

# SwePub MODS metadata format specification – version 2.5

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# 1 Introduction

## 1.1 About the specification

This document is the formal specification of the SwePub MODS publication metadata format updated 2014 to improve the use of bibliometrics in the SwePub publication system. The major part of the updates is focused on identifiers for publications, researchers and organisations to improve the stability of publication statistics for Swedish researchers and organisations.

The new specification is based on the initial SwePub MODS format specification 2.0 from 2012<sup>1</sup>, adds some features suggested by a study initiated by the Association of Swedish Higher Education (SUHF) in 2012<sup>2</sup> and further features developed by a government-commissioned project at the National Library of Sweden (NLS) during the spring 2014.

This version (1.0) of specification for SwePub MODS version 2.5 is released as a beta test working document during the summer 2014, and might be the subject to minor corrections and changes during the fall 2014 when omissions and errors are spotted. The SwePub Analysis project has scheduled the SwePub MODS format to be further developed during a number of iterations during the fall 2014, but our ambition is to be as backward compatible as possible and to avoid changes in parts that have been worked on during the five first iterations in the spring 2014.

## 1.2 General information about record exchange and format

- Metadata records are harvested from local publication systems to the SwePub system at the National Library of Sweden using the protocol OAI-PMH.
- Metadata records harvested in the SwePub MODS format 2.1 or later must be based on Library of Congress MODS version 3.5 or later.
- Character coding in MODS XML files must be UTF-8.
- All main elements in SwePub MODS, except for *recordInfo* and *physicalDescription* are repeatable.
- Metadata elements without content are not to be included in SwePub MODS records.
- If the attribute *lang* is used the language code must be specified using a code according to standards ISO 639-2b<sup>3</sup> or ISO 639-3<sup>4</sup>.
- If an element is repeated with content in different languages, the attribute *lang* must be used for all elements.
- Elements containing strings for years, dates and identifiers (as DOI, ISSN, ISBN or ORCID) must not contain any other data except the year, the date or the identifier code.

## 1.3 Key to element specifications

Top-level SwePub MODS elements are given a heading in this documentation to avoid abundant nesting of headings due to the hierarchy of XML elements. All top level MODS elements reside in the following position in the OAI-PMH document set hierarchy:

```
<OAI-PMH>
  <ListRecords>
    <record>
      <metadata>
        <mods>
          <element>
```

The metadata elements are presented according to a compressed and standardised format with a uniform set of explanations:

<sup>1</sup> SwePub MODS specification 2.0 (2012-10-10). [http://api.libris.kb.se/swepub/kravspec\\_20081118.pdf](http://api.libris.kb.se/swepub/kravspec_20081118.pdf)

<sup>2</sup> Vidareutveckling av formatspecifikationen för SwePub MODS på nationell nivå. 2012.

<http://www.suhf.se/arbetsgrupp/avslutadearbetsgrupperochprojekt/vidareutvecklingavformatsspecifikationeforswepubmodspanationellniva>

<sup>3</sup> [http://www.loc.gov/standards/iso639-2/php/code\\_list.php](http://www.loc.gov/standards/iso639-2/php/code_list.php)

<sup>4</sup> <http://www-01.sil.org/iso639-3/default.asp>

<b>Element name</b>	Name of element in the XML code. In some cases where the top element is a pure container sub-elements are included in the element description.
<b>Purpose</b>	The purpose of the element
<b>Sub-elements</b>	Commonly used sub-elements on the next level in the XML hierarchy in SwePub MODS
<b>Attributes</b>	Special and important attributes to specify properties of the data contents of the element, together with a list of commonly used attribute values in SwePub
<b>Usage</b>	The technical use of the element. States if the element is mandatory (M), mandatory if applicable (A), or optional (O)
<b>Praxis</b>	A short indication of suitable praxis for registration. For further discussion of recommended registration praxis, see the SwePub registration praxis guidelines <sup>5</sup>
<b>Motivation</b>	A short motivation for the use of the element and its content
<b>Code example</b>	XML code example for the element, its attributes and surrounding and nested elements for context
<b>Version/date</b>	SwePub MODS version for element specification and last modification date
<b>New</b>	Comments about what has been changed from SwePub MODS version 2.0
<b>List of values</b>	List of values to be used in this element, if restricted by format or praxis
<b>Discussion</b>	Further discussion about the element and its usage

#### 1.4 Relation to praxis for registration

This specification is intended to be as neutral as possible with regards to practices for registration of data, but nevertheless it sometimes has to indicate what kind of data that is expected in the elements, and therefore have to contain some suggestions for registration praxis. For a more thorough discussion of registration practices, see the guide for registration praxis in local databases delivering data to the SwePub system. The parts on registration praxis in this documentation may be subject to changes as guidelines for registration evolves and are in all cases superseded by instructions in guides concerning registration praxis.

The guidelines for registration praxis (in Swedish) can be found here:

<https://docs.google.com/document/d/1R3HBvT-vvG3UUu7GZMB2Z2AIQyDFmvVZicc6kP5i7mE>

#### 1.5 Overview of major changes from SwePub MODS version 2.0

- All publication originators (authors, creators) that have a relation to the organisation entering the publication metadata record must have a *name* entry with an affiliation.
- Affiliations for Swedish organisations that are delivering records to SwePub must have a controlled identifier added as an attribute to the *affiliation* element.
- All publication records must contain a *note* of type *creatorCount* stating the total number of authors/creators to the resource.
- Name elements for originators from the organisation entering the publication record should have at least one unique identifier for the person on organisational, national or global level.
- *role* and *roleTerm* elements are mandatory for originators from the organisation entering the publication record.
- The additional role *cre* is introduced to improve automatic counting of the number of creators to a publication.
- The use of role *pbl* for originator organisations (name type corporate) is deprecated in favour of role *org*.

<sup>5</sup> <https://docs.google.com/document/d/1R3HBvT-vvG3UUu7GZMB2Z2AIQyDFmvVZicc6kP5i7mE>

## 1.6 Working group and contact

The SwePub MODS focus group within the SwePub Analysis development project has been comprised of the following persons:

- Henrik Aldberg, Swedish Research Council
- Urban Andersson, Chalmers University of Technology
- Stina Degerstedt, National Library of Sweden
- Jörgen Eriksson, Lund University
- Joakim Philipson, National Library of Sweden
- Marja Haapalainen, National Library of Sweden
- Peter Hansson, Chalmers University of Technology
- Jürgen Kerstna, National Library of Sweden
- Ulf Kronman, National Library of Sweden
- Christer Larsson, National Library of Sweden
- Peter Sjögårde, KTH Royal Institute of Technology
- Per Åberg, Stockholm University

Comments and questions regarding the SwePub MODS format can be sent to: [ulf.kronman \[at\] kb.se](mailto:ulf.kronman@kb.se).

## 1.7 References

CRIStin. Håndbok for bruk av metadata i norske forskningsarkiv. Version 1.1. 2012.

<http://www.cristin.no/open-access/metadata.html>

Metadata Object Description Schema (MODS). 2013.

<http://www.loc.gov/standards/mods/>

MODS Metadata Object Description Schema, version 3.5. 2013.

<http://www.loc.gov/standards/mods/v3/mods-3-5.xsd>

Nationella riktlinjer för dataleverans till SwePub av forskningspublikationer för analys. Förslag. Version 1.0. <https://docs.google.com/document/d/1R3HBvT-vvG3UUu7GZMB2Z2AIQyDFmvVZicc6kP5i7mE>

Nationellt format för publiceringsdatabaser (lokala register över akademisk publicering). Version 1.2. 2005. [http://www.kb.se/Dokument/Om/projekt/SVEP/nationellt\\_format.pdf](http://www.kb.se/Dokument/Om/projekt/SVEP/nationellt_format.pdf)

ORCID - Open Researcher and Contributor ID.

<http://orcid.org/>

Outline of Elements and Attributes in MODS Version 3.5. 2013.

<http://www.loc.gov/standards/mods/mods-outline-3-5.html>

Statistics Sweden: Standard för svensk indelning av forskningsämnen 2011.

<http://www.scb.se/sv/Dokumentation/Klassifikationer-och-standarder/Standard-for-svensk-indelning-av-forskningsamnen-2011/>

SwePub.

<http://swepub.kb.se/>

SwePub project specification 1.1 (2008-10-23) and SwePub MODS specification 2.0 (2012-10-10).

[http://api.libris.kb.se/swepub/kravspec\\_20081118.pdf](http://api.libris.kb.se/swepub/kravspec_20081118.pdf)

The Open Archives Initiative Protocol for Metadata Harvesting. 2008.

<http://www.openarchives.org/OAI/openarchivesprotocol.html>

Vidareutveckling av formatspecifikationen för SwePub MODS på nationell nivå. 2012.

