# **DEff** Denmark's Electronic Research Library

## DDF-MXD

## **Danish Research Database**

## **Metadata Exchange Format for Documents**

31 January 2022

Version 1.4.2

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## 0.1 Preface to version 1.0.0

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

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

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

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

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

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

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

Version 1.0.0, 8 November, 2005

Mogens Sandfær, editor

## 0.2 Preface to version 1.1.0

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

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

Version 1.1.0 18 May, 2006

Liv Fugl, editor

Version 1.4.2

## 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 data provider READ - Arkitekt- og designskolerne has been added in the documentation of exporting institutions @rec\_source.

Version 1.2.1 22 December 2009

Mikael K. Elbæk, editor

## 0.5 Preface to version 1.2.2

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

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

Version 1.2.2 9 May 2011

Mikael K. Elbæk, editor

## 0.6 Preface to version 1.3.0

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

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

Version 1.3.0 12 March 2012

Mikael K. Elbæk, editor

Version 1.4.2

## 0.7 Preface to version 1.3.1

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

Version 1.3.1 8 June 2015

Birthe Krog, editor

## 0.8 Preface to version 1.3.1.1

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

Version 1.3.1.1 3 August, 2015

Birthe Krog, editor

## 0.9 Preface to version 1.3.2

Version 1.3.2 of the MXD-documentation has been released to add a new data provider code ucv = Professionshøjskolerne to @rec\_source. Additionally an extra document type (Case Report) has been added to the format.

Version 1.3.2 23 February, 2016

Birthe Krog, editor

## 1.0 Preface to version 1.4.0

Version 1.4.0 of the MXD-format includes four changes to the format.

A new code "oth" has been added to the attribute @pers\_role to contain person roles created locally. New elements - <text> and <year> have been added to the <other>-element to minimise the number of BFI-screening errors. The <editor>-element has been deleted in the <in\_book> and <in\_report> document types and a new code for @pers\_role "pedh" in the <person>-element has been added to replace the previous <editor>-elements.

Lately external identifiers have been added to metadata in the CRIS-systems, so to accommodate the wish for exchanging external identifiers, a new <identifier>-element has been added.

Version 1.4.0 1 August, 2016

Birthe Krog, editor

## 1.1 Preface to version 1.4.1

Version 1.4.1 of the MXD-format includes two changes to the format.

A new element <related\_object> with the attributes @managed ; @rel\_type and @obj\_type. The element describes the relation between two objects.

A new attribute @total\_authors is added to the root-element <ddf\_doc>. The attribute contains the total number of authors in the document. The number can differ from the number of registered authors.

Version 1.4.1 15 July, 2018

Birthe Krog, editor

## 1.2 Preface to version 1.4.2

Version 1.4.2 of the MXD-format includes one changes to the format. The <u>person/@aff\_no</u> which used to be an interger is now a space separated list of integers (e.g. aff\_no="1 6") to allow linking of one person to multiple organisations.

Version 1.4.2 31 January, 2022

Franck Falcoz, editor

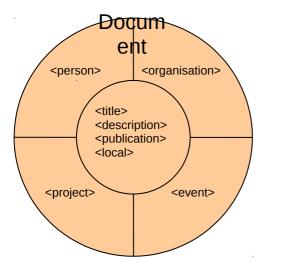
## **1. Introduction**

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.

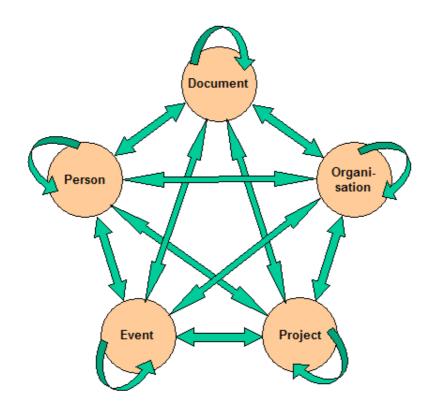
#### Project

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 at: <u>http://mx.forskningsdatabasen.dk/mxd/current/</u> or in the sub directories of <u>http://mx.forskningsdatabasen.dk/mxd/</u>

## **General specifications**

- UTF-8 is mandatory character encoding for all data
- Whenever an element contains sub-elements, all data must be placed in these sub-elements, 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.
(§)	<b>Mandatory</b> - when its parent element is used. In such cases, records without this element or attribute will be rejected
[§]	<b>Mandatory</b> - when its parent element is used and another specified condition is met. In such cases, records without this element or attribute will be rejected
!	<b>Required</b> - whenever it applies and data is available. These elements or attributes are required to establish a fully functional DDF record, which may be successfully searched, displayed and used for statistics. They cannot, however, be made mandatory, as they do not apply in all cases (e.g. not all publications have a personal author, but if such exists it must be recorded).
+	<b>Recommended</b> - whenever it applies and data is available. These elements or attributes are recommended, as they substantially enhance the functionality and usability of the record.
?	<b>Optional</b> - these elements or attributes are entirely optional. They primarily serve the needs of data suppliers that want to preserve the finer details of their local data – for example to use the DDF data as a backup copy or similar.
®	Repeatable - the element may be repeated

