# **DDF-MXD**

# Danish Research Database Metadata Exchange Format for Documents

Version 1.2.1

22 December 2009

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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

## 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

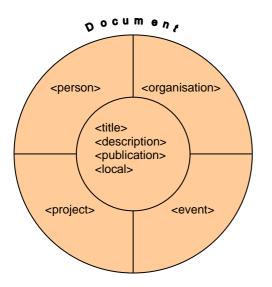
## 1. Introduction

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:



The 4 elements in the centre describe the document itself

- title
- description
- **publication** information
- **local** information

The surrounding 4 elements, which may be repeated, represent entities related to the document:

- person
- organisation
- project
- event

# 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.

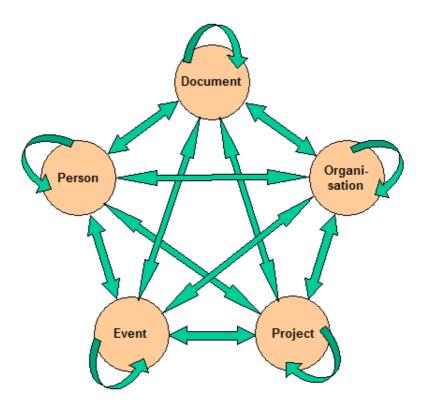
## **Project**

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.1.2.0 can be found at http://mx.forskningsdatabasen.dk/mxd/1.2
   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/mxd/1.2

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

- § Mandatory in all cases.
  - Records without this element or attribute will be rejected.
- (§) **Mandatory** when its parent element is used.
  - In such cases, records without this element or attribute will be rejected
- [ § ] **Mandatory** when its parent element is used and another specified condition is met. In such cases, records without this element or attribute will be rejected
  - ! Required 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).

- + **Recommended** whenever it applies and data is available.
  - These elements or attributes are recommended, as they substantially enhance the functionality and usability of the record.
- Optional 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 - "1.1.0" 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 of the work in focus	
§	The title in the original language	
?	Language of title	
§	Main title	
! ®	Sub title	
+	Part designation of a multipart work ("Vol. 1", "Bind 1" etc)	
?	Any other title information	
? ®	The title translated to another language	
(§)	Language of title	
(§)	Main title	
? ®	Sub title	
?	Part designation of a multipart work ("Vol. 1", "Bind 1" etc)	
?	Any other title information	
	+ ? ? ® (§) (§)	\$ The title in the original language ? Language of title \$ Main title ! ® Sub title + Part designation of a multipart work ("Vol. 1", "Bind 1" etc) ? Any other title information ? ® The title translated to another language (\$) Language of title (\$) Main title ? ® Sub title ? Part designation of a multipart work ("Vol. 1", "Bind 1" etc)

scription>	!		
<abstract></abstract>	! ®	Summary of content	
@xml:lang	?	Language of abstract	
<note></note>	? ®	Any descriptive note	
@xml:lang	?	Language of note	
<thesis></thesis>	!	Special thesis note	
<institution></institution>	!	Name of the academic institution awarding the degree	
<advisor></advisor>	+	Name of the academic advisor/supervisor	
<aw_date></aw_date>	+	Date of awarded degree in format yyyy-mm-dd	
<other></other>	?	Any other information	
<subject></subject>	!	Subject description	
<keyword></keyword>	! ®		
@key_type	(§)	Vocabulary/theasurus used, like "EUDISED", "INSPEC" or "free"	
@xml:lang	?	Language of keyword	
<class></class>	! ®		
@class_type	(§)	Classification system used, like "DDC", "UDC", "DEF", "DK5"	
@xml:lang	?	Language of classification	
<research_area></research_area>	!	Special national research area, used by DASTI	
@area_code	(§)	One of four national research areas.	<u> </u>
@xml:lang	?	Language of research area	

erson>	! ®	Person related to the document (in the same sequence as in document)	
@pers_role	(§)	Role of the person in relation to the document (see note)	ŀ
@aff_no	(§)	Reference no. of the affilition within the record (links person to organisation)	-
<name></name>	(§)		
<first></first>	(§)	First name (personal name) or initials	
<last></last>	(§)	Last name (family name)	
<id></id>	? ®	Identification number or code	
@id_type	(§)	Type of ID, registered with DDF - like Danish CPR no.	ŀ
@id_source	+	Source of the person-ID, i.e. aau, cbs etc. only for use with the Danish DNFD	
<title>&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;birthdate&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;&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>			