<http://www.suhf.se/arbetsgrupp/avslutadearbetsgrupperochprojekt/vidareutvecklingavformatspecifikationenforswepubmodspanationellniva>

## 2 MODS root element

<b>Element name</b>	mods
<b>Purpose</b>	The MODS metadata wrapper
<b>Sub-elements</b>	All applicable MODS top-level elements and sub-elements
<b>Attributes</b>	xmlns, xmlns:xsi, xsi:schemaLocation
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	Must encapsulate each MODS XML metadata record
<b>Motivation</b>	Metadata wrapper with attributes specifying Library of Congress MODS metadata format and version as basis for SwePub MODS
<b>Code example</b>	<pre>&lt;mods xmlns="http://www.loc.gov/mods/v3" version="3.5"       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"       xsi:schemaLocation="http://www.loc.gov/mods/v3                           http://www.loc.gov/standards/mods/v3/mods-3-5.xsd"&gt;     ... &lt;/mods&gt;</pre>
<b>Version/date</b>	2.1 / 2014-02-05 [Checked 2014-07-03]
<b>New</b>	MODS version 3.5 <sup>6</sup>
<b>Discussion</b>	MODS version > 3.5 is needed for attributes <i>stringPlusLanguagePlusAuthority</i> introduced in name and ID elements introduced in SwePub MODS > 2.0

## 3 Record information

<b>Element name</b>	recordInfo
<b>Purpose</b>	Container for information about the publication metadata record
<b>Sub-elements</b>	recordContentSource
<b>Attributes</b>	xmlns:xlink
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	Must be supplied for all records delivered to SwePub
<b>Motivation</b>	Container for record content source
<b>Code example</b>	<pre>&lt;recordInfo xmlns:xlink="http://www.w3.org/1999/xlink"&gt;   &lt;recordContentSource&gt; ... &lt;/recordContentSource&gt; &lt;/recordInfo&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 3.1 Record content source

<b>Element name</b>	recordContentSource
<b>Purpose</b>	The identifier for the organisation responsible for supplying the publication record
<b>Sub-elements</b>	-
<b>Attributes</b>	authority
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	The organisation responsible for the record must supply a controlled identifier in this element. In case of several organisations sharing system and records the element is to be repeated for each organisation.
<b>Motivation</b>	Record content source are used to track records back to their source after harvesting and possible merging of duplicates
<b>Code example</b>	<pre>&lt;recordInfo&gt;   &lt;recordContentSource&gt;gu&lt;/recordContentSource&gt;</pre>

<sup>6</sup> <http://www.loc.gov/standards/mods/v3/mods-3-5.xsd>

	<recordContentSource>cth</recordContentSource> <recordInfo>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]
<b>List of values</b>	Supplied by the National Library of Sweden

## 4 Record identifiers

<b>Element name</b>	identifier type uri
<b>Purpose</b>	Element to identify and/or link to the publication record
<b>Sub-elements</b>	-
<b>Attributes</b>	type (uri)
<b>Usage</b>	O – Optional
<b>Praxis</b>	Use to link to publication records in various systems
<b>Motivation</b>	To be used for links to publication records
<b>Code example</b>	<pre>&lt;identifier type="uri"&gt;     http://urn.kb.se/resolve?urn=urn:nbn:se:hh:diva-2104 &lt;/identifier&gt; &lt;identifier type="uri"&gt;     http://libris.kb.se/resource/bib/1292971 &lt;/identifier&gt; &lt;identifier type="uri"&gt;     http://www.worldcat.org/oclc/26904758 &lt;/identifier&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

## 5 Resource identifiers

<b>Element name</b>	identifier
<b>Purpose</b>	Element to identify the resource uniquely
<b>Sub-elements</b>	-
<b>Attributes</b>	type (doi; isbn; isi; scopus; pmid; patent_number; libris; worldcat)
<b>Usage</b>	A – Mandatory if the resource has a unique identifier
<b>Praxis</b>	<p>Elements with identifiers must not contain any other information than the identifier to be machine-readable. Prefixes as WoS: or ISBN: should not be included.</p> <p>Only identifiers to the actual resource in question must be used here, not identifiers to host publications as ISSN's and DOI's to composite works, as for instance conference proceedings and anthologies.</p>
<b>Motivation</b>	Used for deduplication of records, integration with commercial databases and links to document full texts
<b>Code example</b>	<pre>&lt;identifier type="doi"&gt;10.1109/IPDPS.2006.1639502&lt;/identifier&gt; &lt;identifier type="isbn"&gt;1-4244-0054-6&lt;/identifier&gt; &lt;identifier type="isi"&gt;000638471328858&lt;/identifier&gt; &lt;identifier type="scopus"&gt;2-s2.0-33847132885&lt;/identifier&gt; &lt;identifier type="pmid"&gt;23193287&lt;/identifier&gt; &lt;identifier type="libris"&gt;1292971&lt;/identifier&gt; &lt;identifier type="worldcat"&gt;26904758&lt;/identifier&gt; &lt;identifier type="patent_number"&gt;US 2007/0072443 A1&lt;/identifier&gt;</pre>
<b>Version/date</b>	2.2, 2.5 / 2014-03-07, 2014-05-13 [Checked 2014-07-03]
<b>New</b>	Controlled list of identifier types: doi; isbn; isi; scopus; pmid; patent_number; libris; worldcat
<b>Discussion</b>	URI identifiers for publication records can be used as a complement to resource identifiers for linking back to the originating repository, see "Record identifiers". Example: <pre>&lt;identifier type="uri"&gt;http://urn.kb.se/resolve?urn=urn:nbn:se:hh:diva-2104 &lt;/identifier&gt;</pre>

	<pre>&lt;identifier type="uri"&gt;   http://libris.kb.se/resource/bib/1292971 &lt;/identifier&gt;</pre>
--	---

## 6 Title and subtitle

<b>Element name</b>	titleInfo
<b>Purpose</b>	Container element for the main title and the subtitle of the resource
<b>Sub-elements</b>	title; subTitle
<b>Attributes</b>	type; displayLabel; xml:lang
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	Use language attributes according to ISO 639-2b or ISO 639-3 where applicable
<b>Code example</b>	<pre>&lt;titleInfo&gt;   &lt;title&gt; ... &lt;/title&gt;   &lt;subTitle&gt; ... &lt;/subTitle&gt; &lt;/titleInfo&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]
<b>Discussion</b>	Alternative titles are added by repeating the titleInfo element and indicating with attribute type="alternative"

### 6.1 Title

<b>Element name</b>	title
<b>Purpose</b>	The main title of the resource
<b>Sub-elements</b>	-
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	Use separate elements for main title and subtitle where possible. Put main title and subtitle in title element, separated by a colon (" : ") or a hyphen (" - ") surrounded with spaces if it is not possible to use separate fields.
<b>Motivation</b>	Used to identify the resource, give information about its content and improve searchability
<b>Code example</b>	<pre>&lt;titleInfo&gt;   &lt;title&gt;     Twenty years to nowhere : does land use affect regeneration     perspectives?   &lt;/title&gt; &lt;/titleInfo&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 6.2 Subtitle

<b>Element name</b>	subTitle
<b>Purpose</b>	The subtitle of the resource
<b>Sub-elements</b>	-
<b>Attributes</b>	-
<b>Usage</b>	A - Mandatory if applicable
<b>Praxis</b>	Use separate elements for main title and subtitle where possible
<b>Motivation</b>	Used to add information about the content of the resource and improve searchability
<b>Code example</b>	<pre>&lt;titleInfo&gt;   &lt;title&gt;Twenty years to nowhere&lt;/title&gt;   &lt;subTitle&gt;does land use affect regeneration perspectives?&lt;/subTitle&gt; &lt;/titleInfo&gt;</pre>

<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]
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## 7 Abstract

<b>Element name</b>	abstract
<b>Purpose</b>	An abstract of the resource
<b>Sub-elements</b>	-
<b>Attributes</b>	lang
<b>Usage</b>	0 – Optional
<b>Praxis</b>	Use language attributes according to ISO 639-2b or ISO 639-3 where applicable
<b>Motivation</b>	Used to describe the resource and improve searchability
<b>Code example</b>	<abstract lang="eng"> ... </abstract> <abstract lang="swe"> ... </abstract>
<b>Version/date</b>	2.5 / 2014-07-01 [Checked 2014-07-03]
<b>New</b>	Changed to optional in SwePub MODS 2.5

## 8 Subjects and keywords

### 8.1 Subject classification according to Swedish research subjects standard

<b>Element name</b>	subject (including sub-element topic)
<b>Purpose</b>	Three-level hierarchical classification of Swedish research subjects according to classification supplied by SCB/HSV
<b>Sub-elements</b>	topic
<b>Attributes</b>	lang; authority; xlink:href
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	Classification on level 3 is preferred. At least one classification on level 2 is mandatory.
<b>Motivation</b>	Publications will be assigned to research fields using this information in the publication indicator used by the Swedish Research Council for allocating performance-based funding to Swedish HEI's.
<b>Code example</b>	<subject lang="swe" authority="uka.se" xlink:href="60203"> <topic>Humaniora</topic> <topic>Språk och litteratur</topic> <topic>Litteraturvetenskap</topic> </subject> <subject lang="eng" authority="uka.se" xlink:href="60203"> <topic>Humanities</topic> <topic>Languages and Literature</topic> <topic>Literature</topic> </subject>
<b>Version/date</b>	2.5 / 2014-06-27 [Checked 2014-07-03]
<b>New</b>	Authority uka.se. Mandatory classification at level 2.
<b>List of values</b>	Standard för svensk indelning av forskningsämnen 2011. <a href="http://www.scb.se/sv/_Dokumentation/Klassifikationer-och-standarder/Standard-for-svensk-indelning-av-forskningsämmen-2011/">http://www.scb.se/sv/_Dokumentation/Klassifikationer-och-standarder/Standard-for-svensk-indelning-av-forskningsämmen-2011/</a>
<b>Discussion</b>	The analysis demands from the proposed model for performance-based funding makes the registration of at least one subject on minimum level 2 (3-number-level) mandatory, for a publication to be included in the analysis for the funding indicator. A maximum number of 3 subject classifications on level 2 is recommended. See more about this in the SwePub registration guidelines.  The standard was created in cooperation between Statistics Sweden (SCB) and "Högskoleverket" (HSV), which has been reorganised to "Universitetskanslersämbetet" (UKÄ),

	which now is responsible for the management of the list. Therefore, the authority for the list is given as uka.se in SwePub MODS.
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## 8.2 Keywords

<b>Element name</b>	subject (including sub-element topic)
<b>Purpose</b>	Keywords for improved findability and classification
<b>Sub-elements</b>	topic
<b>Attributes</b>	xmlns:xlink; lang;
<b>Usage</b>	O - Optional
<b>Praxis</b>	Use to improve searchability
<b>Motivation</b>	Use to increase searchability of publication records
<b>Code example</b>	<pre>&lt;subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng"&gt;     &lt;topic&gt;distributed processing&lt;/topic&gt; &lt;/subject&gt; &lt;subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng"&gt;     &lt;topic&gt;program compilers&lt;/topic&gt; &lt;/subject&gt; &lt;subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng"&gt;     &lt;topic&gt;telecommunication signalling&lt;/topic&gt; &lt;/subject&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