## Table of elements and attributes

Root element:			
<ddf doc=""></ddf>	§		
@format version	§	Exchange format version used - "1.3.1" for current version	
@total_authors	<u> </u>	Total number of authors if different from no. of persons in the person-element	
@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	<u> </u>	Indicating purpose/audience like "scientific", "educational", "popular"	5
@rec_source	<u> </u>	Code of exporting database/institution	6
@rec_id	<u> </u>	Data supplier's local record ID - must be unique for supplier	- 0
-	-		
@rec_created	§	Date when the record was first created in the local database, in yyyy-mm-dd	_
@rec_upd	§	Last update date in format yyyy-mm-dd	
@rec_status	§	Whether the record is to be considered as "new", "updated" or "deleted"	7
Sub-elements:			
<title>&lt;/td&gt;&lt;td&gt;§&lt;/td&gt;&lt;td&gt;Title of the work in focus&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;/pre&gt;&lt;/pre&gt;&lt;pre&gt;&lt;/td&gt;&lt;td&gt;§&lt;/td&gt;&lt;td&gt;The title in the original language&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of title&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;main&gt;&lt;/td&gt;&lt;td&gt;§&lt;/td&gt;&lt;td&gt;Main title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;sub&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;Sub title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;part&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 1" etc)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;other&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Any other title information&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;translated&gt;&lt;/td&gt;&lt;td&gt;? ®&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;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;0 0&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Language of title&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;main&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Main title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;sub&gt;&lt;/td&gt;&lt;td&gt;? ®&lt;/td&gt;&lt;td&gt;&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;/pre&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Part designation of a multipart work ("Vol. 1", "Bind 1" etc)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;other&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Any other title information&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;_&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;description&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;abstract&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of abstract&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;note&gt;&lt;/td&gt;&lt;td&gt;?®&lt;/td&gt;&lt;td&gt;· · · · · · · · · · · · · · · · · · ·&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of note&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;thesis&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Special thesis note&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;institution&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Name of the academic institution awarding the degree&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;advisor&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Name of the academic advisor/supervisor&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;aw_date&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Date of awarded degree in format yyyy-mm-dd&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;other&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Any other information&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;subject&gt;&lt;/td&gt;&lt;td&gt;i&lt;/td&gt;&lt;td&gt;Subject description&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;keyword&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@key_type&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Vocabulary/theasurus used, like "EUDISED", "INSPEC" or "free"&lt;/td&gt;&lt;td&gt;8&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Language of keyword&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;class&gt;&lt;/td&gt;&lt;td&gt;! ®&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&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;@class type&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;@class_type&lt;br&gt;@xml:lang&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Language of classification&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;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;br&gt;&lt;research_area&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Special national research area, used by DASTI&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;br&gt;&lt;research_area&gt;&lt;br&gt;@area_code&lt;/td&gt;&lt;td&gt;?&lt;br&gt;!&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;Special national research area, used by DASTI&lt;br&gt;One of four national research areas.&lt;/td&gt;&lt;td&gt;31&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@xml:lang&lt;br&gt;&lt;research_area&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Special national research area, used by DASTI&lt;br&gt;One of four national research areas.&lt;br&gt;Language of research area&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

