pr	or	nr	und	sci	edu	рор		und
Journal comment	djc	pr	or	nr	und	sci	edu	рор		und
Journal review article	djr	pr	or	nr	und	sci	edu	рор		und
Journal book review	djb	pr	or	nr	und	sci	edu	рор		und
Newspaper article	dna		or	nr	und			рор		Und
Book	db	pr	or	nr	und	sci	edu	рор		und
Book chapter	dba	pr	or	nr	und	sci	edu	рор		und
Book preface, encyclopedia article	dbp	pr	or	nr	und	sci	edu	рор		und
Report	dr	pr	or	nr	und	sci	edu		adm	und
Report chapter	dra	pr	or	nr	und	sci	edu		adm	und
Conference paper	dcp	pr	or	nr	und	sci	edu			und
Conference abstract	dca	pr	or	nr	und	sci	edu			und
Conference poster	dco	pr	or	nr	und	sci	edu			und
Conference talk/presentation	dct	pr	or	nr	und	sci	edu			und
Working paper, (pr)eprint,	dw		or	nr	und	sci	edu	рор	adm	und
Lecture notes	dln			nr	und		edu			und
Lecture	dl			nr	und		edu			und
Patent	dp			nr	und	sci				und
Thesis Doctoral	dtd			nr	und	sci				und
Thesis Ph.D.	dtp			nr	und	sci				und
Thesis Master	dtm			nr	und		edu			und
Thesis Bachelor	dtb			nr	und		edu			und
Thesis Diploma Bachelor	dtdb			nr	und		edu			und
Student report	dts			nr	und		edu			und
Software	dso			nr	und	sci	edu		adm	und
Data set	dd			nr	und	sci	edu		adm	und
Radio/TV broadcast	drt			nr	und		edu	рор		und
Other	do	pr	or	nr	und	sci	edu	рор	adm	und

The table above specifies for each @doc\_type value the allowed values of @doc\_review and @doc\_level. For example: "dna" (newspaper article) may be combined with either "or" or "nr" and with "pop".

One may retrieve documents (and statistical figures) using these three attributes in combination. In a number of cases a fourth attribute, @doc\_lang, may be added in order to distinguish between documents in national languages (Danish etc.) and documents in an international language (generally English).

#### 22) Valid page numbering for Firstpage-Lastpage

Format Firstpage-Lastpage must be a range in format of "optional letter+1-6 digits - optional letter+1-6 digits" E.g. S17-S24 and 354-376 are both valid while SS45, S.86, SS97-SS103 are non valid ranges.

#### 23) Valid ISSN format

Format for ISSN is without dashes and should follow: 7 digits plus one digit or x - e.g. 0173083x or 00280453

### 24) Valid ISBN format

Format for ISBN is without dashes and should follow: '9 digits plus digit or x' OR '12 digits plus digit or x' e.g. 0201694972 ; 040669694x ; 0236496273554 ; 026496273556x

#### 25) Mime\_types (for @mime\_types)

Mime\_types must comply with the definitions specified by IANA (Internet Assigned Numbers Authority).

See http://www.iana.org/assignments/media-types/

Timestamp must comply with ISO 8601, i.e. YYYY-MM-DDThh:mm:ssTZD See <a href="http://www.w3.org/TR/NOTE-datetime">http://www.w3.org/TR/NOTE-datetime</a>

7)	Access definitions (for @access)		
Code	Danish text	English text	Comment
oa	Open access	Open access	For use free and open access to resource.
ca	Campus adgang	Campus access	For use with campus only access.
ea	Foreløbig lukket adgang	Embargoed access	For use with publications under an embargo.
na	Ingen offentlig adgang	No public access	For use with non-public and owner only access.

Embargo periods in regards to Open Access must be managed by the data provider, i.e. the access status must be changed locally when the embargo period is ended.

#### 28) bfi\_conference\_no,bfi\_ journal\_no and bfi\_publisher\_no (unique IDs from BFI databases)

Unique IDs used to identify Conference, Journal or Publisher titles in the Danish Agency for Science, Technology and Innovation/Styrelsen for Forskning og Innovation's Bibliometric Research Indicator authoritative databases.

29)	ISSN/ISBN type definition (for @type)		
Code	Danish text	English text	Comment
pri	ISSN/ISBN	ISSN/ISBN	For use with
			primary ISSN/ISBN
ele	E-ISSN/E-ISBN	E-ISSN/E-ISBN	For use with ISSN/ISBN for
			electronic resources.
alt	ISSN/ISBN	ISSN/ISBN	For use with alternative
			ISSN/ISBN
und	ISSN/ISBN	ISSN/ISBN	For use with undefined
			ISSN/ISBN

30)	Digital object definition (for @role)		
Code	Danish text	English text	Comment
pre	Preprint	Preprint	Draft before refereeing and publication
pos	Postprint	Postprint	The refereed, accepted final draft
pub	Forlagsversion	Publisher version	Version as published by publisher
rev	Revideret version	Revised version	Any revisions after the published version

#### 31) National research area (for @role)

Code	Danish text	English text	Comment
sci	Teknik/naturvidenskab	Science/technology	
soc	Samfundsvidenskab	Social science	
hum	Humaniora	Humanities	
med	Sundhedsvidenskab	Medical science	