## 9 Language

<b>Element name</b>	language
<b>Purpose</b>	Container for language information elements
<b>Sub-elements</b>	languageTerm
<b>Attributes</b>	-
<b>Usage</b>	M – Mandatory
<b>Code example</b>	<pre>&lt;language&gt;     &lt;languageTerm&gt; ... &lt;/languageTerm&gt; &lt;/language&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 9.1 Language term

<b>Element name</b>	languageTerm
<b>Purpose</b>	The language(s) of the publication
<b>Sub-elements</b>	-
<b>Attributes</b>	type (code); authority (iso639-2b, iso639-3)
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	-
<b>Motivation</b>	-
<b>Code example</b>	<pre>&lt;language&gt;     &lt;languageTerm type="code" authority="iso639-2b"&gt;eng&lt;/languageTerm&gt; &lt;/language&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10, 2.3 / 2014-04-01 [Checked 2014-06-27]
<b>New</b>	ISO language code according to ISO 639-3 (authority="iso639-3") is now permitted both in Library of Congress MODS 3.5 and SwePub MODS version > 2.3
<b>List of values</b>	ISO language code according to ISO 639-3 or ISO 639-2b

## 10 Resource type

### 10.1 Publication type

<b>Element name</b>	genre (type publicationType)
<b>Purpose</b>	To describe the type of publication according to document types specified in SVEP
<b>Sub-elements</b>	-
<b>Attributes</b>	authority; type
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	For document selection and analysis
<b>Code example</b>	<genre authority="svep" type="publicationType">art</genre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-07-03]
<b>List of values</b>	art; bok; kon; kap; dok; rap; rec; sam; for; kfu; lic; pat; pro; ovr
<b>Discussion</b>	Codes <i>kfu/kfa</i> are deprecated as from SwePub MODS version 2.3, see new publication type artistic below

#### 10.1.1 Publication type - artistic

<b>Element name</b>	genre (type outputType)
<b>Purpose</b>	Double classification with new CASRAI output type creates the possibility to classify any publication output as artistic
<b>Sub-elements</b>	-
<b>Attributes</b>	authority; type
<b>Usage</b>	O - Optional
<b>Praxis</b>	Use as additional information for publications that are to be classified as artistic output
<b>Motivation</b>	Added for inclusion of artistic works in the SwePub system
<b>Code example</b>	<genre authority="svep" type="publicationType">bok</genre> <genre authority="kb.se" type="outputType">ArtisticPerformance</genre>
<b>Version/date</b>	2.3 / 2014-04-10 [Checked 2014-07-02]
<b>New</b>	Additional classification of artistic outputs according to CASRAI in combination with SVEP publication classification
<b>List of values</b>	ArtisticPerformance. Only the top-level classification of CASRAI Artistic/Performance output is used for this special additional classification.

### 10.2 Output type

<b>Element name</b>	genre (type outputType)
<b>Purpose</b>	Classification with new CASRAI Artistic/Performance output creates possibility for a number of artistic outputs
<b>Sub-elements</b>	-
<b>Attributes</b>	authority; type
<b>Usage</b>	A - Mandatory if applicable
<b>Praxis</b>	Due to backwards compatibility with SwePub MODS 2.0 the SVEP <i>publicationType</i> classification <i>ovr</i> must be used in combination with the new CASRAI <i>outputType</i> .
<b>Motivation</b>	Added for inclusion of artistic works in the SwePub system
<b>Code example</b>	<genre authority="svep" type="publicationType">ovr</genre> <genre authority="kb.se" type="outputType">ArtisticPerformance/visualArtworks</genre>

<b>Version/date</b>	2.3 / 2014-04-10 [Checked 2014-07-03]
<b>New</b>	Classification with new CASRAI output types for Artistic/Performance
<b>List of values</b>	Proposed, but not yet decided values (according to CASRAI): <a href="http://dictionary.casrai.org/documents/academic-funding-cv/1.1/contributions/outputs/artisticperformance">http://dictionary.casrai.org/documents/academic-funding-cv/1.1/contributions/outputs/artisticperformance</a>
<b>Discussion</b>	The CASRAI classification of outputs has not yet (2014-07-02) a classification of non-artistic media outputs as for instance instruction videos and recorded lectures.  Note: SwePub MODS version 2.3 has prepared a way for integration of CASRAI artistic output types, but actual values for artistic outputs in SwePub have not been decided yet.

## 11 Content type

<b>Element name</b>	genre (type contentType)
<b>Purpose</b>	Element used to describe the scientific level and/or target group for the resource
<b>Sub-elements</b>	-
<b>Attributes</b>	type; authority
<b>Usage</b>	M - mandatory
<b>Praxis</b>	Use to indicate the scientific level and the target group for the resource
<b>Motivation</b>	Used for filtering in SwePub search system
<b>Code example</b>	<genre authority="svep" type="contentType">ref</genre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]
<b>List of values</b>	ref (refereed); vet (other scientific); pop (popular science)
<b>Discussion</b>	This data is used for selection in the SwePub search system and kept for backwards compatibility. Input to local systems is not considered to be harmonised enough to make this information suitable for statistical analysis.

## 12 Publication status

<b>Element name</b>	note (type publicationStatus)
<b>Purpose</b>	To mark the status of records for unpublished works being harvested to the SwePub system
<b>Sub-elements</b>	-
<b>Attributes</b>	type
<b>Usage</b>	A - Mandatory for non-published works
<b>Praxis</b>	Use in any record for a work that has not been formally published
<b>Motivation</b>	Used to distinguish published works from non-published works in analyses
<b>Code example</b>	<note type="publicationStatus">Accepted</note>
<b>Version/date</b>	2.5 / 2014-06-25 [Checked 2014-07-03]
<b>New</b>	This element is new in SwePub MODS >= 2.5
<b>List of values</b>	Preprint; Submitted; Accepted; In press; Epub ahead of print/Online first; Published
<b>Discussion</b>	Since the SwePub system will deliver publication records for researcher CV's in the application system Prisma, there is a need for the system to contain information for unpublished works. To be able to separate records for published works from records for unpublished works, the data format has to include a way to mark records for works that are not published.  The use of <i>note type publicationStatus</i> is mandatory for all works that are not formally published. For published works the use of <i>note type publicationStatus="Published"</i> is optional.  The actual status of an unpublished work is not used centrally for analysis, but is a matter of local choice. The information is only used centrally to distinguish published works from

	unpublished works.
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## 13 Names and affiliations

<b>Element name</b>	name
<b>Purpose</b>	The name of a person, organisation, or event (conference, meeting, etc.) associated in some way with the resource
<b>Sub-elements</b>	namePart; role; affiliation; description
<b>Attributes</b>	type (personal; corporate; conference); authority; xlink; lang
<b>Usage</b>	A - Mandatory for originators affiliated with the organisation responsible for entering the record
<b>Praxis</b>	All originators related to the organisation registering the record must be represented by a <i>name</i> element each
<b>Motivation</b>	Name is a wrapper element that contains all sub-elements related to name information
<b>Code example</b>	<pre>&lt;name&gt;   &lt;namePart&gt; ... &lt;/namePart&gt;   &lt;role&gt; ... &lt;/role&gt;   &lt;affiliation&gt; ... &lt;/affiliation&gt;   &lt;description&gt; ... &lt;/description&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 13.1 Person name, identifier and affiliation

<b>Element name</b>	name (type personal)
<b>Purpose</b>	Name, identifiers and affiliation for a person with a relation to the resource
<b>Sub-elements</b>	namePart; role; affiliation; description
<b>Attributes</b>	authority; xlink; lang
<b>Usage</b>	A - Mandatory for originator persons related to the organisation responsible for entering the record
<b>Praxis</b>	All originator persons related to the organisation registering the record must be represented by a name element each
<b>Motivation</b>	Researchers and their affiliations need to be identified for researcher-based publication statistics for researchers or related organisations
<b>Code example</b>	<pre>&lt;name xmlns:xlink="http://www.w3.org/1999/xlink" type="personal"   authority="hh" xlink:href="je4xe"&gt;   &lt;namePart&gt; ... &lt;/namePart&gt;   &lt;role&gt; ... &lt;/role&gt;   &lt;affiliation&gt; ... &lt;/affiliation&gt;   &lt;description&gt; ... &lt;/description&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.1 / 2014-02-21 [Checked 2014-06-27]
<b>New</b>	The SwePub authorised organisation identifier for the organisation responsible for the identifier used in xlink:href must be given in the attribute authority, if an xlink:href identifier is given. This is usually the first part of the organisation's internet domain name.