<person></person>	! ®	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)	10)
@aff_no	1	Reference no. of the affilition within the record (links person to organisation)	11)
<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 the international ORCID	12)
@id_source	+	Source of the person-ID, i.e. aau, cbs etc. only for use with the Danish DNFD	6)
<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;pre&gt;&lt;birthdate&gt; &lt;country&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;In format yyyy-mm-dd&lt;br&gt;Country of citizenship using ISO country codes&lt;/td&gt;&lt;td&gt;13)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;address&gt;&lt;/td&gt;&lt;td&gt;?&lt;/td&gt;&lt;td&gt;Postal address&lt;/td&gt;&lt;td&gt;113&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;ur&gt;&lt;li&gt;&lt;uri&gt;&lt;/ul&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;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;corganisation&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;8 @&lt;/td&gt;&lt;td&gt;Organisation related to the document, information formatted as below&lt;/td&gt;&lt;td&gt;&lt;b&gt;-&lt;/b&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;organisation&gt;&lt;br&gt;@org_role&lt;/td&gt;&lt;td&gt;§®&lt;br&gt;§&lt;/td&gt;&lt;td&gt;Role of the organisation 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;@aff no&lt;/td&gt;&lt;td&gt;s&lt;br&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;-&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;Name - 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 organisation name (mandatory if name is repeated)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;level1&gt;&lt;/td&gt;&lt;td&gt;§&lt;/td&gt;&lt;td&gt;Name of highest organisational level (example: university)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;level2&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Name of second organisational level (example: faculty)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;level3&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;Name of third organisational level (example: institute, department)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;level4&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Name of fourth organisational level (example: section, center, division)&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;/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 Danish CVR no.&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 legal residence using ISO country codes&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;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;project&gt;&lt;br&gt;@proj_role&lt;/td&gt;&lt;td&gt;!®&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;Project related to the document, information formatted as below&lt;br&gt;Role of the project 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;&lt;pre&gt;&lt;/td&gt;&lt;td&gt;(S) ®&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;&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;1.00&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;/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;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;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;br&gt;@bfi conference no&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Role of the event in relation to the document (see note)&lt;br&gt;BFI conference number from the BFI conference database&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&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 the event title (mandatory if title is repeated)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;full&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Full title, like "European Conference on Digital Libraries"&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;acronym&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Acronym title, like "ECDL"&lt;/td&gt;&lt;td&gt;&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;td&gt;&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;td&gt;&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;First day of the sumet in former transmission and the&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;start&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;First day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy&lt;br&gt;Last day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Conds&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Last day of the event in format gygy-min-du, of gygy-min, of gygy&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;end&gt;&lt;/pre&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;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;(3)&lt;br&gt;!&lt;br&gt;! ®&lt;/td&gt;&lt;td&gt;Place (city, country) of the event/conference&lt;br&gt;Sub event (like track or lecture) related to the main event and the document&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;place&gt;&lt;/td&gt;&lt;td&gt;1&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;pre&gt;&lt;place&gt; &lt;sub_event&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;!&lt;br&gt;! ®&lt;br&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;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;place&gt; &lt;sub_event&gt; @event_type &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;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;/td&gt;&lt;td&gt;!&lt;br&gt;! ®&lt;br&gt;(§)&lt;br&gt;(§)&lt;br&gt;[§]&lt;/td&gt;&lt;td&gt;Sub event (like track or lecture) related to the main event and the 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&lt;id&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;Sub event (like track or lecture) related to the main event and the document&lt;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;br&gt;Language of the sub event title (mandatory if title is repeated)&lt;br&gt;Acronym title, or call name like "Fedora"&lt;br&gt;Identification number or code&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;sub_event&gt; &lt;/pre&gt; &lt;/pre&gt; &lt;pre&gt;@event_type &lt;/pre&gt; &lt;pre&gt;&lt;/pre&gt; &lt;pr&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;Sub event (like track or lecture) related to the main event and the document&lt;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub 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code&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;sub_event&gt; @event_type &lt;/pre&gt; &lt;pre&gt; &lt;pre&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;br&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;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;br&gt;Language of the sub event title (mandatory if title is repeated)&lt;br&gt;Acronym title, or call name like "Fedora"&lt;br&gt;Identification number or code&lt;br&gt;Type of ID, registered with DDF - like local course id&lt;br&gt;URI (URL) link to web page&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;place&gt; &lt;sub_event&gt; @event_type &lt;cititle&gt; @xml:lang &lt;acronym&gt; &lt;id&gt; @id_type &lt;uri&gt; &lt;local_field&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;br&gt;?&lt;br&gt;?&lt;br&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;Sub event (like track or lecture) related to the main event and the document&lt;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;br&gt;Language of the sub event title (mandatory if title is repeated)&lt;br&gt;Acronym title, or call name like "Fedora"&lt;br&gt;Identification number or code&lt;br&gt;Type of ID, registered with DDF - like local course id&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;sub_event&gt; @event_type &lt;title&gt; @xml:lang &lt;acronym&gt; &lt;id&gt;&lt;/pre&gt; &lt;/pre&gt; &lt;pre&gt;&lt;/pre&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;br&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;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;br&gt;Language of the sub event title (mandatory if title is repeated)&lt;br&gt;Acronym title, or call name like "Fedora"&lt;br&gt;Identification number or code&lt;br&gt;Type of ID, registered with DDF - like local course id&lt;br&gt;URI (URL) link to web page&lt;br&gt;Locally defined field with optional subfield&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;place&gt; &lt;pre&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;br&gt;?&lt;br&gt;?&lt;br&gt;(§)&lt;br&gt;?&lt;br&gt;?&lt;br&gt;(§)&lt;/td&gt;&lt;td&gt;Sub 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document&lt;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;br&gt;Language of the sub event title (mandatory if title is repeated)&lt;br&gt;Acronym title, or call name like "Fedora"&lt;br&gt;Identification number or code&lt;br&gt;Type of ID, registered with DDF - like local course id&lt;br&gt;URI (URL) link to web page&lt;br&gt;Locally defined field with optional subfield&lt;br&gt;Defining if/how field should be indexed and displayed&lt;br&gt;Language of field&lt;br&gt;Field code (tag) using a-z (upper or lower case) and 0-9 only&lt;br&gt;Field data&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;place&gt; &lt;sub_event&gt; @event_type &lt;title&gt; @xml:lang &lt;acronym&gt; &lt;id&gt; @id_type &lt;uri&gt; &lt;local_field&gt; @tag_type @xml:lang &lt;code&gt; &lt;data&gt; &lt;subfield&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;br&gt;(§)&lt;br&gt;?&lt;br&gt;(§)&lt;br&gt;?&lt;br&gt;(§)&lt;br&gt;?&lt;br&gt;(§)&lt;br&gt;?&lt;br&gt;(§)&lt;br&gt;?&lt;br&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;Sub event (like track or lecture) related to the main event and the document&lt;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;br&gt;Language of the sub event title (mandatory if title is repeated)&lt;br&gt;Acronym title, or call name like "Fedora"&lt;br&gt;Identification number or code&lt;br&gt;Type of ID, registered with DDF - like local course id&lt;br&gt;URI (URL) link to web page&lt;br&gt;Locally defined field with optional subfield&lt;br&gt;Defining if/how field should be indexed and displayed&lt;br&gt;Language of field&lt;br&gt;Field code (tag) using a-z (upper or lower case) and 0-9 only&lt;br&gt;Field data&lt;br&gt;Sub tag&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;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;br&gt;(§)&lt;br&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;Sub event (like track or lecture) related to the main event and the document&lt;br&gt;Sub event type in relation to the main event (see note)&lt;br&gt;Title of sub event like "User Group Session 2C (Fedora): Search and Metadata"&lt;br&gt;Language of the sub event title (mandatory if title is repeated)&lt;br&gt;Acronym title, or call name like "Fedora"&lt;br&gt;Identification number or code&lt;br&gt;Type of ID, registered with DDF - like local course id&lt;br&gt;URI (URL) link to web page&lt;br&gt;Locally defined field with optional subfield&lt;br&gt;Defining if/how field should be indexed and displayed&lt;br&gt;Language of field&lt;br&gt;Field code (tag) using a-z (upper or lower case) and 0-9 only&lt;br&gt;Field data&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