organisation>		Organisation related to the document, information formatted as below	
@org_role	§ ®	Role of the organisation in relation to the document (see note)	1
@aff_no	§ §	Reference no. of the affilition within the record (links person to organisation)	
earl_no   ename>	§ ®	Name - only repeatable in case of language variants	
@xml:lang	[§]	Language of organisation name (mandatory if name is repeated)	
<li><level1></level1></li>		Name of highest organisational level (example: university)	
<level2></level2>	<u> </u>	Name of second organisational level (example: university)  Name of second organisational level (example: faculty)	
	:		
<level3></level3>	- :	Name of third organisational level (example: institute, department)	
<level4></level4>	<u>!</u>	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.	1
<country></country>	+	Country of legal residence using ISO country codes	1
<uri></uri>	?	URI (URL) link to web page	
project>	! R	Project related to the document, information formatted as below	
@proj_role		Role of the project in relation to the document (see note)	1
<title>&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;(§) ®&lt;/td&gt;&lt;td&gt;Title - only repeatable in case of language variants&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 project 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;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;1&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;acronym&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Acronym&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;id&gt;&lt;id&gt;&lt;&lt;/td&gt;&lt;td&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;@id type&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Type of ID, registered with DDF - like local project number&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;tr&gt;&lt;th&gt;Null /&lt;/th&gt;&lt;th&gt;&lt;del&gt;&lt;/del&gt;&lt;/th&gt;&lt;th&gt;ON (ONE) min to web page&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;event&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Event (like conference) related to the document&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@event_role&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Role of the event in relation to the document (see note)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@dasti conference no&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;DASTI conference number from the DASTI conference database&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;(0) (0)&lt;/td&gt;&lt;td&gt;&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;(S) (B)&lt;/td&gt;&lt;td&gt;litle - only repeatable in case of language variants&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 - only repeatable in case of language variants  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; 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    &lt;pre&gt;&lt;acronym&gt;     &lt;number&gt; &lt;dates&gt;     &lt;start&gt;     &lt;end&gt; &lt;place&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;[§]&lt;br&gt;(§)&lt;br&gt;!&lt;br&gt;!&lt;br&gt;!&lt;br&gt;(§)&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;Language of the event title (mandatory if title is repeated)  Full title, like "European Conference on Digital Libraries"  Acronym title, like "ECDL"  Number in series of recurrent events, like "8"  First day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy  Last day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy  Place (city, country) of the event/conference&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;full&gt;     &lt;pre&gt;&lt;acronym&gt;     &lt;number&gt; &lt;dates&gt;     &lt;start&gt;     &lt;end&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;[§]&lt;br&gt;(§)&lt;br&gt;!&lt;br&gt;!&lt;br&gt;!&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;Language of the event title (mandatory if title is repeated)  Full title, like "European Conference on Digital Libraries"  Acronym title, like "ECDL"  Number in series of recurrent events, like "8"  First day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy  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; 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<del></del>	!		
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# DDF-MXD - Danish Research Database - Metadata Exchange Format for Documents

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@access	+	Use to state the accessibility of the linked article, i.e. "Open Access"	
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@pub_status	(§)	Status of publication, like "submitted", "accepted", "published"	
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<number></number>	!	Patent no.	
<date></date>	!	Date of status above in format yyyy-mm-dd	
<uri></uri>	+	URI (URL) link to web site of patent	
@access	+	Use to state the accessibility of the linked article, i.e. "Open Access"	
<inetpub></inetpub>	! ®	Use when epublished on the net (web page, preprint server)	
<text></text>	(§)	Text describing the file and service: "PDF on personal home page"	
<uri></uri>	(§)	The URI (URL)	
@access	+	Use to state the accessibility of the linked article, i.e. "Open Access"	
<digital_object></digital_object>	! ®		
@id	(§)	Unique id for the parent record	
@role	!	What is the role of the object in relation to the record ie. Postprint	
@access	(§)	Use for stating the access rights for the object ie. "Open Access"	
<description></description>	!	Description of the specific digital object	
<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	
@timestamp	[§]	Timestamp given when the file was change or uploaded	
@filename	[§]	Name of the file when uploaded	
<description></description>	!	Description of the specific version	
<uri></uri>	!	URI (URL) to the digital object ie. in the local repository	
<other></other>	+	Use for any other form of publication if none of the above apply	

#### 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

- Mandatory in all cases.