32)	Sub event types (for @event_type)		
Code	Danish text	English text	Comment
lec	Forlæsning	Lecture	
cla	Undervisningstime	Class	
ses	Session	Session	
tra	Konferencespor	Conference track	
wor	Workshop	Work shop	
33)	Type of OA link (for @type)		
Code	Danish text	English text	Comment
loc	Lokal database	Local repository	For use with URL pointing to a local repository
rem	Ekstern database	Remote repository	For use with URL pointing to a remote repository
doi	doi	doi	For use with URL pointing to a DOI resolver. The DOI name of the entity is represented in the URL
	Version of entity in relation to OA link (for @version)		
34)	Version of entity in relation	n to OA link (for @version)	)
,	•	, , ,	
Code	Danish text	English text	) Comment
Code pre	Danish text Pre-print	English text Preprint	
<b>Code</b> pre afv	<b>Danish text</b> Pre-print Forfatters endelige version	English text	
Code pre	Danish text Pre-print	<b>English text</b> Preprint Authors final version	
Code pre afv pub	Danish text Pre-print Forfatters endelige version Udgivet version	<b>English text</b> Preprint Authors final version Published version Other version	Comment
Code pre afv pub oth 35)	Danish text Pre-print Forfatters endelige version Udgivet version Anden version Access to the entity in relat	English text Preprint Authors final version Published version Other version tion to OA link (for @publi	Comment c_access)
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### Example 1: Book with two editors, one of which is affiliated with a DDF data supplier.

#### Full XML document

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<title><original ><main>Design Principles for Interactive Software</main></original></title> <description>

<abstract xml:lang="eng">

The book addresses the crucial intersection of Human-Computer Interaction (HCI) and software engineering. It examines quality from the perspectives of both HCI and Software Engineering, and then systematically develops and illustrates a framework for reasoning about the interaction between quality concerns from HCI and Software Engineering on the one hand, and critical aspects of software development such as the choice of software architecture and the deployment of software tools. The book presents a framework for future research and development, both in academia and industry, into specialised software architectures, methods and tools for high quality interactive systems. Likely developments over the next few years depend mostly on the development of better formal approaches to the definition of practical and relevant software properties, better ways of describing and comparing software architectures,

and more rigorous and reflective approaches to requirements definition for software tools. The book develops key concepts for guiding the application of these developments to the production of high quality interactive software. </abstract> <note xml:lang="eng">Written by IFIP Working Group 2.7</note> <subject> <keyword key\_type="fre" xml:lang="eng">Human-computer interaction</keyword> <keyword key\_type="fre" xml:lang="eng">Software engineering</keyword> <keyword key\_type="fre" xml:lang="eng">Documentation, theory</keyword> <class class\_type="ddc">005.1</class> <class class\_type="udc">681.3.02</class> </subject> </research\_area area\_code="sci" xml:lang="dan"> Teknik/naturvidenskab</research\_area> </description> <person pers\_role="ped" aff\_no="001"> <name><first>Cristian</first><last>Gram</last></name> <id id type="loc per" id source="dtu">v661</id> <email>cg@imm.dtu.dk</email> </person> <person pers role="ped" aff no="003"> <name><first>Gilbert</first><last>Cockton</last></name> <country>gb</country> </person> <organisation org\_role="oaf" aff\_no="001"> <name xml:lang="eng"> <level1>Technical University of Denmark</level1> <level2>Department of Information Technology</level2> <acronym>DTU\_IT</acronym> </name> <country>dk</country> <uri>http://www.imm.dtu.dk/</uri> </organisation> <organisation org\_role="oau" aff\_no="002"> <name xml:lang="eng"> <level1>International Federation for Information Processing</level1> <level2>Technical Committee 2: Software Theory and Practice</level2> <level3>Working Group 2.7: User Interface Engineering</level3> <acronym>IFIP TC2 WG2.7</acronym> </name> <uri>http://www.ifip.or.at/</uri> </organisation> <organisation org\_role="oaf" aff\_no="003"> <name xml:lang="eng"> <level1>University of Glasgow</level1> </name> <country>gb</country> <uri>http://www.gla.ac.uk/</uri> </organisation> <publication bfi\_publisher\_no="102"> <book pub status="**p**"> <edition>1</edition> <isbn>0412724707</isbn> <place>London</place> <publisher>Chapman and Hall</publisher> <publisher no>102</publisher no> <year>1996</year> <pages>248</pages> <uri>http://www.amazon.com/exec/obidos/ASIN/0412724707/104-9175344-3964725</uri> </book> </publication> </ddf doc>

### Example 2: Conference paper published in proceedings in book form

#### Full XML document

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<title><original><main>Quality Control in Visualization Processes</main></original></title><description>

<abstract xml:lang="eng">

Computer visualizations of planned built environment and infrastructures are increasingly used as a basis for democratic decisions when the impact of the projects is of wide-ranging interests and influence. It is of great importance for the democratic process that all aspects of the material in a project can be trusted as a basis for discussion and decisions among politicians and citizens. This paper describes the objective aspects of the quality of data in the information basis for 3D visualizations and it calculates the precision that can be achieved by the known methods of 3D-CAD visualization. Furthermore, the paper suggests a model that can secure sufficient quality in future visualization work processes by accumulating documentation for both the factual basic data and information that carry the aim and meaning of the message and make this information accessible through the visualization.

</abstract>

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   <title>Professor, arkitekt</title>
   <email>uffe.lentz@aarch.dk</email>
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   <title>Ph.d.-studerende. arkitekt</title>
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#### Example 3: Journal article with one author

#### Full XML document

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      literature in which the separation characteristics of microemulsion electrokinetic
      chromatography (MEEKC) have been investigated. One of the major fields of application for
      MEEKC has been the lipophilicity of chemical substances but the technique has also been
      applied for the analysis of substances within the fields of natural products, pharmaceuticals,
      vitamins, peptides, proteins, and nucleic acid bases as well as nucleosides. An overview of the
      applications is given together with the microemulsions used for each application.
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   <email>shh@dfuni.dk</email>
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