blication>	§	Use one (minimum) or more of the cases below	
@bfi_publisher_no	3	BFI publisher number from the authoritative BFI publisher database	ľ
@bfi_publisher_no @bfi_serial_no		BFI serial number from the authoritative BFI serials database	h
<in_journal></in_journal>		Use for articles, papers published in a journal (incl. proceedings issues)	
			ŀ
@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;4&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;1&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;1&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;1&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;&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;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;in_book&gt;&lt;/td&gt;&lt;td&gt;1&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;&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;@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;part&gt;&lt;/td&gt;&lt;td&gt;1&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;/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;isbn&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;@type&lt;/td&gt;&lt;td&gt;1&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;1&lt;/td&gt;&lt;td&gt;Defining electronic or print ISSN&lt;/td&gt;&lt;td&gt;- i&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;place&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;Place of publication&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&gt;publisher&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Name of publisher&lt;/td&gt;&lt;td&gt;-1&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;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;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;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;doi&gt;&lt;/td&gt;&lt;td&gt;1&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;pages&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;In the format Firstpage-Lastpage&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;uri&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;URI (URL) link to web site of book&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@access&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Use to state the accessibility of the linked article, i.e. "Open Access"&lt;/td&gt;&lt;td&gt;٦&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;in_report&gt;&lt;/td&gt;&lt;td&gt;!&lt;/td&gt;&lt;td&gt;Use for chapters, papers etc published as a part of a report&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;@pub_status&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Status of publication, like "submitted", "accepted", "published"&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;title&gt;&lt;/td&gt;&lt;td&gt;(§)&lt;/td&gt;&lt;td&gt;Report title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;sub_title&gt;&lt;/td&gt;&lt;td&gt;+&lt;/td&gt;&lt;td&gt;Report sub title&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;part&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;1&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;isbn&gt;&lt;/td&gt;&lt;td&gt;:&lt;br&gt;! 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<book> @pub_status</book>	! (§)	Use when the document is an entire book Status of publication, like "submitted", "accepted", "published"	
<pre>edition&gt;</pre>	(8)	Book edition, like "2. rev. udg."	
<isbn></isbn>	!	ISBN no. without dashes	
			-
@type	!	Defining electronic or print ISBN	
<place></place>	!	Place of publication	
<publisher></publisher>		Name of publisher	
<year></year>	!	Year of publication in format yyyy	
<vol></vol>		Volume no.	
⊲issue>	!	Issue no.	
<pages></pages>	!	Total no. of pages	
<doi></doi>	!	DOI no.	
<series></series>	! ®	Name of publisher	
<issn></issn>	! ®	ISSN no. without dashes	
@type	1	Defining electronic or print ISSN	
<uri></uri>	+	URI (URL) link to web site of book	
@access	+	Use to state the accessibility of the linked article, i.e. "Open Access"	
<report></report>		Use when the document is an entire report	
	+	Status of publication, like "submitted", "accepted", "published"	
@pub_status <isbn></isbn>	+ ! ®		
@type	!	Defining electronic or print ISBN	
<series></series>	! ®		
<issn></issn>		ISSN no. without dashes	
@type	!	Defining electronic or print ISSN	
<rep_no></rep_no>	! ®		
<place></place>	!	Place of publication	
<publisher></publisher>	!	Name of publisher	
<year></year>	1	Year of publication in format yyyy	
<vol></vol>		Volume no.	
⊲issue>	1	Issue no.	
<pages></pages>	1	Total no. of pages	
<doi></doi>	1	DOI no.	
<ur><li><uri></uri></li></ur>	+	URI (URL) link to web site of book	
@access	+	Use to state the accessibility of the linked article, i.e. "Open Access"	
<pre><patent></patent></pre>		Use when the document is a patent (application)	
@pub_status	(§)	Status of publication, like "submitted", "accepted", "published"	
<country></country>	!	Country of patent issue using ISO country codes	
<ipc></ipc>	!	International Patent Classification	
<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>	! ®		
<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 t+F119he access rights for the object ie. "Open Access"	
<description></description>		Description of the specific digital object	
<embargo_end></embargo_end>	[§]	Embargo end date in the format yyyy-mm-dd	
<file></file>	(§)	System generated description of the digital_object	
@lang	(3)	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	

<other></other>	+	Use for any other form of publication if none of the above apply	
<text></text>	(§)	Any text	
<year></year>	!	Year of publication in format yyyy	
⊲oalink⊳	! ®	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	1	License attached to the file	
@embargo start	1	Embargo start date, if applied - using ISO8601 (yyyy-mm-dd)	
@embargo end	1	Embargo end date, if applied - using ISO8601 (yyyy-mm-dd)	
@url	1	The URL pointing directly to the electronic file	
⊲related object>	! ®	An identifier, identifying an object related to the document	
@managed	(§)	Indicate if the related object is managed (true) in the same information	37
@rel type	(§)	system as the document or elsewhere in a different system (false) The type of the relation identifier (id, uri)	38
@obj type	(§)	The type of the related object eq. Dataset, activity, project etc.	39

## 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 at: <u>http://mx.forskningsdatabasen.dk/mxd/current/</u> or in the sub directories of <u>http://mx.forskningsdatabasen.dk/mxd/</u>
- 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 sub-elements, 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 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.
(§)	<b>Mandatory</b> - when its parent element is used. In such cases, records without this element or attribute will be rejected
[§]	<b>Mandatory</b> - when its parent element is used and another specified condition is met In such cases, records without this element or attribute will be rejected
ļ	<b>Required</b> - whenever it applies and data is available. These elements or attributes are required to establish a fully functional DDF record, which may be successfully searched, displayed and used for statistics. They cannot, however, be made mandatory, as they do not apply in all cases (e.g. not all publications have a personal

author, but if such exists it must be recorded).