#### 13.1.1 Name Part

<b>Element name</b>	namePart
<b>Purpose</b>	Parts of a personal name
<b>Sub-elements</b>	-
<b>Attributes</b>	type (date; family; given)
<b>Usage</b>	M - Mandatory

<b>Praxis</b>	The use of separate name parts given and family name is recommended for easier identification, especially for person name elements without supplied ID's
<b>Motivation</b>	The use of name parts makes extraction of publications based on researcher names more exact and makes merging of name entries easier and safer
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;namePart type="family"&gt;Bengtsson&lt;/namePart&gt;   &lt;namePart type="given"&gt;Järker&lt;/namePart&gt;   &lt;namePart type="date"&gt;1965&lt;/namePart&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 13.1.2 Person identifier ORCID

<b>Element name</b>	description (type orcid)
<b>Purpose</b>	Identifier for the element <i>name type personal</i>
<b>Sub-elements</b>	-
<b>Attributes</b>	type (orcid); xsi:type (identifierDefinition)
<b>Usage</b>	A - Mandatory if applicable. Use for originators with a relation to the organisation entering the record, if the person has an ORCID
<b>Praxis</b>	Use ORCID where possible. Enter the ORCID as a 19 character long string in the format XXXX-XXXX-XXXX-XXXX
<b>Motivation</b>	Global identifiers are needed to make extraction of publication records based on author identities more stable
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;description xsi:type="identifierDefinition" type="orcid"&gt;     0000-0002-6848-3956   &lt;/description&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.2 / 2014-03-01 [Checked 2014-06-27]
<b>New</b>	description type orcid was introduced in SwePub MODS 2.2
<b>List of values</b>	Registered ORCID ID's, see <a href="https://orcid.org/orcid-search/quick-search/">https://orcid.org/orcid-search/quick-search/</a>
<b>Discussion</b>	The use of a personal ORCID identifier is highly recommended, to improve retrieval of records based on researcher identities

### 13.1.3 Affiliation

<b>Element name</b>	affiliation
<b>Purpose</b>	Contains the name of an organisation, institution, etc. with which the entity recorded in <i>name</i> was associated at the time that the resource was created
<b>Sub-elements</b>	-
<b>Attributes</b>	lang; authority; xsi:type (mods:stringPlusLanguagePlusAuthority); valueURI
<b>Usage</b>	M - Mandatory for persons related to the organisation responsible for entering the publication record
<b>Praxis</b>	Originators related to the organisation responsible for entering the publication record must have an affiliation element containing information about the organisation(s) that the originator was associated with at the time the resource was created. For organisations entering data the affiliation must have a valueURI with an identifier for the top level of the organisation. Organisation identifiers do not have to be used for affiliations other than the registering organisation, but are recommended.
<b>Motivation</b>	Affiliations are needed in order to make author-based analyses of organisations
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;affiliation lang="swe" authority="kb.se"     xsi:type="mods:stringPlusLanguagePlusAuthority"</pre>

	<pre>     &lt;valueURI="liu.se"&gt;       Linköpings universitet     &lt;/affiliation&gt;     &lt;affiliation lang="eng" authority="kb.se"       xsi:type="mods:stringPlusLanguagePlusAuthority"       valueURI="liu.se"&gt;       Linköping University     &lt;/affiliation&gt;   &lt;/name&gt; </pre>
<b>Version/date</b>	2.1 / 2014-02-10, updated (alt. lang) 2014-05-02 [Checked 2014-06-27]
<b>New</b>	xsi:type="mods:stringPlusLanguagePlusAuthority" and valueURI
<b>List of values</b>	Attribute values for valueURI are supplied by the National Library of Sweden (authority kb.se)
<b>Discussion</b>	<p>The xsi:type="mods:stringPlusLanguagePlusAuthority" inherits a general data type from the MODS schema and makes it possible to use the attributes authority and valueURI for the identification of an organisation.</p> <p>Organisations registering data are free to introduce identifiers for organisation units below the top level, but then the organisation in question must state itself as authority for the identifiers at the lower level, using the valueURI identifier from the level above as indicator of authority at the next lower level in a hierarchical mode:</p> <p>Example for an affiliation using three levels:</p> <pre> &lt;affiliation lang="swe" authority="kb.se"   xsi:type="stringPlusLanguagePlusAuthority" valueURI="lu.se"&gt;Lunds   universitet&lt;/affiliation&gt; &lt;affiliation lang="swe" authority="lu.se"   xsi:type="stringPlusLanguagePlusAuthority"   valueURI="000022000"&gt;Medicinska fakulteten&lt;/affiliation&gt; &lt;affiliation lang="swe" authority="000022000"   xsi:type="stringPlusLanguagePlusAuthority" valueURI="013230000"&gt;kliniska   vetenskaper, Lund&lt;/affiliation&gt; </pre> <p>When locally introduced identifiers are used, it is important that the authority at a lower level corresponds to the valueURI from the level above in a hierarchical manner like this:</p> <pre> authority="kb.se" valueURI="lu.se" -&gt; authority="lu.se" valueURI="000022000" -&gt; authority="000022000" valueURI="013230000" </pre> <p>For non-Swedish organisations, organisation and country information may be extracted if the organisation is registered with KB and the corresponding identifier is introduced as an attribute valueURI:</p> <pre> &lt;affiliation lang="eng" authority="kb.se"   xsi:type="stringPlusLanguagePlusAuthority" valueURI="ethz.ch"&gt;ETH   Zürich, Switzerland &lt;/affiliation&gt; </pre>

### 13.1.4 Affiliation, non-organisational

<b>Element name</b>	affiliation
<b>Purpose</b>	Contains the name of a non-organisational unit or entity (centre or network) that the originator is affiliated with
<b>Sub-elements</b>	-
<b>Attributes</b>	lang; authority; xsi:type (roleTermDefinition); valueURI
<b>Usage</b>	0 - optional
<b>Praxis</b>	Use for analysis of non-organisational entities after registering the identifier with the National Library of Sweden
<b>Motivation</b>	This type of affiliation is to be used for analysis of publications from research centres or networks that span several organisational units
<b>Code example</b>	<pre> &lt;name ... &gt;   &lt;affiliation xsi:type="roleTermDefinition" authority="kb.se"     valueURI="e-science.se" type="code"&gt;     collaboration   &lt;/affiliation&gt; </pre>

	</name>
<b>Version/date</b>	2.3 / 2014-04-08 [Checked 2014-06-27]
<b>New</b>	xsi:type="roleTermDefinition" and valueURI
<b>List of values</b>	Affiliation value: collaboration. Further values can be supplied by kb.se at future request. Attribute values for valueURI are supplied by the authority kb.se.
<b>Discussion</b>	This type of non-organisational affiliations are not supposed to be included among organisational affiliations when counting the fractional weight for assigning a publication to an organisation

### 13.1.5 Role

<b>Element name</b>	role
<b>Purpose</b>	Container for information about the relationship of the entity recorded in name to the resource described in the record
<b>Sub-elements</b>	roleTerm
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	Container for role term elements
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;role&gt;     &lt;roleTerm&gt; ... &lt;/roleTerm&gt;   &lt;/role&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]

#### 13.1.5.1 Role Term

<b>Element name</b>	roleTerm
<b>Purpose</b>	The role of the entity recorded in name in relation to the resource described in the record
<b>Sub-elements</b>	-
<b>Attributes</b>	type (code); authority (marcrelator)
<b>Usage</b>	M - Mandatory
<b>Praxis</b>	-
<b>Motivation</b>	To be used to mark creators of the resource in analyses based on persons
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;role&gt;     &lt;roleTerm type="code" authority="marcrelator"&gt;aut&lt;/roleTerm&gt;   &lt;/role&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]
<b>New</b>	SwePub MODS 2.5 introduced the use of an extra role <i>cre</i> is used as a marker of creators for roles not normally considered as creators.
<b>List of values</b>	All roles defined by Library of Congress' MARC relators are accepted: <a href="http://loc.gov/marc/relators/relaterm.html">http://loc.gov/marc/relators/relaterm.html</a>
<b>Discussion</b>	<p>Most commonly used in SwePub: author (aut), editor (edt), translator (trl).</p> <p>Mark names with roles not usually considered as creators with the extra role <i>cre</i> to make sure persons are included in analysis and <i>creatorCount</i>:</p> <pre>&lt;name ... &gt;   &lt;role&gt;     &lt;roleTerm type="code" authority="marcrelator"&gt;ill&lt;/roleTerm&gt;   &lt;/role&gt;   &lt;role&gt;</pre>

	<pre> &lt;roleTerm type="code" authority="marcrelator"&gt;cre&lt;/roleTerm&gt; &lt;/role&gt; &lt;/name&gt;</pre>
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### 13.2 Organisation as author

<b>Element name</b>	name (type corporate)
<b>Purpose</b>	Name and identifiers for an organisation with an originator relation to the publication
<b>Sub-elements</b>	affiliation; role
<b>Attributes</b>	type; authority; xlink:href
<b>Usage</b>	A – Mandatory when applicable
<b>Praxis</b>	Use when an organisation is the only originator of the publication
<b>Motivation</b>	Name type corporate is used if no person is given as author to the publication
<b>Code example</b>	<pre> &lt;name type="corporate"&gt;   &lt;affiliation lang="swe" authority="kb.se"     xsi:type="stringPlusLanguagePlusAuthority"     valueURI="uu.se"&gt;Uppsala universitet   &lt;/affiliation&gt;   &lt;affiliation lang="eng" authority="kb.se"     xsi:type="stringPlusLanguagePlusAuthority"     valueURI="uu.se"&gt;Uppsala University   &lt;/affiliation&gt;   &lt;role&gt;     &lt;roleTerm type="code" authority="marcrelator"&gt;aut&lt;/roleTerm&gt;   &lt;/role&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.5 / 2014-06-26 [Checked 2014-06-27]
<b>New</b>	Affiliation(s) for organisations are used in the same way as for <i>name type personal</i>

#### 13.2.1 Affiliation

<b>Element name</b>	affiliation
<b>Purpose</b>	Contains the name of an organisation, institution, etc. with which the entity recorded in <i>name</i> was associated at the time that the resource was created
<b>Sub-elements</b>	-
<b>Attributes</b>	lang; authority; xsi:type; valueURI
<b>Usage</b>	M - Mandatory for names related to the organisation responsible for entering the publication record
<b>Praxis</b>	For organisations entering data the affiliation must have a valueURI with an identifier for the top level of the organisation. Organisation identifiers do not have to be used for affiliations other than the registering organisation, but are recommended.
<b>Motivation</b>	Affiliations are needed in order to make author-based analyses of organisations.
<b>Code example</b>	<pre> &lt;name type="corporate"&gt;   &lt;affiliation lang="swe" authority="kb.se"     xsi:type="mods:stringPlusLanguagePlusAuthority"     valueURI="liu.se"&gt;Linköpings universitet   &lt;/affiliation&gt;   &lt;affiliation lang="eng" authority="kb.se"     xsi:type="mods:stringPlusLanguagePlusAuthority"     valueURI="liu.se"&gt;Linköping University   &lt;/affiliation&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.1 / 2014-02-10, updated (alt. lang.) 2014-05-02 [Checked 2014-06-27]
<b>New</b>	xsi:type="mods:stringPlusLanguagePlusAuthority" and valueURI
<b>List of values</b>	Attribute values for valueURI are supplied by the authority kb.se