  Pecords without this element or attribute will be reject.
  - Records without this element or attribute will be rejected.
- (S) Mandatory when its parent element is used.
  In such cases, records without this element or attribute will be rejected
- [ § ] **Mandatory** when its parent element is used and another specified condition is met In such cases, records without this element or attribute will be rejected
  - ! Required 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).

- + **Recommended** whenever it applies and data is available.
  - These elements or attributes are recommended, as they substantially enhance the functionality and usability of the record.
- Optional 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

Notes

#### **Root element**

S ddf doc 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/title ddf\_doc/description ddf\_doc/person ddf\_doc/organisation ddf\_doc/project ddf\_doc/event ddf\_doc/local ddf\_doc/publication and the mandatory attributes described below: 8 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. 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. 1) 8 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. 2) 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. 3) S 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. 4) ddf doc/@doc level 8 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. 5) S 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 6) database codes. \$ 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. S ddf doc/@rec created Date when the record was first created in the local database in the format yyyy-mm-dd 8 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. 7)

# Title element

Ş		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)	
§		ddf_doc/title/original The title in the original language – use sub-elements below	
?		<pre>ddf_doc/title/original/@xml:lang Language of title</pre>	2)
S		<pre>ddf_doc/title/original/main Main title</pre>	
+	®	<pre>ddf_doc/title/original/sub Sub title</pre>	
+		<pre>ddf_doc/title/original/part Part designation of a multipart work ("Vol. 1", "Bind 1" etc)</pre>	
?		ddf_doc/title/original/other  Any other title information	
?	®	<pre>ddf_doc/title/translated The title translated to another language – use sub-elements below</pre>	
(§)		<pre>ddf_doc/title/translated/@xml:lang Language of title</pre>	2)
(§)		<pre>ddf_doc/title/translated/main</pre> Main title	
?	R	<pre>ddf_doc/title/translated/sub Sub title</pre>	
?		<pre>ddf_doc/title/translated/part Part designation of a multipart work ("Vol. 1", "Bind 1" etc)</pre>	
?		<pre>ddf_doc/title/translated/other Any other title information</pre>	

# **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).
!	R	ddf_doc/description/abstract Summary of content
?		ddf_doc/description/abstract/@xml:lang Language of abstract
?	®	<pre>ddf_doc/description/note Any descriptive note</pre>
?		<pre>ddf_doc/description/note/@xml:lang Language of note</pre>
!		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
!		<pre>ddf_doc/description/thesis/institution Name of he academic institution awarding the degree</pre>
+		ddf_doc/description/thesis/advisor  Name of the academic advisor/supervisor
+		<pre>ddf_doc/description/thesis/aw_date</pre> Date of awarded degree in format yyyy-mm-dd
?		ddf_doc/description/thesis/other  Any other information
!		<pre>ddf_doc/description/subject Subject description - use sub-elements below.</pre>
!	R	<pre>ddf_doc/description/subject/keyword Keywords – whether free or controlled.</pre>
(§)		ddf_doc/description/subject/keyword/@key_type Vocabulary/theasurus used, like "EUDISED", "INSPEC" or "free"
?		<pre>ddf_doc/description/subject/keyword/@xml:lang Language of keyword</pre>
!	R	ddf_doc/description/subject/class Classification codes according to the system declared in the attribute below.
(§)		<pre>ddf_doc/description/subject/class/@class_type Classification system used, like "DDC", "UDC", "DEF", "DK5"</pre>
?		<pre>ddf_doc/description/subject/class/@xml:lang Language of classification</pre>

#### ! ddf doc/description/research area

Special national research area used by the Danish Agency for Science, Technology and Innovation.

#### (S) 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

#### ! R 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:

person/name (split in first and last name),

person/id (various forms of identification numbers - optional),

person/title (personal title - optional),

person/birthdate (optional),

person/country (of citizenship - recommended),

person/address (postal - optional),

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

#### (S) ddf\_doc/person/name/first

First name (personal name) or initials

#### (S) 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 Danish CPR no.

12)

6)

#### Ţ ddf\_doc/person/@id\_source

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.

#### ddf doc/person/title ?

Personal title related to academic degree and/or job function.