+	<b>Recommended</b> - whenever it applies and data is available. These elements or attributes are recommended, as they substantially enhance the functionality and usability of the record.
?	<b>Optional</b> - these elements or attributes are entirely optional. They primarily serve the needs of data suppliers that want to preserve the finer details of their local data – for example to use the DDF data as a backup copy or similar.
®	Repeatable - the element may be repeated

#### **Root element**

Notes

§	ddf_doc
3	<pre>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:</pre>
	ddf_doc/oa_link
	ddf_doc/related_object
	and the mandatory attributes described below:

§ 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/@total\_authors

Number of total authors (integer) if different from the number of authors registered in the document.

#### § 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.

#### § ddf\_doc/@rec\_created

Date when the record was first created in the local database in the format yyyy-mm-dd

#### § ddf\_doc/@rec\_upd

Last update date of the exporting database in the format yyyy-mm-dd

#### § ddf\_doc/@rec\_status

Code indicating whether the record is to be considered as "new", "updated" or "deleted". Since data is gathered via OAI harvesting "new" records must be set as "updated". See note for DDF list of record status codes.

### **Title element**

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

## **Description element**

!		ddf_doc/description	
		The description element is the common container for a variety of descriptive data types that deal with the content of the document, such as notes, abstracts, subject classifications and keywords etc. The description element is not mandatory but should be used whenever such data is available. The element is organised in the following sub-elements: description/abstract (summary of the content), description/note (other descriptive notes), description/thesis (special structured note for academic thesis), description/subject/keyword (free or controlled keywords), description/subject/class (classification system codes). description/research_area (special national Danish research areas). Description/identifier (external identifiers)	
	0		
!	®	ddf_doc/description/abstract	
		Summary of content	
?		ddf_doc/description/abstract/@xml:lang	
		Language of abstract	2)
?	®	ddf_doc/description/note Any descriptive note	
?		ddf_doc/description/note/@xml:lang	
		Language of note	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 the academic institution awarding the degree	
+		ddf_doc/description/thesis/advisor Name of the academic advisor/supervisor	
+		ddf_doc/description/thesis/aw_date	
		Date of awarded degree in format yyyy-mm-dd	
?		ddf_doc/description/thesis/other Any other information	
!		ddf_doc/description/subject Subject description – use sub-elements below.	
!	®	ddf_doc/description/subject/keyword Keywords – whether free or controlled.	
(§)		ddf_doc/description/subject/keyword/@key_type	
		Vocabulary/thesaurus used, like "EUDISED", "INSPEC" or "free"	8)
?		<pre>ddf_doc/description/subject/keyword/@xml:lang Language of keyword</pre>	2)
!	®	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>	9)
?		ddf_doc/description/subject/class/@xml:lang	

Language of classification

!		<b>ddf_doc/description/research_a</b> Special national research area used by the Danish Agency for Science, Technology and Innovation.	area
(§)		ddf_doc/description/research_area/@area_code Code for one of the four national research areas, i.e.: Science/technology, Social science, Humanities and Medical science.	31)
ļ		ddf_doc/description/research_area/@xml:lang Language of the research area	
ļ	®	<b>ddf_doc/description/identifier</b> External identifier according to the type declared in the attribute below	
(§)		<pre>ddf_doc/description/identifier/@type Code for type of identifier</pre>	36)

#### **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:	
(§)		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(s) (ddf_doc/organisation/@aff_no) to which the person was affiliated while creating/contributing to this document If a person is affiliated to more than one organisation, the @aff_no should be a space separated list of organisation numbers. e.g. one affiliation aff_no="23", mutiple affiliations aff_no="23 6".	11)
(§)		ddf_doc/person/name	
		Personal 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)	
?	®	ddf_doc/person/id	
		Identification number or code	
(§)		ddf_doc/person/@id_type	

2)

	Type of ID, registered with DDF - like ORCID	12)
I	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.	6)
?	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	
?	ddf_doc/person/email Email address	
?	ddf_doc/person/uri URI (URL) link to web page	

## **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.	11)
§	®	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)	
!		<b>ddf_doc/organisation/name/acronym</b> 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)
?		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)
(§)	®	<b>ddf_doc/project/title</b> 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)
(§)		<b>ddf_doc/project/title/main</b> Main title	
!		ddf_doc/project/title/sub Sub title	
ļ		ddf_doc/project/title/acronym Acronym	
?	®	ddf_doc/project/id Identification number or code	
(§)		<b>ddf_doc/project/id/@id_type</b> 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/sub_event (Sub event like track or lecture related to the main event and the document event/id (Identification number or code) 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)
(§)	®	<b>ddf_doc/event/title</b> 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)
(§)		<b>ddf_doc/event/title/full</b> 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:	
(§)		<b>ddf_doc/event/dates/start</b> 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)
ŀ		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)

! ddf\_doc/event/sub\_event/title/acronym

Acronym title or call name, like "Fedora"

2)