<b>Discussion</b>	The xsi:type="mods:stringPlusLanguagePlusAuthority" inherits a general data type from the MODS schema and makes it possible to use the attributes authority and valueURI for the identification of an organisation
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### 13.2.2 Role

<b>Element name</b>	role
<b>Purpose</b>	Container for information about the relationship of the entity recorded in name to the resource described in the record
<b>Sub-elements</b>	roleTerm
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	Container for role term elements
<b>Code example</b>	<pre>&lt;name type="corporate"&gt;   &lt;role&gt;     &lt;roleTerm&gt;...&lt;/roleTerm&gt;   &lt;/role&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

#### 13.2.2.1 Role Term

<b>Element name</b>	roleTerm
<b>Purpose</b>	Designates the relationship of the entity recorded in name to the resource described in the record
<b>Sub-elements</b>	-
<b>Attributes</b>	type; authority
<b>Usage</b>	M – Mandatory
<b>Code example</b>	<pre>&lt;name type="corporate"&gt;   &lt;role&gt;     &lt;roleTerm type="code" authority="marcrelator"&gt;aut&lt;/roleTerm&gt;   &lt;/role&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.5 / 2014-06-26 [Checked 2014-06-27]
<b>List of values</b>	aut; edt; pbl; cre. Complete Library of Congress' list: <a href="http://www.loc.gov/marc/relators/relacode.html">http://www.loc.gov/marc/relators/relacode.html</a>

### 13.3 Organisation as originator

<b>Element name</b>	name
<b>Purpose</b>	Name and identifiers for an organisation with a relation to the publication
<b>Sub-elements</b>	namePart; role
<b>Attributes</b>	type; authority; xlink:href
<b>Usage</b>	M – Mandatory
<b>Praxis</b>	Use for backwards compatibility with SwePub search service
<b>Motivation</b>	Used for organisation information in the SwePub search service
<b>Code example</b>	<pre>&lt;name type="corporate" lang="swe" authority="uu" xlink:href="uu-xx"&gt;   &lt;namePart&gt;Uppsala universitet&lt;/namePart&gt;   &lt;namePart&gt;Humanistisk-samhällsvetenskapliga vetenskapsområdet&lt;/namePart&gt;   &lt;namePart&gt;Historisk-filosofiska fakulteten&lt;/namePart&gt;   &lt;namePart&gt;Litteraturvetenskapliga institutionen&lt;/namePart&gt;   &lt;role&gt;     &lt;roleTerm type="code" authority="marcrelator"&gt;org&lt;/roleTerm&gt;   &lt;/role&gt;</pre>

	</name>
<b>Version/date</b>	2.5 / 2014-06-26 [Checked 2014-07-03]
<b>New</b>	The role has been changed from <i>pbl</i> in SwePub MODS 2.0 to <i>org</i> in SwePub MODS 2.5
<b>Discussion</b>	In SwePub MODS 2.0 the <i>name type organisation</i> as publisher was a mandatory element. In SwePub MODS > 2.1 the use of this element is still used for backwards compatibility with the SwePub search service. The use of role <i>pbl</i> is deprecated in favour of role <i>org</i> as from SwePub MODS 2.5, but records with role <i>pbl</i> are still accepted.

### 13.3.1 Name Part

<b>Element name</b>	namePart
<b>Purpose</b>	Parts of an organisation name
<b>Sub-elements</b>	-
<b>Attributes</b>	-
<b>Usage</b>	M – Mandatory
<b>Praxis</b>	Designate the different parts of an organisation with repeated namePart elements in an hierarchical manner, with the main organisation at the top
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;namePart&gt;Hogskolan Halmstad&lt;/namePart&gt;   &lt;namePart&gt;Sektionen for Informationsvetenskap, Data- och Elektroteknik (IDE)&lt;/namePart&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-07-03]

### 13.3.2 Role

<b>Element name</b>	role
<b>Purpose</b>	Container for information about the relationship of the entity recorded in name to the resource described in the record
<b>Sub-elements</b>	roleTerm
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	Container for role term elements
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;role&gt;     &lt;roleTerm&gt;...&lt;/roleTerm&gt;   &lt;/role&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

#### 13.3.2.1 Role Term

<b>Element name</b>	roleTerm
<b>Purpose</b>	The role of the entity recorded in name in relation to the resource described in the record
<b>Sub-elements</b>	-
<b>Attributes</b>	type; authority
<b>Usage</b>	M - Mandatory
<b>Code example</b>	<pre>&lt;name ... &gt;   &lt;role&gt;     &lt;roleTerm type="code" authority="marcrelator"&gt;org&lt;/roleTerm&gt;   &lt;/role&gt; &lt;/name&gt;</pre>
<b>Version/date</b>	2.5 / 2014-06-13 [Checked 2014-06-26]

<b>New</b>	The roleTerm has been changed from <i>pbl</i> in SwePub MODS 2.0 to <i>org</i> in SwePub MODS 2.5
<b>List of values</b>	<i>org</i>
<b>Discussion</b>	In SwePub MODS 2.5 the role was changed from <i>pbl</i> to <i>org</i> , but records delivered with role <i>pbl</i> are still accepted

## 14 Creator count

<b>Element name</b>	note (type creatorCount)
<b>Purpose</b>	The total number of creators to the publication
<b>Sub-elements</b>	-
<b>Attributes</b>	type; authority
<b>Usage</b>	M – Mandatory
<b>Praxis</b>	Publication type determines what name roles that count as creators. The element must contain a number > 0 and nothing else.
<b>Motivation</b>	The total number of creators is needed for creator-based fractionalisation
<b>Code example</b>	<note type="creatorCount">5</note>
<b>Version/date</b>	2.1 / 2014-02-10 [Checked 2014-06-27]
<b>New</b>	This element is new as from SwePub MODS 2.1
<b>List of values</b>	1-
<b>Discussion</b>	<p>This element is mandatory to be delivered by the local system, even if all creators are registered with name elements in the publication record.</p> <p>If all creators are registered, <i>creatorCount</i> may be generated automatically by the local system through the following scheme of combinations of roles and publication types:</p> <ul style="list-style-type: none"> <li>• Role <i>aut</i> -&gt; creator</li> <li>• Role <i>edt</i> in combination with publication types <i>sam</i>, <i>pro</i> and <i>rap</i> -&gt; creator</li> <li>• Role <i>cre</i> -&gt; creator</li> </ul>

## 15 Contracts, projects, programmes and strategic initiatives

<b>Element name</b>	extension
<b>Purpose</b>	To make analysis of results of projects, programmes and strategic initiatives possible by linking publication output to contract numbers and other financial information
<b>Sub-elements</b>	affiliation
<b>Attributes</b>	displayLabel
<b>Usage</b>	0 - Optional
<b>Praxis</b>	Use with works that should be marked for analysis in relation to projects, contracts or strategic initiatives
<b>Motivation</b>	To make analysis of results of projects, programmes and strategic initiatives possible
<b>Code example</b>	<pre>&lt;extension displayLabel="Optimized public procurement of bustransports"&gt;     &lt;affiliation&gt;<b>project</b>&lt;/affiliation&gt; &lt;/extension&gt; &lt;extension displayLabel="optimized public procurement of bustransports"&gt;     &lt;affiliation&gt;<b>grantAgreement</b>&lt;/affiliation&gt; &lt;/extension&gt; &lt;extension displayLabel="Linnaeus Research Environments"&gt;     &lt;affiliation&gt;<b>initiative</b>&lt;/affiliation&gt; &lt;/extension&gt; &lt;extension displayLabel="Horizon 2020"&gt;     &lt;affiliation&gt;<b>programme</b>&lt;/affiliation&gt; &lt;/extension&gt;</pre>

<b>Version/date</b>	2.4 / 2014-05-02 [Checked 2014-06-27]
<b>New</b>	This element is new as from SwePub MODS 2.4
<b>Discussion</b>	<p>The element <i>extension</i> is repeatable, so any combination of contracts, projects and programmes may be entered for each publication record.</p> <p>The value of the <i>displayLabel</i> attribute is preferably the name of the project, as fetched from the authority source.</p>

