# **DDF-MXD**

# Danish Research Database

# **Metadata Exchange Format for Documents**

Release candidate 1.3.1-rc0

6 May 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

## 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 (<a href="www.openaire.eu">www.openaire.eu</a>). 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

# 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  $in\_report$ ,  $in\_book$  and book has been harmonized so that all types includes the elements: doi>, doi>,

Version 1.3.1 6 May 2015

Birthe Krog, editor

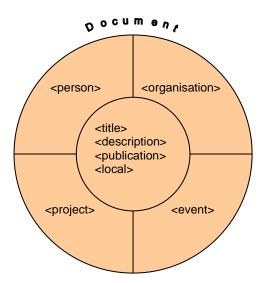
#### 1. Introduction

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:



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.

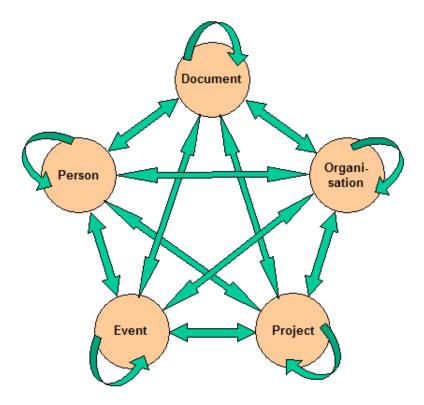
# **Project**

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.1.3.0 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

- § 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 - "1.3.1" 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:		_	70. (4)	_
<title>&lt;/td&gt;&lt;td&gt;&lt;u&gt;§&lt;/u&gt;&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;&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;&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;_&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;R)&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;part&gt; &lt;ptcode color="block"&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&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;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;6&lt;/td&gt;&lt;td&gt;Any other title information&lt;/td&gt;&lt;td&gt;&lt;math&gt;\dashv&lt;/math&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;translated&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&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;_&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;_&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;®&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;&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;_&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;/td&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;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;R&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;&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;®&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;&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;&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;&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;&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;&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;&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;&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;R&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;&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;_&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;R&lt;/td&gt;&lt;td&gt;01 '7 '7 '&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;&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;&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;pre&gt;&lt;research_area&gt;     @area_code&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;(8)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Special national research area, used by DASTI  One of four national research areas.&lt;/td&gt;&lt;td&gt;24&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;?&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Language of research area&lt;/td&gt;&lt;td&gt;31&lt;br&gt;2&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xiiii.iaiig&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;td&gt;Language of research area&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;L&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;&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;&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;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Reference no. of the affilition within the record (links person to organisation)&lt;/td&gt;&lt;td&gt;11&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;name&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;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;first&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&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;last&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;6&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;id&gt;&lt;&lt;/td&gt;&lt;td&gt;&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;L&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;&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;_&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;_&lt;/td&gt;&lt;td&gt;In format yyyy-mm-dd&lt;/td&gt;&lt;td&gt;Н.&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;_&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;&lt;u&gt;                                     &lt;/u&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;H&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;&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)
@aff_no	§	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>	į į	Name of second organisational level (example: faculty)
<level3></level3>	1	Name of third organisational level (example: institute, department)
<level4></level4>	<del>i</del>	Name of fourth organisational level (example: section, center, division)
<acronym></acronym>	<del></del>	Acronym
<id><id>&lt;</id></id>	? ®	Identification number or code
_		
@id_type	(§)	Type of ID, registered with DDF - like Danish CVR no.
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<uri></uri>	?	URI (URL) link to web page
project>	! ®	Project related to the document, information formatted as below
@proj_role	(§)	Role of the project in relation to the document (see note)
	(§) ®	Title - only repeatable in case of language variants
@xml:lang	(§) [§]	Language of project title (mandatory if title is repeated)
<main></main>	(§)	Main title
<sub></sub>	- !	Sub title
<acronym></acronym>		Acronym
<id></id>	? ®	Identification number or code
@id_type	(§)	Type of ID, registered with DDF - like local project number
<uri></uri>	?	URI (URL) link to web page
event>	! ®	Event (like conference) related to the document
		· · · · · · · · · · · · · · · · · · ·
@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;&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;/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;/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;/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 the event&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;number&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Number in series of recurrent events, like "8"&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;/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;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;end&gt;&lt;/td&gt;&lt;td&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;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;(3)&lt;/td&gt;&lt;td&gt;Place (city, country) of the event/conference&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;place&gt; &lt;sub_event&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;!&lt;br&gt;! ®&lt;/td&gt;&lt;td&gt;Sub event (like track or lecture) related to the main event and the document&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@event_type&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;/tr&gt;&lt;tr&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;title&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;/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;/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;/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;/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;/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;/tr&gt;&lt;tr&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;/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;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;9 1 7&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 field&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;Field code (tag) using a-z (upper or lower case) and 0-9 only&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;data&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Field data&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;subfield&gt;&lt;/td&gt;&lt;td&gt;? ®&lt;/td&gt;&lt;td&gt;Sub tag&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;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;code&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Subfield code (tag) using a-z (upper or lower case) and 0-9 only&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>		