!	®	ddf_doc/event/sub_event/id Identification number or code	12)
?		<b>ddf_doc/event/sub_event/@id_type</b> Type of ID, registered with DDF – like local course ID	
(§)		ddf_doc/event/uri URI (URL) link to web page	
Local	field ele	ment	
?	®	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	
(§)		<b>ddf_doc/local_field/data</b> Field data	
?	R	ddf_doc/local_field/subfield Repeatable subfield likewise split in code and data	
(§)		ddf_doc/local_field/subfield/code Subfield code (tag) using a-z and 0-9 only	
(§)		ddf_doc/local_field/subfield/data	

(\$) ddf\_doc/local\_field/subfield/data
Subfield data

#### **Publication element**

§

#### ddf\_doc/publication

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

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

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

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

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

#### (§) ddf\_doc/publication/@bfi\_publisher\_no

BFI publisher number from the authoritative BFI publisher database

28)

28)

#### ! ddf\_doc/publication/@bfi\_serial\_no

BFI serial number from the authoritative BFI serials database

#### Publication case - In a journal

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

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/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"	

#### Publication case - In a book

of a book (incl. proceedings in book form) b_title, part, edition, isbn, vol, issue, doi, pages, uri.
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b_title
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4: Middelalderen" etc.)
ition
<b>bn</b> 24)
bn/@type 29)
ries nnology, vol. 14")
sn 23)
sn/@type 29)
ace
blisher
ar

!	<pre>ddf_doc/publication/in_book/vol Volume number</pre>	
!	ddf_doc/publication/in_book/issue	
!	ddf_doc/publication/in_book/pages In the format Firstpage-Lastpage	22)
!	ddf_doc/publication/in_book/doi Digital Object Identifier	
+	ddf_doc/publication/in_book/uri URI (URL) link to web site of book	
+	ddf_doc/publication/in_book/uri/@access Use to state the accessibility of the linked web site of the book, i.e. "Open Access"	27)
Publication	case - In a report	

#### ļ 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, isbn, series, issn, rep\_no, place, publisher, year, vol, issue, pages, papered, doi,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\_report/part + Par designation of a multipart work ("Vol. 1", "Bind 4: Middelalderen" etc.) ļ R ddf\_doc/publication/in\_report/isbn 24) ISBN no. without dashes ļ R ddf\_doc/publication/in\_report/isbn/@type 29) Defining type of ISBN, i.e. electronic or primary etc. R ddf\_doc/publication/in\_report/series I Report series title ddf\_doc/publication/in\_report/issn ļ R 23) Journal ISSN no. without dashes I R ddf\_doc/publication/in\_report/issn/@type 29) Defining type of ISSN, i.e. electronic or primary etc. ļ ddf\_doc/publication/in\_report/rep\_no Report number ddf\_doc/publication/in\_report/place 1 Place of publication l ddf\_doc/publication/in\_report/publisher Name of publisher ddf\_doc/publication/in\_report/year 1 Year of publication in format yyyy

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!	<pre>ddf_doc/publication/in_report/vol Volume number</pre>	
!	ddf_doc/publication/in_report/issue	
!	ddf_doc/publication/in_report/pages In the format Firstpage-Lastpage	22)
!	ddf_doc/publication/in_report/paperid Paper ID	
!	ddf_doc/publication/in_report/doi Digital Object Identifier	
+	ddf_doc/publication/in_report/uri URI (URL) link to web site of report	
+	<b>ddf_doc/publication/in_report/uri/@access</b> Use to state the accessibility of the linked web site of the report, i.e. "Open Access"	27)

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

!	®	ddf_doc/publication/book/issn Journal ISSN no. without dashes	23)
!	®	ddf_doc/publication/book/issn/@type Defining type of ISSN, i.e. electronic or primary etc.	29)
+		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)
Public	ation cas	se – As a report	
!		ddf_doc/publication/report	
		Use when the document is an entire report All data is placed in the sub-elements: isbn, series, issn, rep_no, place, publisher, year, vol, issue, pages, doi, 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)
!	®	ddf_doc/publication/report/isbn ISBN no. without dashes	24)
!		ddf_doc/publication/report/isbn/@type Defining type of ISBN, i.e. electronic or primary etc.	29)
!	®	ddf_doc/publication/report/series Report series title	
!	®	ddf_doc/publication/report/issn Journal ISSN no. without dashes	23)
!		ddf_doc/publication/report/issn/@type Defining type of ISSN, i.e. electronic or primary etc.	29)
!	®	ddf_doc/publication/report/rep_no Report series and number	
!		ddf_doc/publication/report/place	
!		ddf_doc/publication/report/publisher Name of publisher	
!		ddf_doc/publication/report/year Year of publication in format yyyy	
ļ		ddf_doc/publication/report/vol Volume number	
!		ddf_doc/publication/report/issue	
!		ddf_doc/publication/report/pages Total no. of pages	
!		ddf_doc/publication/report/doi Digital Object Identifier	
+		ddf_doc/publication/report/uri URI (URL) link to web site of report	

+	ddf_doc/publication/report/uri/@access	27)
	Use to state the accessibility of the linked web site of the record, i.e. "Open Access"	
Publication	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)
!	<b>ddf_doc/publication/patent/number</b>	
!	ddf_doc/publication/patent/date	
	Date of status above in format yyyy-mm-dd	
+	ddf_doc/publication/patent/uri	
	URI (URL) link to web site of patent	
+	ddf_doc/publication/patent/uri/@access	27)