### 15.1 Contract, project and programme "affiliation"

<b>Element name</b>	affiliation
<b>Purpose</b>	To make analysis of results of projects, programmes and strategic initiatives possible by linking publication output to contract numbers and other financial information
<b>Sub-elements</b>	affiliation
<b>Attributes</b>	authority; value
<b>Usage</b>	0 - Optional
<b>Praxis</b>	Use with works that should be marked for analysis in relation to projects, contracts or strategic initiatives
<b>Motivation</b>	To make analysis of results of projects, programmes and strategic initiatives possible
<b>Code example</b>	<pre>&lt;extension displayLabel="Optimized public procurement of bustransports"&gt;     &lt;affiliation xsi:type="roleTermDefinition" authority="swecris.se"         valueURI="SM11-0000" type="code"&gt;project&lt;/affiliation&gt; &lt;/extension&gt; &lt;extension displayLabel="Optimized public procurement of bustransports"&gt;     &lt;affiliation xsi:type="roleTermDefinition" authority="swecris.se"         valueURI="SM11-0044" type="code"&gt;grantAgreement&lt;/affiliation&gt; &lt;/extension&gt; &lt;extension displayLabel="Linnaeus Research Environments"&gt;     &lt;affiliation xsi:type="roleTermDefinition" authority="swecris.se"         valueURI="lre2008" type="code"&gt;initiative&lt;/affiliation&gt; &lt;/extension&gt; &lt;extension displayLabel="CARER-projekt"&gt;     &lt;affiliation xsi:type="roleTermDefinition" authority="liu.se"         valueURI="zxc456" type="code"&gt;project&lt;/affiliation&gt; &lt;/extension&gt; &lt;extension displayLabel="Horizon 2020"&gt;     &lt;affiliation xsi:type="roleTermDefinition" authority="cordis.europa.eu"         valueURI="horizon2020" type="code"&gt;programme&lt;/affiliation&gt; &lt;/extension&gt;</pre>
<b>Version/date</b>	2.4 / 2014-05-02 [Checked 2014-06-27]
<b>New</b>	This element is new as from SwePub MODS 2.4
<b>List of values</b>	grantAgreement; project; initiative; programme
<b>Discussion</b>	<p>The identifiers should be registered in the Swedish national system swecris.se before use and swecris.se is pointed out as authority for the identifiers. Any organisation wishing to make analyses on projects or initiatives not registered in swecris.se will have to state itself as authority for the identifier according to the following:</p> <pre>&lt;extension displayLabel="CARER-projekt"&gt;     &lt;affiliation xsi:type="roleTermDefinition" authority="liu.se"         valueURI="zxc456" type="code"&gt;project&lt;/affiliation&gt; &lt;/extension&gt;</pre> <p>For EU-financed projects it is recommended that the EU Community Research and Development Information Service – Cordis – is given as authority:</p> <pre>&lt;extension displayLabel="OpenAIREplus"&gt;     &lt;affiliation xsi:type="roleTermDefinition" authority="cordis.europa.eu"         valueURI="EC/FP7/283595" type="code"&gt;project&lt;/affiliation&gt; &lt;/extension&gt;</pre>

## 16 Publication date and publisher

<b>Element name</b>	originInfo
<b>Purpose</b>	Container element for information about the origin of the resource
<b>Sub-elements</b>	publisher; place; dateIssued
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Code example</b>	<pre>&lt;originInfo&gt;   &lt;dateIssued&gt; ... &lt;/dateIssued&gt;   &lt;publisher&gt; ... &lt;/publisher&gt;   &lt;place&gt;     &lt;placeTerm&gt; ... &lt;/placeTerm&gt;   &lt;/place&gt; &lt;/originInfo&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 16.1 Publication date

<b>Element name</b>	dateIssued
<b>Purpose</b>	The date or year the resource was published
<b>Sub-elements</b>	-
<b>Attributes</b>	encoding (iso8601);
<b>Usage</b>	M – Mandatory
<b>Praxis</b>	Enter publication year as first 4 digits in format according to ISO 8601 (format YYYY) or full publication date according to ISO 8601 (YYYY-MM-DD) and no other data, to ensure machine readability. If no encoding is given, ISO 8601 is assumed as default.
<b>Motivation</b>	This data is vital for time-based statistical analysis
<b>Code example</b>	<pre>&lt;originInfo&gt;   &lt;dateIssued&gt;1994&lt;/dateIssued&gt; &lt;/originInfo&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-07-01]

### 16.2 Publisher

<b>Element name</b>	publisher
<b>Purpose</b>	The name of the organisation that is responsible for the dissemination of the resource
<b>Sub-elements</b>	-
<b>Attributes</b>	-
<b>Usage</b>	A – Mandatory if applicable
<b>Praxis</b>	Use whenever publisher information for the resource is available
<b>Motivation</b>	Used in publication channel analysis for the Fokus funding allocation system
<b>Code example</b>	<pre>&lt;originInfo&gt;   &lt;publisher&gt;Cambridge University Press&lt;/publisher&gt; &lt;/originInfo&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 16.3 Place

<b>Element name</b>	place (with sub-element placeTerm)
<b>Purpose</b>	The geographic location of the publisher
<b>Sub-elements</b>	placeTerm

<b>Attributes</b>	-
<b>Usage</b>	0 - Optional
<b>Code example</b>	<pre>&lt;originInfo&gt;   &lt;place&gt;     &lt;placeTerm&gt;Cambridge&lt;/placeTerm&gt;   &lt;/place&gt; &lt;/originInfo&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

## 17 Source

<b>Element name</b>	relatedItem
<b>Purpose</b>	Container for information about serial or monographic work of which the described work is a part
<b>Sub-elements</b>	titleInfo; identifier; part
<b>Attributes</b>	type (host; series)
<b>Usage</b>	A – Mandatory when the resource is published as a part of another work
<b>Praxis</b>	Supply the title and ISBN/ISSN for the host publication, and volume, issue and pages where applicable
<b>Motivation</b>	Information about source publication is important for channels analysis as part of the resource allocation model Fokus.
<b>Code example</b>	<pre>&lt;relatedItem ...&gt;   &lt;titleInfo&gt;     &lt;title&gt; ... &lt;/title&gt;   &lt;/titleInfo&gt;   &lt;identifier type="issn"&gt; ... &lt;/identifier&gt;   &lt;part&gt;     &lt;detail type="volume"&gt;       &lt;number&gt; ... &lt;/number&gt;     &lt;/detail&gt;     &lt;detail type="issue"&gt;       &lt;number&gt; ... &lt;/number&gt;     &lt;/detail&gt;     &lt;extent&gt;       &lt;start&gt; ... &lt;/start&gt;       &lt;end&gt; ... &lt;/end&gt;     &lt;/extent&gt;   &lt;/part&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 17.1 Journal or book as source

<b>Element name</b>	relatedItem (type host)
<b>Purpose</b>	Container for information about serial or monographic work of which the described work is a part
<b>Sub-elements</b>	titleInfo; identifier; part
<b>Attributes</b>	type (host)
<b>Usage</b>	A – Mandatory when the resource is a part of another work
<b>Praxis</b>	Supply the title and ISBN/ISSN for the host publication, and volume, issue and pages where applicable
<b>Motivation</b>	Information about source publication is important for channels analysis as part of the resource allocation model Fokus
<b>Code example</b>	<pre>&lt;relatedItem type="host"&gt;   &lt;titleInfo&gt;</pre>

	<pre> &lt;title&gt; ... &lt;/title&gt; &lt;/titleInfo&gt; &lt;identifier type="issn"&gt; ... &lt;/identifier&gt; &lt;part&gt;   &lt;detail type="volume"&gt;     &lt;number&gt; ... &lt;/number&gt;   &lt;/detail&gt;   &lt;detail type="issue"&gt;     &lt;number&gt; ... &lt;/number&gt;   &lt;/detail&gt;   &lt;extent&gt;     &lt;start&gt; ... &lt;/start&gt;     &lt;end&gt; ... &lt;/end&gt;   &lt;/extent&gt; &lt;/part&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-07-03]

## 17.2 Series as source

<b>Element name</b>	relatedItem (type series)
<b>Purpose</b>	Container for information about a series of publications of which the described resource is a part
<b>Sub-elements</b>	titleInfo; identifier
<b>Attributes</b>	type (series)
<b>Usage</b>	A – Mandatory when the resource is a part of a series
<b>Praxis</b>	Use when the publication is part of a series. Supply the title and ISSN for the publication series and part where applicable
<b>Code example</b>	<pre> &lt;relatedItem type="series"&gt;   &lt;titleInfo&gt;     &lt;title&gt; ... &lt;/title&gt;   &lt;/titleInfo&gt;   &lt;identifier type="issn"&gt; ... &lt;/identifier&gt;   &lt;identifier type="issue number"&gt; ... &lt;/identifier&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-07-03]

## 17.3 Source title

<b>Element name</b>	titleInfo (and sub-element title)
<b>Purpose</b>	Container for source title information
<b>Sub-elements</b>	title
<b>Attributes</b>	-
<b>Usage</b>	M – Mandatory if applicable
<b>Praxis</b>	Use full titles of journals and source publications
<b>Code example</b>	<pre> &lt;relatedItem ... &gt;   &lt;titleInfo&gt;     &lt;title&gt;Journal of Applied Ecology&lt;/title&gt;   &lt;/titleInfo&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

## 17.4 Source identifiers

<b>Element name</b>	identifier
<b>Purpose</b>	Use to identify the source publication and match it uniquely against lists of publication channels.

<b>Sub-elements</b>	-
<b>Attributes</b>	type
<b>Usage</b>	M – Mandatory if applicable
<b>Praxis</b>	Register only one ISSN number per element. Use repeated elements if there are several ISSN's for different versions of the publication.
<b>Motivation</b>	This is an important element for the matching of publication channels in the funding allocation system Fokus.
<b>Code example</b>	<pre>&lt;relatedItem ... &gt;   &lt;identifier type="issn"&gt;1057-9478&lt;/identifier&gt;   &lt;identifier type="issn"&gt;1057-9445&lt;/identifier&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]
<b>Discussion</b>	<i>identifier type issn</i> can be repeated for different ISSN's for printed and electronic edition of source publication

## 17.5 Source volume, issue and pages

<b>Element name</b>	part
<b>Purpose</b>	Container for information about volume, issue and pages in the source publication
<b>Sub-elements</b>	detail; extent
<b>Attributes</b>	-
<b>Usage</b>	M – Mandatory if applicable
<b>Code example</b>	<pre>&lt;relatedItem type="host"&gt;   &lt;part&gt;     &lt;detail type="volume"&gt;       &lt;number&gt;31&lt;/number&gt;     &lt;/detail&gt;     &lt;detail type="issue"&gt;       &lt;number&gt;3&lt;/number&gt;     &lt;/detail&gt;     &lt;extent&gt;       &lt;start&gt;11&lt;/start&gt;       &lt;end&gt;23&lt;/end&gt;     &lt;/extent&gt;   &lt;/part&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 17.5.1 Source volume and issue

<b>Element name</b>	detail
<b>Purpose</b>	Container for information about volume, issue and pages in the source publication.
<b>Sub-elements</b>	-
<b>Attributes</b>	type (volume; issue; citation)
<b>Usage</b>	M – Mandatory if applicable
<b>Praxis</b>	-
<b>Motivation</b>	-
<b>Code example</b>	<pre>&lt;relatedItem type="host"&gt;   &lt;part&gt;     &lt;detail type="volume"&gt;       &lt;number&gt;31&lt;/number&gt;     &lt;/detail&gt;     &lt;detail type="issue"&gt;       &lt;number&gt;3&lt;/number&gt;     &lt;/detail&gt;</pre>

	<pre> &lt;/detail&gt; &lt;detail type="citation"&gt;   &lt;caption&gt;Vol. 31, no. 3, p. 30-38&lt;/caption&gt; &lt;/detail&gt; &lt;/part&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]
<b>Discussion</b>	The <i>detail type citation</i> with caption is to be used as an alternative to <i>detail type volume/issue</i> and <i>extent</i> when splitting over several elements is impractical.

