Complete list of changes from DDF-MXD 1.1.0 to 1.2.0

This document provides an overview of the changes that have been made in DDF-MXD from version 1.1.0 to 1.2.0. All changes described here are implemented in the DDF-MXD documentation, but needs to be added to the MXD-Schema and validation procedures. In addition the update need to be taken up be the data providers Orbit and PURE installations plus single DPs base on legacy systems. And last the changes will influence the presentation in the DDF frontend and will be described in the last section.

1. Elements and attributes added

Sections with added elements are shown below and the actual elements are marked with red.

Root element:			
\<ddf_doc\>	§		
@format_version	§	Exchange format version used - "1.1.0" for current version	
@doc_type	§	Type of document	1)
@doc_lang	§	Language of document	2)
@doc_year	§	Annual report year of the document (may differ from publication year)	3)
@doc_review	§	Document review process type like "peer-review", "no review"	4)
@doc_level	§	Indicating purpose/audience like "scientific", "educational", "popular"	5)
@rec_source	§	Code of exporting database/institution	6)
@rec_id	§	Data supplier's local record ID - must be unique for supplier	
@rec_created	§	Date when the record was first created in the local database, in yyyy-mm-dd	
@rec_upd	§	Last update date in format yyyy-mm-dd	
@rec_status	§	Whether the record is to be considered as "new", "updated" or "deleted"	7)

The root element has been enhanced with a created element.

\<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	(§)	Reference no. of the affilition within the record (links person to organisation)	11)
\<name\>	(§)		
\<first\>	(§)	First name (personal name) or initials	
\<last\>	(§)	Last name (family name)	
\<id\>	? ®	Identification number or code	
@id_type	(§)	Type of ID, registered with DDF - like Danish CPR no.	12)
@id_source	+	Source of the person-ID, i.e. aau, cbs etc. only for use with the Danish DNFD	6)
\<title\>	?	Title	
\<birthdate\>	?	In format yyyy-mm-dd	
\<country\>	?	Country of citizenship using ISO country codes	13)
\<address\>	?	Postal address	
\<email\>	?	Email address	
\<uri\>	?	URI (URL) link to web page	

The person container has been added with a id_source attribute that will be used to identify unique person_ids. This source attribute is different from the rec_source attribute as it is strictly related to the person/author.

<description>		**!**		
	****	**!**	**®**	Summary of content
	@xml:lang	?		Language of abstract	2)
	<note>	?	®	Any descriptive note
	@xml:lang	?		Language of note	2)
	<thesis>	**!**		Special thesis note
		<institution>	**!**	Name of the academic institution awarding the degree
		<advisor>	+	Name of the academic advisor/supervisor
		<aw_date>	+	Date of awarded degree in format yyyy-mm-dd
		<other>	?	Any other information
	<subject>	**!**		Subject description
		<keyword>	**!**	**®**
		@key_type	(§)	Vocabulary/theasurus used, like "EUDISED", "INSPEC" or "free"	8)
		@xml:lang	?	Language of keyword	2)
		<class>	**!**	**®**
		@class_type	(§)	Classification system used, like "DDC", "UDC", "DEF", "DK5"	9)
		@xml:lang	?	Language of classification	2)
		<research_area>	**!**	Special national research area, used by DASTI
		@area_code	(§)	One of four national research areas.	31)
		@xml:lang	?	Language of research area	2)

The description container that holds descriptive information like keywords and classification systems has been added with information about the special national research area in which the publication has been published.

<event>	**!**	**®**	Event (like conference) related to the document
@event_role	(§)		Role of the event in relation to the document (see note)	16)
@dasti_conference_no	**!**		DASTI conference number from the DASTI conference database	26)
<title>	(§)	**®**	Title - only repeatable in case of language variants
@xml:lang	[§]		Language of the event title (mandatory if title is repeated)	2)
<full>	(§)		Full title, like "European Conference on Digital Libraries"
<acronym>	**!**		Acronym title, like "ECDL"
<number>	**!**		Number in series of recurrent events, like "8"
<dates>	**!**		
<start>	(§)		First day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy	19)
<end>	(§)		Last day of the event in format yyyy-mm-dd, or yyyy-mm, or yyyy	19)
<place>	**!**		Place (city, country) of the event/conference
<uri>	?		URI (URL) link to web page

To the event container that includes data on events like conferences – an attribute that makes it possible to match records of publications that has been published at DASTI authorised conferences.