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

#### Publication case – As an Internet publication

!	®	ddf_doc/publication/inetpub	
		Use when published electronically on the net (institutional repository, author's homepage, preprint server, etc.) If the document is also published in a journal, book or report, the 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)	
+		ddf_doc/publication/inetpub/uri/@access	27)
		Use to stat the accessibility of the service/file, i.e. "Open Access"	

#### Publication case - Digital object

!	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 post print to an institutional repository you must also link to the publisher version, i.e. inetpub.
	All data is placed in the sub-elements: description, embargo_end, file, uri

#### (§) ddf\_doc/publication/digital\_object/@id

Unique id for the parent record

!	<b>ddf_doc/publication/digital_object/@role</b> What is the role of the object in relation to the record, i.e. full text "preprint", "postprint", or "publisher version".	30)
(§)	ddf_doc/publication/digital_object/@access Use for stating the access rights for the object i.e. "Open Access", campus access etc.	27)
!	ddf_doc/publication/digital_object/description Description of the digital object	
[§]	<b>ddf_doc/publication/digital_object/embargo_end</b> Embargo end date in the format yyyy-mm-dd	
(§)	<b>ddf_doc/publication/digital_object/file</b> System generated description of the digital object	
!	<pre>ddf_doc/publication/digital_object/file/@lang Language of the file</pre>	2)
[§]	<pre>ddf_doc/publication/digital_object/file/@size The size of the file</pre>	
!	ddf_doc/publication/digital_object/file/@mime_type Mime type for the file must comply with the IANA specifications	25)
[§]	<b>ddf_doc/publication/digital_object/file/@timestamp</b> Timestamp given when the file was change or uploaded	26)
[§]	ddf_doc/publication/digital_object/file/@file Name of the file when it was uploaded	
!	ddf_doc/publication/digital_object/file/description	
!	<b>ddf_doc/publication/digital_object/uri</b> URI (URL) to the digital object, i.e. in the local repository	

#### Publication case - Other

+	ddf_doc/publication/other
	Use for any other form of publication - if none of the above apply
(§)	ddf_doc/publication/other/text Any text describing the publication
!	ddf_doc/publication/other/year
	Year of publication in format yyyy.

#### **OA Link element**

!	®	ddf_doc/oa_link			
		This repeatable element is used to define the direct URL to the electronic Open Access version of the document. The oa_link element is not mandatory but should be used whenever such data is available.			
(§)		ddf_doc/oa_link/@type	33)		
		Defines the type of the repository / resolver the URL points to, like "loc", "rem" and "doi" – see note.			
(§)		ddf_doc/oa_link/@version	34)		
		Describes the version of the document the URL points to, like "pre", "afv", "pub" and "oth" – see			

	note.	
(§)	ddf_doc/oa_link/@public_access	35)
	Describes the access rights to the document the URL points to, "oa", "ea", "ra", "ca" and "und" – see note.	
!	ddf_doc/oa_link/@license	
	Describes the license attached to the document, if applied, like "cc-by"	
!	ddf_doc/oa_link/@embargo_start	
	Embargo start date, if applied. In the format yyyy-mm-dd	
!	ddf_doc/oa_link/@embargo_end	
	Embargo end date, if applied. In the format yyyy-mm-dd	
!	ddf_doc/oa_link/@url	
	The URL pointing directly to the electronic file.	

## **Related Object element**

!	®	ddf_doc/related_object	
		This repeatable element is used to define the relation between objects. The element is not mandatory but should be used whenever such data is available.	
(§)		ddf_doc/related_object/@managed	37)
		Indicates if the related objects are managed in the same system or in separate systems	
(§)		ddf_doc/related_object/@rel_type	38)
		Describes the relation type eg. "uri", "doi" or "id" – see note.	
(§)		ddf_doc/related_object/@obj_type	39)
		Describes the type of the object eg. "dataset", "publication", "activity" etc. – see note.	

## 4. Notes

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

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

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

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

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

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

See <a href="http://www.ietf.org/rfc/rfc3066.txt">http://www.ietf.org/rfc/rfc3066.txt</a> and <a href="http://www.org/WAI/ER/IG/ert/iso639.htm">http://www.org/WAI/ER/IG/ert/iso639.htm</a> and <a href="http://www.loc.gov/standards/iso639-2/">http://www.loc.gov/standards/iso639.htm</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	
рор	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.

#### Codes for exporting database/institution (for @rec\_source)

Codes in alphabetical order:

6)

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
bio	Det Bioteknologiske Forsknings- og Udviklingsprogram
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
ucv	Professionshøjskolerne
•	Further codes may be registered with DDF

7)	Record status codes (for @rec_status)		
Code	Danish text	English text	Comment
n	Ny post	New record	
С	Rettet post	Corrected/updated record	
-			

d Slettet post Deleted record

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

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

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

► Further codes may be registered with DDF

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

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

► Further codes may be registered with DDF

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

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

#### ► Further codes may be registered with DDF

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

For the organisation, the reference key is a simple number "0"-"999" which uniquely identifies organisations within the document record. For the person, the reference key is a list (space separated) of numbers which are used to associate a person unambiguously with one or more organisations to which s/he is affiliated. The reference key is not intended to carry any meaning outside the context of the document record.

12) Id	lentification system codes (f	or @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	FI national researcher DB	For use with the Danish researcher DB
ec_ga_fp7	EU FP7 Bevillingsaftale nr.	EC FP7 Grant Agreement No.	For use with OpenAIRE compliance and EC Grant Agreement numbers

► Further codes may be registered with DDF

\* The local IDs are defined by the data supplying organisations see note 6). A local ID prefixed with the code of the data-supplying organisation becomes nationally unique.