### 17.5.2 Source start and end page

<b>Element name</b>	extent (with sub-elements start and end)
<b>Purpose</b>	Container for start and end pages in the source publication
<b>Sub-elements</b>	start; end
<b>Attributes</b>	-
<b>Usage</b>	M – Mandatory if applicable
<b>Praxis</b>	-
<b>Motivation</b>	-
<b>Code example</b>	<pre> &lt;relatedItem type="host"&gt;   &lt;part&gt;     &lt;extent&gt;       &lt;start&gt;11&lt;/start&gt;       &lt;end&gt;23&lt;/end&gt;     &lt;/extent&gt;   &lt;/part&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Updated 2014-10-24]
<b>Discussion</b>	The <i>detail type citation</i> with caption is to be used as an alternative to <i>detail type volume/issue</i> and <i>extent</i> when splitting over several elements is impractical.

### 17.5.3 Source part

<b>Element name</b>	identifier (type issue number)
<b>Purpose</b>	Container for information about a series of publications of which the described resource is a part
<b>Sub-elements</b>	-
<b>Attributes</b>	type (issue number)
<b>Usage</b>	M – Mandatory when the resource is a part of a series
<b>Praxis</b>	Use when the publication is part of a series
<b>Code example</b>	<pre> &lt;relatedItem type="series"&gt;   &lt;identifier type="issue number"&gt;1008&lt;/identifier&gt; &lt;/relatedItem&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-07-03]

## 18 Location and accessibility

<b>Element name</b>	location
<b>Purpose</b>	Container for location elements and information about the accessibility of the publication
<b>Sub-elements</b>	url
<b>Attributes</b>	-
<b>Usage</b>	A - Mandatory if applicable

<b>Praxis</b>	Use at container for URL's to the publication full text and information about the accessibility of the publication
<b>Motivation</b>	Accessibility information will be used for statistics regarding open access publishing
<b>Code example</b>	<location> <url> ... </url> </location>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

## 18.1 URL

<b>Element name</b>	url
<b>Purpose</b>	URL's to the publication full text and information about the accessibility of the publication
<b>Sub-elements</b>	-
<b>Attributes</b>	usage; note; displayLabel
<b>Usage</b>	A - Mandatory if applicable
<b>Praxis</b>	URL's with the attribute <i>usage="primary"</i> should be an auto-generated link to the full text located in the local repository and must not be possible to enter manually. Manually entered URL's must not have the attribute <i>usage="primary"</i> .
<b>Motivation</b>	Information to be used for statistics on open access to publications
<b>Code example</b>	<location> <url note="free/2015-01-01" usage="primary" displayLabel="FULLTEXT">http://hh.diva- portal.org/smash/get/diva2:239322/FULLTEXT01</url> </location>
<b>Version/date</b>	2.4 / 2014-05-05 [Checked 2014-06-27]
<b>New</b>	Embargo dates in notes and <i>usage="primary"</i> is new as from SwePub MODS 2.4
<b>Discussion</b>	<p>If a publication full text is free to access, this is to be indicated in the location <i>url</i> with the attribute <i>note="free"</i>.</p> <p>If the publication full text has an embargo, the date for the end of the embargo period should be entered as part of the note: <i>note="free/2015-01-01"</i>.</p> <p>If the information about the availability of the publication full text is auto-generated from the local repository, the information is considered to be of best quality for statistics and should therefore be indicated with the attribute <i>usage="primary"</i>.</p> <p>The attribute <i>displayLabel="FULLTEXT"</i> is used by the SwePub search service and has to be maintained for backwards compatibility.</p> <p>Below is a list of examples of publication with varying accessibility:</p> <p>Immediately free access in the local repository:</p> <pre>&lt;location&gt;   &lt;url note="free" usage="primary" displayLabel="FULLTEXT"&gt;http://hh.diva-     portal.org/smash/get/diva2:239322/FULLTEXT01&lt;/url&gt; &lt;/location&gt;</pre> <p>Embargoed access in the local repository:</p> <pre>&lt;location&gt;   &lt;url note="free/2015-01-01" usage="primary"     displayLabel="FULLTEXT"&gt;http://hh.diva-       portal.org/smash/get/diva2:239322/FULLTEXT01&lt;/url&gt; &lt;/location&gt;</pre> <p>Free access to the publication elsewhere than the local repository:</p> <pre>&lt;location&gt;   &lt;url note="free"     displayLabel="FULLTEXT"&gt;http://www.ncbi.nlm.nih.gov/pmc/articles/PMC27467     82/&lt;/url&gt; &lt;/location&gt;</pre> <p>Embargoed access elsewhere than the local repository:</p>

	<pre>&lt;location&gt;   &lt;url note="free/2015-01-01"     displayLabel="FULLTEXT"&gt;http://arxiv.org/abs/1310.2314&lt;/url&gt; &lt;/location&gt;</pre> <p>Publications with limited or unknown access conditions for the full text:</p> <pre>&lt;location&gt;   &lt;url displayLabel="FULLTEXT"&gt;     http://www.nature.com/ncomms/2014/full/ncomms4557.html   &lt;/url&gt; &lt;/location&gt;</pre>
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## 19 Physical description

<b>Element name</b>	physicalDescription
<b>Purpose</b>	Container for the physical description of the resource
<b>Sub-elements</b>	form; extent
<b>Attributes</b>	displayLabel
<b>Usage</b>	A – Mandatory if the item is published in a local repository
<b>Code example</b>	<pre>&lt;physicalDescription&gt;   &lt;form&gt; ... &lt;/form&gt;   &lt;extent&gt; ... &lt;/extent&gt; &lt;/physicalDescription&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

### 19.1 Physical form

<b>Element name</b>	form
<b>Purpose</b>	The physical form of the record item
<b>Sub-elements</b>	-
<b>Attributes</b>	authority (marcform)
<b>Usage</b>	A – Mandatory if the item is published digitally in a local repository
<b>Code example</b>	<pre>&lt;physicalDescription&gt;   &lt;form authority="marcform"&gt;electronic&lt;/form&gt; &lt;/physicalDescription&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-07-03]
<b>List of values</b>	print; electronic

### 19.2 Physical extent

<b>Element name</b>	extent
<b>Purpose</b>	The physical extent of the resource
<b>Sub-elements</b>	-
<b>Attributes</b>	-
<b>Usage</b>	0 – Optional
<b>Code example</b>	<pre>&lt;physicalDescription&gt;   &lt;extent&gt;1 bordsduk : blå- och vitrutig ; 90 x 90 cm&lt;/extent&gt; &lt;/physicalDescription&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

## 20 Resource type

<b>Element name</b>	typeOfResource
<b>Purpose</b>	Use to describe the media type of the resource
<b>Sub-elements</b>	-

<b>Attributes</b>	collection; manuscript
<b>Usage</b>	A – Optional for media types other than text
<b>Praxis</b>	Use for resources with media types other than text
<b>Motivation</b>	To be used for analyses of output from artistic research
<b>Code example</b>	<typeOfResource>still image</typeOfResource>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]
<b>List of values</b>	text; cartographic; notated music; sound recording; sound recording-musical; sound recording-nomusical; still image; moving image; three dimensional object; software, multimedia; mixed material <a href="http://www.loc.gov/standards/mods/mods-outline-3-5.html#typeOfResource">http://www.loc.gov/standards/mods/mods-outline-3-5.html#typeOfResource</a>

## 21 Notes

<b>Element name</b>	note
<b>Purpose</b>	Use for extra information about the resource
<b>Sub-elements</b>	-
<b>Attributes</b>	lang; xmlns:xlink
<b>Usage</b>	O - Optional
<b>Code example</b>	<note xmlns:xlink="http://www.w3.org/1999/xlink"> Parallel text in Russian and English </note>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-27]

## 22 Appendices

### 22.1 OAI-PMH request and elements outside of MODS metadata container

The OAI-PMH XML code is not part of the actual SwePub MODS, but is a record container that is mandatory for record exchange through OAI-PMH and therefore listed here for completeness. The *OAI-PMH* request element contains the *ListRecords* sub-element that contains the full list of records with headers and MODS metadata.