#### ? ddf doc/person/birthdate

In format yyyy-mm-dd

## **Organisation element**

#### § ® 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)

#### § ddf\_doc/organisation/@org\_role

Role of the organisation in relation to the document (see note for authorised values) 14)

§ ddf\_doc/organisation/@aff\_no

Internal reference no. of the organisation. Is used to link persons with the right affiliation.

# § ® 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)

§ 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

? ® 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

Country of legal residence using ISO country codes

13)

15)

2)

12)

#### ? ddf\_doc/organisation/uri

URI (URL) link to web page

# **Project element**

#### ! ® 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:

project/title (split in main and sub and acronym),
project/id (optional)

project/uri (link to web page - optional)

### (§) ddf\_doc/project/@proj\_role

Role of the project in relation to the document (see note for authorised values)

#### (§) ® 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)

(§) ddf\_doc/project/title/main

Main title

! ddf\_doc/project/title/sub

Sub title

! ddf\_doc/project/title/acronym

Acronym

#### 

Identification number or code

(§) ddf\_doc/project/id/@id\_type

Type of ID, registered with DDF - like local project number

? ddf\_doc/project/uri

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/@dasti_conference_no	
		DASTI conference number from the DASTI conference database	26)
(§)	®	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	_
?		ddf_doc/event/uri	
		URI (URL) link to web page	

# 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	
(-)		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	
(§)		<pre>ddf_doc/local_field/subfield/data Subfield data</pre>	

#### **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".

#### 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.

(§) ddf\_doc/publication/in\_journal/title

Journal title

## ! ddf\_doc/publication/in\_journal/title\_alternative

Alternative title of the journal, i.e. former title, title in other languages, title from different data sources.

#### ! @ ddf\_doc/publication/in\_journal/issn

23**)** 

Journal ISSN no. without dashes

#### ! @ ddf\_doc/publication/in\_journal/issn/@type

29)

Defining type of ISSN, i..e. electronic or primary etc.

# ! 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

Issue number

#### ! 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/journal_no	
		Unique journal number from the DASTI journal database, only publications with this unique id will be counted for by the DASTI Bibliometric Research Indicator. This is only applicable for universities and research institutions included in the Bibliometric Research Indicator.	
+		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	27)
		Use to state the accessibility of the linked article, i.e. "Open Access"	
Publica	ation 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)
(§)		<pre>ddf_doc/publication/in_book/title Book title</pre>	
+		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.)	
!		<pre>ddf_doc/publication/in_book/edition Book edition, like "2nd rev. ed."</pre>	
!		<pre>ddf_doc/publication/in_book/editor Name of the (first) editor of the book</pre>	
!	®	ddf_doc/publication/in_book/isbn ISBN no. without dashes	24)
!	®	ddf_doc/publication/in_book/isbn/@type Defining type of ISBN, ie. electronic or primary etc.	29)
!	®	ddf_doc/publication/in_book/issn Journal ISSN no. without dashes	23)
!	®	ddf_doc/publication/in_book/issn/@type Defining type of ISSN, ie. electronic or primary etc.	29)
!		ddf_doc/publication/in_book/place Place of publication	
!		<pre>ddf_doc/publication/in_book/publisher Name of publisher</pre>	
!		<pre>ddf_doc/publication/in_book/year Year of publication in format yyyy</pre>	
!		<pre>ddf_doc/publication/in_book/pages In the format Firstpage-Lastpage</pre>	22)
!	®	<pre>ddf_doc/publication/in_book/series Book series information (like "Progress in Nanotechnology, vol. 14")</pre>	
!		ddf doc/publication/in book/publisher no	28

Unique publisher number from the DASTI journal database, only publications with this unique id will be counted for by the DASTI Bibliometric Research Indicator. This is only applicable for universities and research institutions included in the Bibliometric Research Indicator.

+ ddf\_doc/publication/in\_book/uri

URI (URL) link to web site of book

+ ddf doc/publication/in book/uri/@access

27)

Use to state the accessibility of the linked web site of the book, i.e. "Open Access"

#### Publication case - 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.

+ ddf\_doc/publication/in\_report/@pub\_status

Status of publication, like "submitted", "accepted", "published"

(§) 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

24)

ISBN no. without dashes

! @ ddf\_doc/publication/in\_report/isbn/@type

29)

Defining type of ISBN, i..e. electronic or primary etc.