blication>	§	Use one (minimum) or more of the cases below	
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@bfi_serial_no	!	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"	
<title>&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Journal title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;title_alternative&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Alternative journal title, i.e. former title, title from other data sources and languages&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;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;7&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 (when Paper ID, the number of pages)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;paperid&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Paper ID&lt;/td&gt;&lt;td&gt;T&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;uri&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;URI (URL) link to article on journal web site&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;T&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;in_book&gt;&lt;/td&gt;&lt;td&gt;&lt;del&gt;- i&lt;/del&gt;&lt;/td&gt;&lt;td&gt;Use for chapters, papers published as a part of a book (incl. proceedings)&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;Book 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;Book sub title&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;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&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;edition&gt;&lt;/td&gt;&lt;td&gt;&lt;u&gt;:&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Book edition, like "2. rev. udg."&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 book&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;ISBN no. without dashes&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;! ®&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;H&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;4&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;publisher&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Name of publisher&lt;/td&gt;&lt;td&gt;4&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;year&gt;&lt;/td&gt;&lt;td&gt;&lt;u&gt;!&lt;/u&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;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;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;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;Ī&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;T&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;T&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;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;part&gt;&lt;/td&gt;&lt;td&gt;ı&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;i&lt;/td&gt;&lt;td&gt;Name of the editor of the report&lt;/td&gt;&lt;td&gt;T&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;isbn&gt;&lt;/td&gt;&lt;td&gt;I R&lt;/td&gt;&lt;td&gt;ISBN no. without dashes&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@type&lt;/td&gt;&lt;td&gt;. 0&lt;/td&gt;&lt;td&gt;Defining electronic or print ISBN&lt;/td&gt;&lt;td&gt;ŀ&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;&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;&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;@type&lt;/td&gt;&lt;td&gt;l ®&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;rep_no&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Report number 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;place&gt;&lt;/pre&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;publisher&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;4&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;4&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;4&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;paperid&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Paper ID&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;10.017&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;uri&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;URI (URL) link to web site of report&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

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<file></file>	(§)	System generated description of the digital_object	
@lang	Ţ.	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	

<oa_link></oa_link>	i ®	URL to the electronic Open Access version of the document	
@type	(§)	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, if applied	36)
@embargo_start		Embargo start date, if applied - using ISO8601 (yyyy-mm-dd)	
@embargo_end		Embargo end date, if applied - using ISO8601 (yyyy-mm-dd)	
@url	(§)	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

- § Mandatory in all cases.
  - 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: S 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 8 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) S 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) S ddf doc/@doc vear 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) 8 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. 5) ddf doc/@rec source 8 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. 8 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 8 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

S		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>ddf_doc/title/original The title in the original language – use sub-elements below</pre>	
?		<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> <pre>Main title</pre>	
?	®	<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/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)
?	®	<pre>ddf_doc/description/note Any descriptive note</pre>	
?		<pre>ddf_doc/description/note/@xml:lang Language of note</pre>	2)
!		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	
!		<pre>ddf_doc/description/subject Subject description – use sub-elements below.</pre>	
!	®	<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"	8)
?		<pre>ddf_doc/description/subject/keyword/@xml:lang Language of keyword</pre>	2)
!	®	<pre>ddf_doc/description/subject/class</pre> 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>	9)
?		<pre>ddf_doc/description/subject/class/@xml:lang Language of classification</pre>	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

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:

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)

31)

#### (§) 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)

#### 

Identification number or code

# (§) ddf\_doc/person/@id\_type

Type of ID, registered with DDF - like ORCID

12)

6)

#### ! 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

?	ddf_doc/person/country Country of citizenship using ISO country codes	13)
?	ddf_doc/person/address Postal address	
?	<pre>ddf_doc/person/email Email address</pre>	
?	ddf_doc/person/uri URI (URL) link to web page	

# **Organisation element**

#### 

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:

 $\label{lem:condition} {\tt organisation/name} \ \mbox{(split in up to 4 hierarchical levels and acronym),} \\ {\tt organisation/id (optional),}$ 

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.