<publication>		**§**	Use one (minimum) or more of the cases below
	<in_journal>	**!**	Use for articles, papers published in a journal (incl. proceedings issues)
	@pub_status	(§)	Status of publication, like "submitted", "accepted", "published"	18)
	<title>	(§)	Journal title
	<title_alternative>	**!**	**®**	Alternative journal title, i.e. former title, title from other data sources and languages
	<issn>	**!**	**®**	ISSN no. without dashes	23)
	@type	**!**	Defining electronic or print ISSN
	<year>	**!**	Year of publication in format yyyy
	<vol>	**!**	Volume no.
	<issue>	**!**	Issue no.
	<pages>	**!**	In the format Firstpage-Lastpage (when Paper ID, the number of pages)	22)
	<paperid>	**!**	Paper ID
	<doi>	**!**	DOI no.
	<journal_no>	**!**	FI journal number from the FI journal database	28)
	<uri>	+	URI (URL) link to article on journal web site
	@access	+	Use to state the accessibility of the linked article, i.e. "Open Access"	27)

The publication container element has been added a title_alternative element as this is an element in the AUX-JOU format and will add value for the user when searching DDF. More importantly for the Bibliometric Research Indication (BRI) is the journal_no element that will be used to match the journal or publication channel with the journals authorised by DASTI.

Last added attribute is @access, which is from the last extension of DDF that hasn't been implemented yet. This attribute will help DDF to recognise OA accessible materials from data providers

Element			Description	Note
<in_book>	!		Use for chapters, papers published as a part of a book (incl. proceedings)	
@pub_status	(§)		Status of publication, like "submitted", "accepted", "published"	18)
<title>	(§)		Book title	
<sub_title>	+		Book sub title	
<part>	!		Part designation of a multipart work ("Vol. 1", "Bind 4: Middelalderen" etc)	
<edition>	!		Book edition, like "2. rev. udg."	
<editor>	!		Name of the editor of the book	
<isbn>	!	®	ISBN no. without dashes	24)
@type	!		Defining electronic or print ISBN	29)
<issn>	!	®	ISSN no. without dashes	23)
@type	!		Defining electronic or print ISSN	29)
<place>	!		Place of publication	
<publisher>	!		Name of publisher	
<year>	!		Year of publication in format yyyy	
<doi>	!		DOI no.	
<pages>	!		In the format Firstpage-Lastpage	22)
<series>	!	®	Book series	
<publisher_no>	!		FI publisher number from the FI publisher database	28)
<uri>	+		URI (URL) link to web site of book	
@access	+		Use to state the accessibility of the linked article, i.e. "Open Access"	27)

As with journals the in_book container has been added a publisher_no that will be used to verify publishers within the BRI architecture. The container has also been added the @access attribute. In addition to these extensions the container has been added a @type attribute for identifying specific ISBN and ISSN types. The in book element has also been added an ISSN and DOI elements.

Element			Description	Note
<in_report>	!		Use for chapters, papers etc published as a part of a report	
@pub_status	+		Status of publication, like "submitted", "accepted", "published"	18)
<title>	(§)		Report title	
<sub_title>	+		Report sub title	
<part>	!		Part designation of a multipart work ("Vol. 1", "Bind 4: Middelalderen" etc)	
<editor>	!		Name of the editor of the report	
<isbn>	!	®	ISBN no. without dashes	24)
@type	!		Defining electronic or print ISBN	
<rep_no>	!		Report series and number	
<place>	!		Place of publication	
<publisher>	!		Name of publisher	
<year>	!		Year of publication in format yyyy	
<pages>	!		In the format Firstpage-Lastpage	22)
<paperid>	!		Paper ID	
<doi>	!		DOI no.	
<uri>	+		URI (URL) link to web site of report	
@access	+		Use to state the accessibility of the linked article, i.e. "Open Access"	27)

The in_report container is not related to the DASTI/BRI model but has been added pages, paperid and doi elements that will give more precise date on reports when available. Again subtitle element and @type attribute for isbn and @access attribute has been added.

Element			Description	Note
<book>	!		Use when the document is an entire book	
@pub_status	(§)		Status of publication, like "submitted", "accepted", "published"	18)
<edition>	!		Book edition, like "2. rev. udg."	
<isbn>	!	®	ISBN no. without dashes	24)
@type			Defining electronic or print ISBN	
<place>	!		Place of publication	
<publisher>	!		Name of publisher	
<year>	!		Year of publication in format yyyy	
<pages>	!		Total no. of pages	
<series>	!	®	Book series	
<publisher_no>	!		FI publisher number from the FI publisher database	
<uri>	+		URI (URL) link to web site of book	
@access	+		Use to state the accessibility of the linked article, i.e. "Open Access"	27)