! ddf\_doc/publication/in\_report/rep\_no

Report series and 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/pages

22)

In the format Firstpage-Lastpage

! ddf\_doc/publication/in\_report/publisher\_no

28)

Unique publisher number from the DASTI journal database, only publications with this unique id will be counted for by the DASTI Bibliometric Research Indicator. This is only applicable for universities and research institutions included in the Bibliometric Research Indicator.

+ ddf\_doc/publication/in\_report/uri

URI (URL) link to web site of report

+ ddf\_doc/publication/in\_report/uri/@access

27)

Use to state the accessibility of the linked web site of the report, i.e. "Open Access"

#### Publication case - As a book

!		ddf_doc/publication/book	
		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. 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, ie. electronic or primary etc.	29)
!		<pre>ddf_doc/publication/book/place Place of publication</pre>	
!		<pre>ddf_doc/publication/book/publisher Name of publisher</pre>	
!		ddf_doc/publication/book/publisher_no Unique publisher number from the DASTI journal database, only publications with this unique id	28)
		will be counted for by the DASTI Bibliometric Research Indicator. This is only applicable for universities and research institutions included in the Bibliometric Research Indicator.	
!		<pre>ddf_doc/publication/book/year Year of publication in format yyyy</pre>	
!		<pre>ddf_doc/publication/book/pages Total no. of pages</pre>	
!	R	ddf_doc/publication/book/series Book series information (like "Progress in Nanotechnology, vol. 14")	
+		ddf_doc/publication/book/uri URI (URL) link to web site of book	
+		ddf_doc/publication/book/uri/@access  Use to state the accessibility of the linked web site of the book, i.e. "Open Access"	27)
Publica	ation case -	- 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.	
+		ddf_doc/publication/report/@pub_status Status of publication, like "submitted", "accepted", "published"	18)
!	R	ddf_doc/publication/report/isbn ISBN no. without dashes	24)
!		<pre>ddf_doc/publication/report/rep_no Report series and number</pre>	
!		ddf_doc/publication/report/place Place of publication	
!		<pre>ddf_doc/publication/report/publisher Name of publisher</pre>	
		ddf dog/nublication/report/wear	

	Year of publication in format yyyy	
!	ddf_doc/publication/report/pages	
	Total no. of pages	
ı	ddf doc/publication/report/publisher no	28
	Unique publisher number from the DASTI journal database, only publications with this unique id will be counted for by the DASTI Bibliometric Research Indicator. This is only applicable for universities and research institutions included in the Bibliometric Research Indicator.	
+	ddf_doc/publication/report/uri	
	URI (URL) link to web site of report	
+	ddf_doc/publication/report/uri/@access	27
	Use to state the accessibility of the linked web site of the record, i.e. "Open Access"	
Publication	on case – As a patent	
!	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)
!	<pre>ddf_doc/publication/patent/number Patent no.</pre>	
!	<pre>ddf_doc/publication/patent/date Date of status above in format yyyy-mm-dd</pre>	
+	<pre>ddf_doc/publication/patent/uri URI (URL) link to web site of patent</pre>	
+	ddf_doc/publication/patent/uri/@access	27
	Use to state the accessibility of linked web site of the patent, i.e. "Open Access"	
Publicatio	on case – As an Internet publication	
<b>!</b> (	<pre>      ddf_doc/publication/inetpub </pre>	
	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 corresponding publication cases should be used in addition.  All data is placed in the sub-elements: text and uri.	
(§)	ddf_doc/publication/inetpub/text	
	Text describing the service/file behind the URI like "PDF on personal home page", "PDF in institutional repository", "LaTex at arXiv preprint server"	
(§)	ddf_doc/publication/inetpub/uri	
	The URI (URL)	
+	<pre>ddf_doc/publication/inetpub/uri/@access Use to stat the accessibility of the service/file, i.e. "Open Access"</pre>	27)
Publicatio	on case – Digital object	
. abiicalit		

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

	All data is placed in the sub-elements: description, file, un	
(§)	<pre>ddf_doc/publication/digital_object/@id Unique id for the parent record</pre>	
1	<pre>ddf_doc/publication/digital_object/@role What is the role of the object in relation to the record, i.e. full text "preprint", "postprint",or "publisher version".</pre>	30)
(§)	<pre>ddf_doc/publication/digital_object/@access</pre> Use for stating the access rights for the object i.e. "Open Access", campus access etc.	27)
!	<pre>ddf_doc/publication/digital_object/description Description of the digital object</pre>	
(§)	<pre>ddf_doc/publication/digital_object/file System generated description of the digital_object</pre>	
!	<pre>ddf_doc/publication/digital_object/file/@lang Language of the file</pre>	2)
[§]	<pre>ddf_doc/publication/digital_object/file/@size</pre> 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)
[§]	<pre>ddf_doc/publication/digital_object/file/@timestamp</pre> Timestamp given when the file was change or uploaded	26)
[§]	<pre>ddf_doc/publication/digital_object/file/@file Name of the file when it was uploaded</pre>	
!	<pre>ddf_doc/publication/digital_object/file/description Description of the specific version</pre>	
1	ddf_doc/publication/digital_object/uri	