2)

# § @ 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)

\$ 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

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)

#### ? 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)

15)

#### (§) ® 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

! 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

12)

#### ? 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/@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)
ı		ddf_doc/event/place	
•		Place (city, country) of the event/conference	
			_
(§)		ddf_doc/event/sub_event/ Sub event (like track or lecture) related to the main event and the document	
		,	
(§)		ddf_doc/event/sub_event/@event_role	
		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"	

? ddf_doc/local_field/@xml:lang	!	®	ddf_doc/event/sub_event/id Identification number or code	12)
URI (URL) link to web page  Local field element  Respectively  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)  (S)  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	?			
?	(§)		<del>-</del> · · · · · · · · · · · · · · · · · · ·	
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  ?  ddf_doc/local_field/@xml:lang	Local	l field elei	ment	
Defining if/how field and should be indexed and displayed, see note  17  ddf_doc/local_field/@xml:lang	?	®	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),	
	(§)			17)
	?			2)

#### 

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/code

ddf\_doc/local\_field/data

Field code (tag) using a-z and 0-9 only

(§) ddf\_doc/local\_field/subfield/data

Subfield data

Field 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.

#### (§) 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.

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

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)

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		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	27)
		Use to state the accessibility of the linked article, i.e. "Open Access"	
Publica	ation cas	se - 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	
!		<pre>ddf_doc/publication/in_book/part Part designation of a multipart work ("Vol. 1", "Bind 4: Middelalderen" etc.)</pre>	
1		<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>	
1	R	<pre>ddf_doc/publication/in_book/isbn ISBN no. without dashes</pre>	24)
!	®	<pre>ddf_doc/publication/in_book/isbn/@type Defining type of ISBN, i.e. electronic or primary etc.</pre>	29)
!	®	<pre>ddf_doc/publication/in_book/issn Journal ISSN no. without dashes</pre>	23)
1	R	<pre>ddf_doc/publication/in_book/issn/@type Defining type of ISSN, i.e. electronic or primary etc.</pre>	29)
!		<pre>ddf_doc/publication/in_book/place Place of publication</pre>	
!		<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/vol Volume number</pre>	
!		ddf_doc/publication/in_book/issue	

		Issue number	
!		<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>	
!		<pre>ddf_doc/publication/in_book/doi Digital Object Identifier</pre>	
+		<pre>ddf_doc/publication/in_book/uri URI (URL) link to web site of book</pre>	
+		<pre>ddf_doc/publication/in_book/uri/@access</pre> Use to state the accessibility of the linked web site of the book, i.e. "Open Access"	27)
Publica	ntion cas	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.	
+		ddf_doc/publication/in_report/@pub_status	
		Status of publication, like "submitted", "accepted", "published"	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.)	
!		<pre>ddf_doc/publication/in_report/editor</pre> Name of the (first) editor of the report as a whole	
!	R	<pre>ddf_doc/publication/in_report/isbn ISBN no. without dashes</pre>	24)
!	®	<pre>ddf_doc/publication/in_report/isbn/@type Defining type of ISBN, i.e. electronic or primary etc.</pre>	29)
!	R	<pre>ddf_doc/publication/in_report/issn Journal ISSN no. without dashes</pre>	23)
!	R	<pre>ddf_doc/publication/in_report/issn/@type Defining type of ISSN, i.e. electronic or primary etc.</pre>	29)
!	R	<pre>ddf_doc/publication/in_report/series Report series title</pre>	
!		<pre>ddf_doc/publication/in_report/rep_no Report number</pre>	
!		<pre>ddf_doc/publication/in_report/place Place of publication</pre>	
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# 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.