<b>Element name</b>	OAI-PMH
<b>Purpose</b>	The OAI-PMH protocol request header and wrapper for the full record set
<b>Sub-elements</b>	responseDate, request, ListRecords
<b>Attributes</b>	xmlns, xmlns:xsi, xsi:schemaLocation
<b>Usage</b>	M - Required for an OAI-PMH request
<b>Motivation</b>	Used to wrap a set of SwePub metadata records resulting from an OAI-PMH request
<b>Code example</b>	<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd"> <responseDate>...</responseDate> <request verb="ListRecords" metadataPrefix="swepub_mods" set="xx"> ... </request> <ListRecords> ... </ListRecords> </OAI-PMH>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]

#### 22.1.1 Response Date

<b>Element name</b>	responseDate
---------------------	--------------

<b>Purpose</b>	Date of the transmission of data
<b>Sub-elements</b>	-
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	For statistics and house-keeping
<b>Code example</b>	<OAI-PMH> <responseDate>2014-02-05T13:08:39Z</responseDate>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]

### 22.1.2 Request

<b>Element name</b>	request
<b>Purpose</b>	Information on the purpose of the request
<b>Sub-elements</b>	-
<b>Attributes</b>	verb, metadataPrefix, set
<b>Usage</b>	M - Mandatory
<b>Code example</b>	<OAI-PMH> <request verb="ListRecords" metadataPrefix="swepub_mods" set="xx">http://api.libris.kb.se/swepub/oaipmh </request>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]

### 22.1.3 List of Records

<b>Element name</b>	ListRecords
<b>Purpose</b>	XML container for SwePub metadata records
<b>Sub-elements</b>	record
<b>Attributes</b>	metadataPrefix
<b>Usage</b>	M - Mandatory
<b>Code example</b>	<OAI-PMH> <ListRecords> <record> ... </record> <record> ... </record> </ListRecords> </OAI-PMH>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]

#### 22.1.3.1 Metadata Record

<b>Element name</b>	record
<b>Purpose</b>	The XML container for the publication metadata record
<b>Sub-elements</b>	header, metadata
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	Container for parts of SwePub metadata record
<b>Code example</b>	<OAI-PMH> <ListRecords> <record> <header> ... </header> <metadata> ... </metadata> </record> </ListRecords>

	</record> </ListRecords> </OAI-PMH>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]

#### 22.1.3.2 Record Header

<b>Element name</b>	header
<b>Purpose</b>	Header for record metadata outside of MODS metadata
<b>Sub-elements</b>	identifier; datestamp; setSpec
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	Used to identify record and last modification data for incremental updates
<b>Code example</b>	<pre>&lt;OAI-PMH&gt;   &lt;ListRecords&gt;     &lt;record&gt;       &lt;header&gt;         &lt;identifier&gt;oai:services.scigloo.org:161722&lt;/identifier&gt;         &lt;datestamp&gt;2014-05-08T19:16:30Z&lt;/datestamp&gt;         &lt;setSpec&gt;SCIGLOO_SWEPUB&lt;/setSpec&gt;       &lt;/header&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]
<b>Discussion</b>	Sub-elements identifier, datestamp and setSpec are not documented separately; only by example above to save space

#### 22.1.3.3 Metadata

<b>Element name</b>	metadata
<b>Purpose</b>	XML container for MODS metadata
<b>Sub-elements</b>	mods
<b>Attributes</b>	-
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	A single manifestation of the metadata from an item
<b>Code example</b>	<pre>&lt;OAI-PMH&gt;   &lt;ListRecords&gt;     &lt;record&gt;       &lt;metadata&gt;         ...       &lt;/metadata&gt;</pre>
<b>Version/date</b>	2.0 / 2012-10-10 [Checked 2014-06-26]

#### 22.1.3.4 MODS root element

<b>Element name</b>	mods
<b>Purpose</b>	The MODS metadata wrapper
<b>Sub-elements</b>	All applicable MODS top-level elements and sub-elements
<b>Attributes</b>	xmlns, xmlns:xsi, xsi:schemaLocation
<b>Usage</b>	M - Mandatory
<b>Motivation</b>	Metadata wrapper with attributes specifying Library of Congress MODS metadata format and version as basis for SwePub MODS
<b>Code example</b>	<pre>&lt;OAI-PMH&gt;   &lt;ListRecords&gt;     &lt;record&gt;       &lt;metadata&gt;         &lt;mods xmlns="http://www.loc.gov/mods/v3" version="3.5"</pre>

	<pre> &lt; xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"   xsi:schemaLocation="http://www.loc.gov/mods/v3   http://www.loc.gov/standards/mods/v3/mods-3-5.xsd"&gt;   ... &lt;/mods&gt;</pre>
<b>Version/date</b>	2.1 / 2014-02-05 [Checked 2014-06-27]
<b>New</b>	MODS version 3.5 <sup>7</sup>
<b>Discussion</b>	MODS version > 3.5 is needed for attributes <i>stringPlusLanguagePlusAuthority</i> introduced in name and ID elements introduced in SwePub MODS > 2.0

## 22.2 SwePub MODS 2.5 XML record example

```

<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/  http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd">
<responseDate>2014-06-26T0:47:22Z</responseDate>
<request verb="GetRecord" metadataPrefix="swepub_mods" identifier="oai:services.scigloo.org:161722">
  http://api.libris.kb.se/swepub/oaipmh
</request>
<GetRecord>
  <record>
    <header>
      <identifier>oai:services.scigloo.org:161722</identifier>
      <datestamp>2014-05-08T19:16:30Z</datestamp>
      <setSpec>SCIGLOO_SWEPUB</setSpec>
      <setSpec>swepub_free</setSpec>
    </header>
    <metadata>
<mods xmlns="http://www.loc.gov/mods/v3" version="3.5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-5.xsd">
<recordInfo xmlns:xlink="http://www.w3.org/1999/xlink">
  <recordContentSource>cth</recordContentSource>
</recordInfo>
<titleInfo>
  <title>Modelling of the GIA-induced surface gravity change over Fennoscandia</title>
  <subTitle>a field study</subTitle>
</titleInfo>
<genre xmlns:xlink="http://www.w3.org/1999/xlink" authority="svep" type="publicationType">art</genre>
<genre authority="kb.se" type="outputType">ArtisticPerformance</genre>
<genre xmlns:xlink="http://www.w3.org/1999/xlink" authority="svep" type="contentType">ref</genre>
<note type="publicationStatus">Published</note>
<originInfo xmlns:xlink="http://www.w3.org/1999/xlink">
  <dateIssued>2012</dateIssued>
</originInfo>
<subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="swe" authority="hsv" xlink:href="10505">
  <topic>Naturvetenskap</topic>
  <topic>Geovetenskap och miljövetenskap</topic>
  <topic>Geofysik</topic>
</subject>
<subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng" authority="hsv" xlink:href="10505">
  <topic>Natural sciences</topic>
  <topic>Earth and Related Environmental Sciences</topic>
  <topic>Geophysics</topic>
</subject>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="personal" authority="chalmers.se" xlink:href="perandoe">
  <namePart type="given">Per-Anders</namePart>
  <namePart type="family">Olsson</namePart>
  <namePart type="date">1971</namePart>
  <role>
    <roleTerm type="code" authority="marcrelator">aut</roleTerm>
  </role>
  <description xsi:type="identifierDefinition" type="orcid">0000-0002-3363-2368</description>
  <affiliation lang="swe" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="chalmers.se">
    Chalmers tekniska högskola
  </affiliation>
  <affiliation lang="swe" authority="chalmers.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="chalmers.se/1702">
    Institutionen för rymd- och geovetenskap, Rymdgeodesi och geodynamik
  </affiliation>
  <affiliation lang="eng" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="chalmers.se">
    Chalmers University of Technology
  </affiliation>
  <affiliation lang="eng" authority="chalmers.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="chalmers.se/1702">
    Department of Earth and Space Sciences, Space Geodesy and Geodynamics
  </affiliation>
</name>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="personal" authority="chalmers.se" xlink:href="131499">
  <namePart type="given">Jonas</namePart>
  <namePart type="family">Agren</namePart>
  <role>
    <roleTerm type="code" authority="marcrelator">aut</roleTerm>
  </role>
```

<sup>7</sup> <http://www.loc.gov/standards/mods/v3/mods-3-5.xsd>

```

</name>
<note xmlns:xlink="http://www.w3.org/1999/xlink" type="creatorCount">2</note>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="corporate" lang="swe" authority="chalmers.se"
      xlink:href="1702">
    <namePart>Chalmers tekniska högskola</namePart>
    <namePart>Institutionen för rymd- och geovetenskap, Rymdgeodesi och geodynamik</namePart>
    <role>
      <roleTerm type="code" authority="marcrelator">org</roleTerm>
    </role>
</name>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="corporate" lang="eng" authority="chalmers.se"
      xlink:href="1702">
    <namePart>Chalmers University of Technology</namePart>
    <namePart>Department of Earth and Space Sciences, Space Geodesy and Geodynamics</namePart>
    <role>
      <roleTerm type="code" authority="marcrelator">org</roleTerm>
    </role>
</name>
<relatedItem xmlns:xlink="http://www.w3.org/1999/xlink" type="host">
  <titleInfo>
    <title>Journal of Geodynamics</title>
  </titleInfo>
  <identifier type="issn">0264-3707</identifier>
  <part>
    <detail type="volume">
      <number>31</number>
    </detail>
    <detail type="issue">
      <number>3</number>
    </detail>
    <extent>
      <start>12</start>
      <end>22</end>
    </extent>
  </part>
</relatedItem>
<identifier xmlns:xlink="http://www.w3.org/1999/xlink" type="doi">10.1016/j.jog.2012.06.011</identifier>
<identifier xmlns:xlink="http://www.w3.org/1999/xlink" type="isi">000310108100002</identifier>
<location xmlns:xlink="http://www.w3.org/1999/xlink">
  <url>http://dx.doi.org/10.1016/j.jog.2012.06.011</url>
</location>
<typeOfResource>text</typeOfResource>
<physicalDescription xmlns:xlink="http://www.w3.org/1999/xlink">
  <form authority="marcform">electronic</form>
</physicalDescription>
<location xmlns:xlink="http://www.w3.org/1999/xlink">
  <url note="free" displayLabel="Fulltext, fritt tillgänglig">
    http://publications.lib.chalmers.se/records/fulltext/161722/local_161722.pdf
  </url>
</location>
<language xmlns:xlink="http://www.w3.org/1999/xlink">
  <languageTerm type="code" authority="iso639-2b">eng</languageTerm>
</language>
<abstract>
  This paper deals with the modelling of surface gravity change in Fennoscandia, induced by postglacial rebound ...
</abstract>
</mods>
  </metadata>
</record>
</GetRecord>
</OAI-PMH>

```