## Publication case - Other

### + ddf\_doc/publication/other

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

URI (URL) to the digital object, i.e. in the local repository

## 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		Journal letters, letters to editor
	Tidsskrift-kommentar	Journal comment	Comments to the journal
dje	Tidsskrifts-review article	Journal review article	
djr			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	r
dl	Undervisning-forelæsning	Lecture	Slides, video, audio of lecture
dp	Patent	Patent	Silves, viace, addie of feetale
dtd	Afhandling-Doktor	Thesis Doctoral	
dtp	Afhandling-Ph.D.	Thesis PhD	
dtm	Afhandling-Kandidat	Thesis Master	
dts	Studenterrapport	Student report	
	Software	Software	
dso		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
dd	Datasæt	Data set	D 11' 1 1 1
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 <a href="http://www.ietf.org/rfc/rfc3066.txt">http://www.ietf.org/rfc/rfc3066.txt</a> and <a href="http://www.w3.org/WAI/ER/IG/ert/iso639.htm">http://www.w3.org/WAI/ER/IG/ert/iso639.htm</a> and <a href="http://www.loc.gov/standards/iso639-2/">http://www.loc.gov/standards/iso639-2/</a>

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.

## 4) 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)

Codes in alphabetical order:

0 - 1 -

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

Daniel (2001

bio Det Bioteknologiske Forsknings- og Udviklingsprogramg

bioteknik Teknologisk Institut. Bioteknik

can Kræftens Bekæmpelse

cemtv Center for Evaluering af Medicinsk Teknologivurering

cfb Center for Børnelitteratur

cuf Dansk Center for Internationale Studier og Menneskerettigheder

dbi Danmarks Biblioteksskole dds Danmarks Designskole dfs Dansk Folkemindesamling dlh Danmarks Lærerhøjskole dmf Dansk Matematisk Forening dmu Danmarks Miljøundersøgelser Danmarks Pædagogiske Institut dpi 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

hhs Handelshøjskole Sy 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 Kunstakademiets Arkitektskole
kab 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

ruc Roskilde Universitet

sbi By og Byg. Statens Byggeforskningsinstitut

sdu Syddansk Universitet

seb Sekretariat for Børnekultur netværk

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	
c	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)

<b>Code</b> fre	<b>Danish text</b> Fri/ukontrolleret	English text Free/uncontrolled	Comment
ini	INIS	INIS	
eud	EUDISED	EUDISED	
ins	INSPEC	INSPEC	
loc	Lokal	Local	
	Further codes may be r	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	
	Further codes may be regist	tered with DDF	

## 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
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*
fi nfdb	FI national forsker database	e FI national researcher DE	B For use with the Danish researcher DB

<sup>►</sup> Further codes may be registered with DDF

### 13) Countries - codes and names

Code	Danish text	English text	Comment
au	Australien	Australia	
at	Østrig	Austria	
ca	Canada	Canada	
ch	Schweiz	Switzerland	
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	
jр	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 <a href="http://www.iso.org/iso/en/prods-services/iso3166ma/index.html">http://www.iso.org/iso/en/prods-services/iso3166ma/index.html</a>

## 14) Organisation roles in relation to document (for @org\_role)

Code	Danish text	English text	Comment
oau	Korporativ forfatter	Corporate author	
oaf	Institutionstilknytning	Affiliation	
opu	Udgiver	Publisher	

Further codes may be registered with DDF

# 15) Project roles in relation to document (for @proj\_role)

Code	Danish text	English text	Comment
pd	Leverance fra	Deliverable of	
pr	Relateret til	Related to	

► Further codes may be registered with DDF

<sup>\*</sup> 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.