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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	dp	Patent	Patent	
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	dtd	Afhandling-Doktor	Thesis Doctoral	
dtbAfhandling-BachelorThesis BachelordtdbAfhandling-Diploma BachelorThesis Diploma BachelordtsStudenterrapportStudent reportdsoSoftwareSoftwareddDatasætData setdrtRadio/TV-udsendelseRadio/TV broadcastPublic broadcast	dtp	Afhandling-Ph.D.	Thesis PhD	
dtdbAfhandling-Diploma BachelorThesis Diploma BachelordtsStudenterrapportStudent reportdsoSoftwareSoftwareddDatasætData setdrtRadio/TV-udsendelseRadio/TV broadcastPublic broadcast	dtm	Afhandling-Kandidat	Thesis Master	
dts Studenterrapport Student report dso Software Software dd Datasæt Data set drt Radio/TV-udsendelse Radio/TV broadcast Public broadcast	dtb	Afhandling-Bachelor	Thesis Bachelor	
dso Software Software dd Datasæt Data set drt Radio/TV-udsendelse Radio/TV broadcast Public broadcast	dtdb	Afhandling-Diploma Bachelor	Thesis Diploma Bachelor	
dd Datasæt Data set drt Radio/TV-udsendelse Radio/TV broadcast Public broadcast	dts	Studenterrapport	Student report	
drt Radio/TV-udsendelse Radio/TV broadcast Public broadcast	dso	Software	Software	
	dd	Datasæt	Data set	
dy Udstillingskatalog Evhibition catalogue	drt	Radio/TV-udsendelse	Radio/TV broadcast	Public broadcast
un Gustimigskatatog Exhibition Catalogue	dx	Udstillingskatalog	Exhibition catalogue	
do Andet Other	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 (---

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

diis DIIS - Dansk Institut for Internationale Studier

dlh Danmarks Lærerhøjskole
dmf Dansk Matematisk Forening
dmu 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 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

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	
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)

fre Fri/ukontrolleret Free/uncontrolled ini INIS INIS	
ini INIC INIC	
eud EUDISED EUDISED	
ins INSPEC INSPEC	
loc Lokal Local	

Comment

#### Further codes may be registered with DDF

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

Code	Danish text	English text
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	
	Franthan and an mary ha ma	aistanad with DDE	

# Further codes may be registered 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
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
_0 _ 1	2	Č	and EC Grant Agreement numbers

# ► 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	
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	
	•		

<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.

Comment

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	
oau	Korporativ forfatter	Corporate author	
oaf	Institutionstilknytning	Affiliation	

opu Udgiver Publisher

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

Further codes may be registered with DDF

Code Danish text English text Comment

pd Leverance fra Deliverable of pr Relateret til Related to

► Further codes may be registered with DDF

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

Code	Danish text	English text	Comment
ep	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
- 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		
u	Upubliceret	Unpublished	e.g. grey literature	

### 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>

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

@doc_type			@doc_	review			@	doc_le	vel	
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
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	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.
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.

# 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)

<b>Code</b> pri	Danish text ISSN/ISBN	English text ISSN/ISBN	Comment For use with
pm	ISSIVISDIV	ISSIVISDIV	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
und	ISSN/ISBN	ISSN/ISBN	ISSN/ISBN For use with undefined
una	1991/1901/	13311/13D11	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	Comment
cla	Undervisningstime	Class	
ses	Session	Session	
tra	Konferencespor	Conference track	
wor	Workshop	Work shop	
WOI	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
		1 3	repository
rem	Ekstern database	Remote repository	For use with URL pointing to a remote
		1 ,	repository
doi	doi	doi	For use with URL pointing to a DOI
			resolver. The DOI name of the entity is
			represented in the URL
			•
34)	Version of entity in relation to OA link (for @version)		
Code	Danish text	English text	Comment
pre	Pre-print	Preprint	Commone
afv	Forfatters endelige version	Authors final version	
pub	Udgivet version	Published version	
oth	Anden version	Other version	
our	7 mach version	Other version	
35)	Access to the entity in relation to OA link (for @public_access)		
Code	Danish text	English text	Comment
oa	Open Access	Open Access	- Comment
ea	Embargo periode	Embargoed Access	
ra	Begrænset tilgang	Restricted Access	
ca	Utilgængelig	Closed Access	
und	Ikke angivet	Not Set	
unu	ikke aligivet	1101 901	
36)	License codes in relation to OA link (for @license)		

Not yet decided

# 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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      <publisher no>102</publisher no>
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      <pages>248</pages>
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</ddf_doc>
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# Example 2: Conference paper published in proceedings in book form

#### **Full XML document**

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

#### **Full XML document**

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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