The book container has also been added a publishers_no element besides the ISBN type attribute and the @access

<report>	!		Use when the document is an entire report	
@pub_status	+		Status of publication, like "submitted", "accepted", "published"	18)
<isbn>	!	®	ISBN no. without dashes	24)
@type	!		Defining electronic or print ISBN	
<rep_no>	!		Report series and number	
<place>	!		Place of publication	
<publisher>	!		Name of publisher	
<year>	!		Year of publication in format yyyy	
<pages>	!		Total no. of pages	
<uri>	+		URI (URL) link to web site of report	
@access	+		Use to state the accessibility of the linked article, i.e. "Open Access"	27)

<patent>	!		Use when the document is a patent (application)	
@pub_status	(§)		Status of publication, like "submitted", "accepted", "published"	18)
<country>	!		Country of patent issue using ISO country codes	13)
<ipc>	!		International Patent Classification	20)
<number>	!		Patent no.	
<date>	!		Date of status above in format yyyy-mm-dd	
<uri>	+		URI (URL) link to web site of patent	
@access	+		Use to state the accessibility of the linked article, i.e. "Open Access"	

<inetpub>	!	®	Use when epublished on the net (institutional repository, preprint server)	
<text>	(§)		Text describing the file and service: "PDF on personal home page"	
<uri>	(§)		The URI (URL)	
@access	+		Use to state the accessibility of the linked article, i.e. "Open Access"	27)

Report, patent and inetpub has been added with a @access attribute.

<digital_object>	!	®	Digital object - typically a full text
@id	(§)		Unique id for the parent record
@role	!		What is the role of the object in relation to the record ie. Postprint
@access	(§)		Use for stating the access rights for the object ie. "Open Access"	27)
<description>	!		Description of the specific digital object
<file>	(§)		System generated description of the digital_object
@lang	!		Language of the file	2)
@size	[§]		The size of the file
@mime_type	!		Mime type for the file must comply with the IANA specifications	25)
@timestamp	[§]		Timestamp given when the file was change or uploaded	26)
@filename	[§]		Name of the file when uploaded
<description>	!		Description of the specific version
<uri>	!		URI (URL) to the digital object ie. in the local repository

 The new digital_object container is nested in the <publication> element.

2. Changes and add-ons to Enumerations

Note 1, Document types:

To comply with the BRI requirements the document type Tidsskrifts-kommentar/Journal comment/letter/rev. must be split into two or three categories, where Letter will be the most important category. I suggest three categories. The new granularity of these document types are mostly to satisfy the demands from DASTI as their specifications are only valid from 2008 the need for changing older records won't be necessary.

Code	Danish Text	English Text	
djl	Tidsskrifts-letter	Letter to the editor	
djc	Tiddskrifts-kommentar	Journal comment	
djr	Tidsskrifts-review artikel	Journal review article	
djb	Tidsskrifts-anmeldelse	Journal book review	

Note 6, Data providers:

Current/new DPs	Change to code	And Long name	
hhk	cbs	Copenhagen Business School	
kvl		Københavns Universitet Det Biovidenskabelige Fakultet	
fak		Forsvarsakademiet	
itu		IT-universitetet i København	
auc	aau	Aalborg Universitet	

Note 13, Country codes

Serbia is added with the code "rs".

Note 21, Valid combinations of values of the 3 attributes @doc_type, @doc_review and @doc_level

Code - @doc_type	@doc_review	@doc_level	
djl	pr, or, nr, und	sci, edu, pop, und	
djc	pr, or, nr, und	sci, edu, pop, und	
djr	pr, or, nr, und	sci, edu, pop, und	

Note 22, valid page numbering

Change validation as specified by Franck Falcoz

```
<simpleType name="_PagesType">
  <union>
    <simpleType>
      <restriction base="string">
        <pattern value="[A-Za-z]?\d{1,6}-[A-Za-z]?\d{1,6}"/>
      </restriction>
    </simpleType>
    <simpleType>
      <restriction base="string">
        <pattern value="[A-Za-z]?\d{1,6}"/>
      </restriction>
    </simpleType>
  </union>
</simpleType>
```

Note 25, Mime_types

Complete list for mime_types must be added.
http://www.webmaster-toolkit.com/mime-types.shtml

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

Note 27, Access definitions

Code	Danish Text	English Text
oa	Open Access	Open Access
ca	Campus adgang	Campus Access
na	Ingen offentlig adgang	No public access

NB! 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.

Note 29, ISSN/ISBN type

Do we want to enumerate the ISSN/ISBN specification, like this:

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

Note 30, Digital Object code

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

Note 31, National area code

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