## 16) Event roles in relation to document (for @event\_role)

Code	Danish text	English text	Comment
en	Præsenteret ved	Presented at	

er Relateret til Related to

## ► Further codes may be registered with DDF

# 17) Local field types (for @tag\_type)

#### Code Field treatment in DDF

- Field is neither indexed nor displayed in search module
- 2 Field may be displayed in search module
- 3 Field may be indexed in search module
- 4 Field may be indexed and displayed 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	

### 19) 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>

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

@doc_type		@doc_review			@doc_level					
English display text	code	pr	or	nr	und	sci	edu	pop	adm	und
Journal article	dja	pr	or	nr	und	sci	edu	pop		und
Journal letter (to the editor)	djl	pr	or	nr	und	sci	edu	pop		und
Journal comment	djc	pr	or	nr	und	sci	edu	pop		und
Journal review article	djr	pr	or	nr	und	sci	edu	pop		und
Journal book review	djb	pr	or	nr	und	sci	edu	pop		und
Newspaper article	dna		or	nr	und			pop		Und
Book	db	pr	or	nr	und	sci	edu	pop		und
Book chapter	dba	pr	or	nr	und	sci	edu	pop		und
Book preface, encyclopedia article	dbp	pr	or	nr	und	sci	edu	pop		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	pop	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
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	pop		und
Other	do	pr	or	nr	und	sci	edu	pop	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/

## 26) Timestamp

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>

#### 27) 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.
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) dasti conference no, journal no and publisher no (unique IDs from DASTI databases)

Unique IDs used to identify Conference, Journal or Publisher titles in the DASTI (Danish Agency for Science, Technology and Innovation/Forsknings- og Innovationsstyrelsen) Bibliometric Research Indicator database.

29)	ISSN/ISBN type definition	on (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	
301		~	
soc	Samfundsvidenskab	Social science	
-	Samfundsvidenskab Humaniora	Social science Humanities	

# 5. Examples

## Example 1: Book with two editors, one of which is affiliated with a DDF data supplier.

#### **Full XML document**

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.

```
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      <level2>Department of Information Technology</level2>
      <acronym>DTU_IT</acronym>
   </name>
   <country>dk</country>
   <uri>http://www.imm.dtu.dk/</uri>
</organisation>
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      <level2>Technical Committee 2: Software Theory and Practice</level2>
      <level3>Working Group 2.7: User Interface Engineering</level3>
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<acronym>IFIP_TC2_WG2.7</acronym>
      </name>
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   </organisation>
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      </name>
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   </organisation>
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         <publisher>Chapman and Hall/publisher>
         <publisher no>102</publisher no>
         <year>1996</year>
         <pages>248</pages>
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      </book>
   </publication>
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## Example 2: Conference paper published in proceedings in book form

#### **Full XML document**

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```
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<description>
  <abstract xml:lang="eng">
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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.

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         <keyword key_type="fre" xml:lang="eng">Process Model</keyword>
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      </subject>
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   <person pers role="pau" aff no="001">
      <name><first>Uffe</first><last>Lentz</last></name>
      <title>Professor. arkitekt</title>
      <email>uffe.lentz@aarch.dk</email>
      <uri>http://aarch.dk/arkitektskolen_aarhus/personale/persondata/uffe-lentz/</uri>
   </person>
   <person pers role="pau" aff no="001">
      <name><first>Andreas</first><last>Lvkke-Olsen</last></name>
      <title>Ph.d.-studerende, arkitekt</title>
      <email>andreas.lvkke-olesen@aarch.dk</email>
      <uri>http://aarch.dk/arkitektskolen_aarhus/personale/persondata/andreas-lykke-olesen/</uri>
   </person>
   <organisation org role="oaf" aff no="001">
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## **Example 3: Journal article with one author**

#### **Full XML document**

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<abstract xml:lang="eng">

Microemulsions are used in a similar way as micellar solutions are used for separations in capillary electrophoresis. Within the last six years, a number of papers have appeared in the 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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   <person pers role="pau" aff no="001">
      <name><first>Steen Honore</first><last>Hansen</last></name>
      <email>shh@dfuni.dk</email>
      <uri>http://www.dfh.dk/index.php?id=1338</uri>
   </person>
   <organisation org role="oaf" aff no="001">
      <name xml:lang="eng">
         <level1>The Danish University of Pharmaceutical Sciences</level1>
         <level2>Department of Analytical Chemistry</level2>
         <acronym>DFU</acronym>
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         <doi>10.1002/elps.200305637</doi>
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</ddf doc>
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