13)	Countries - codes and	l names		
Code	Danish text	English text	Comment	
au	Australien	Australia		
at	Østrig	Austria		
са	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		
јр	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

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

Code	Danish text	English text	Comment
ер	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

- 1 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	
а	Accepteret	Accepted	
i	I trykken	In press	
e	E-publiceret (før tryk)	E-published (ahead of print)	
р	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_level					
English display text	code	pr	or	nr	und	sci	edu	рор	adm	und
Journal article	dja	pr	or	nr	und	sci	edu	рор		und
Journal letter (to the editor)	djl	pr	or	nr	und	sci	edu	рор		und
Journal comment	djc	pr	or	nr	und	sci	edu	рор		und
Journal review article	djr	pr	or	nr	und	sci	edu	рор		und
Journal book review	djb	pr	or	nr	und	sci	edu	рор		und
Newspaper article	dna		or	nr	und			рор		Und
Book	db	pr	or	nr	und	sci	edu	рор		und
Book chapter	dba	pr	or	nr	und	sci	edu	рор		und
Book preface, encyclopedia article	dbp	pr	or	nr	und	sci	edu	рор		und
Report	dr	pr	or	nr	und	sci	edu		adm	und
Report chapter	dra	pr	or	nr	und	sci	edu		adm	und
Conference paper	dcp	pr	or	nr	und	sci	edu			und
Conference abstract	dca	pr	or	nr	und	sci	edu			und
Conference poster	dco	pr	or	nr	und	sci	edu			und
Conference talk/presentation	dct	pr	or	nr	und	sci	edu			und
Working paper, (pr)eprint,	dw		or	nr	und	sci	edu	рор	adm	und
Lecture notes	dln			nr	und		edu			und
Lecture	dl			nr	und		edu			und
Patent	dp			nr	und	sci				und
Thesis Doctoral	dtd			nr	und	sci				und
Thesis Ph.D.	dtp			nr	und	sci				und
Thesis Master	dtm			nr	und		edu			und
Thesis Bachelor	dtb			nr	und		edu			und
Thesis Diploma Bachelor	dtdb			nr	und		edu			und
Student report	dts			nr	und		edu			und
Software	dso			nr	und	sci	edu		adm	und
Data set	dd			nr	und	sci	edu		adm	und
Radio/TV broadcast	drt			nr	und		edu	рор		und
Other	do	pr	or	nr	und	sci	edu	рор	adm	und

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

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

22)	Valid page numbering for Firstpage-Lastpage
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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 <a href="http://www.iana.org/assignments/media-types/">http://www.iana.org/assignments/media-types/</a>

#### 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.
са	Campus adgang	Campus access	For use with campus only access.
ea	Foreløbig lukket adgang	Embargoed access	For use with publications under an
			embargo.
na	Ingen offentlig adgang	No public access	For use with non-public and owner only
			access.

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

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

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

29)	ISSN/ISBN type defin	ISSN/ISBN type definition (for @type)					
<b>Code</b> pri	Danish text ISSN/ISBN	<b>English text</b> ISSN/ISBN	<b>Comment</b> For use with primary ISSN/ISBN				
ele resource	E-ISSN/E-ISBN s.	E-ISSN/E-ISBN	For use with ISSN/ISBN for electronic				
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	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 t
rev	Revideret version	Revised version	Any revisions after the

er version	Version as published by publisher
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	Forelæsning	Lecture	
cla	Undervisningstime	Class	
ses	Session	Session	
tra	Konferencespor	Conference track	
wor	Workshop	Work shop	

#### 33) Type of OA link (for @type)

Code	Danish text	English text	Comment
loc	Lokal database	Local repository	For use with URL pointing to a local repository
rem	Ekstern database	Remote repository	For use with URL pointing to a remote repository
doi	doi	doi	For use with URL pointing to a DOI resolver. The DOI name of the entity is represented in the URL

#### 34) Version of entity in relation to OA link (for @version)

Code	Danish text	English text	Comment
pre	Pre-print	Preprint	
afv	Forfatters endelige version	Authors final version	
pub	Udgivet version	Published version	
oth	Anden 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	
ea	Embargo periode	Embargoed Access	
ra	Begrænset tilgang	Restricted Access	
са	Utilgængelig	Closed Access	
und	Ikke angivet	Not Set	

#### 36) Code for type of external identifier (for @type)

#### Code Text

pmid	PubMed
pmcid	PubMed Central

wos Web of Science scopus Scopus

► Further codes may be registered

37)	Management of object (for @managed)			
Code	Danish text	English text	Comment	
true	Internt	Internally	Managed in the same system as the document	
false	Eksternt	Externally	Not managed in the same system as the document	

38)	Type of relation (for @rel_type)			
Code	Danish text	English text	Comment	
uri	uri	uri		
id	id	id		
doi	doi	doi		

#### 39) Type of object (for @obj\_type)

<b>Code</b> dataset	<b>Danish text</b> Datasæt		<b>English text</b> Dataset	Comm	ient	
publication	Publikation		Publication			
activity	Aktivitet		Activity	prize	Pris	Prize
	media	Presse /	/ Medie	Press / Media	project	Projekt
	Project	event	Begive	enhed	Event	
person	Person		Person			
organisation	Organisation		Organisation			
publisher	Forlag		Publisher			
other	Andet		Other	award	Bevilling	
Award						
course	Kursus		Course			
application	Ansøgning		Application			

► Futher object types may be registered