Datum



Creating information packages in Project Digidaily Specification documents

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Tables: Metadata and attributes in METS, MODS, PREMIS, MIX; ALTO elements and attributes; Glossary

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Packaging METS: Metadata for digitized newspapers in Projekt DigiDaily

Manual KB - MKC Riksarkivet

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Introduction

This document provides a comprehensive and general description of how the digital files in the project Digidaily Journal digitization are packaged and described using METS with several standards.

Submission Information Package (SIP)

The result of digitization is packaged in several "delivery packages" Submission Information Package (SIP). Each SIP will correspond to a Newspaper number. Each SIP will contain all the files that make up a digital image of a Newspaper number.

A Newspaper number is defined as an edition of a newspaper as it was released a specific day. Example: Stockholm edition of Aftonbladet, January 12, 1896

Each SIP is created according to the specifications for newspaper digitization project Digidaily that has been developed in cooperation between the Media Conversion Center (MKC), the National Library ((KB) (Kungliga biblioteket in Swedish)) and the National Archives ((RA) (Riksarkivet in Swedish)). The specifications are based on KB's basic profile for METS, which in turn is based on SWEIPB - a basic profile developed by the National Archives and others archives and KB together.

The metadata standards used in the packaging are: METS, PREMIS, MODS, MIX and ALTO. More standards may be appropriate.

Datamodel

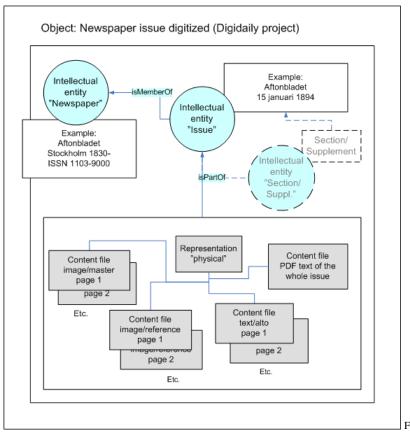


Figure 1

Figure 1 shows a number of a digitized printed newspaper, illustrated based on PREMIS data model which is composed of five entities: "Intellectual", "Object", "Event", "Agent" and "Rights".

The illustration exemplifies the relationship between the "Intellectual entites" (intellectual entity) and "Objects" (object).

An intellectual entity defined in PREMIS as a collection of content that can be treated and described as an intellectual entity. In this case, we have several entities that can be described as their own intellectual entities - First and foremost, the Newspaper number Aftonbladet 1894-01-15 (the magazine that it was released on that date), which is in turn a number of many in Aftonbladet (1830 -). A Newspaper number can be divided into several subordinate units - Section, Supplement, Article, Image, etc. all constitute intellectual entities. (The latter two categories, article and image, but will not be addressed in this project).

Metadata about these intellectual entities, called bibliographic (descriptive) metadata are recorded in the METS document into one or more <dmdSec>.

The Newspaper number is represented by a set of image files (a type of object). Each page of the Newspaper number is mapped separately and saved in different formats for different purposes, such as master files for long term storage, ALTO tagged files for further text processing, etc. In addition, the entire Newspaper numbers content is saved in a PDF file.

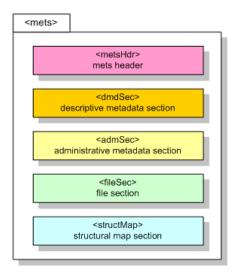
Administrative (structural) metadata in METS <amdSec> and <structMap> keeps track of which the files are, their properties and relations.

A "representation" in PREMIS is another type of object. A representation is the collection of files and administrative metadata required for a complete and understandable representation of an intellectual entity.

METS

METS stands for Metadata Encoding and Transmission Standard and is used to encode and pack up the metadata (and data) to digital objects. METS is a flexible standard; the encoding is done in XML and may also include other metadata standards.

For each resource that is packaged in a package at least one METS document (an xml file with the METS-codes) is written. A METS document can be divided into up to seven sections, but in this project, only the following five sections will be used:



Element and attribute in METS

<mets>

A METS document is created for each Newspaper number. A Newspaper number is defined by the specific date when a newspaper title was published. A Newspaper number can be divided into sections, which can have attachments and headlines, etc.

- For information about "xmlns" and "xsi:schemaLocation" Se also <u>Attachements</u>. Metadataelement och attribute i METS...
- Should contain the attributes OBJID, PROFILE, TYPE and LABEL.
- Objid is the same as the packet identifier and must be unique in its context, ie. in MKC and in contact between MKC and KB.
- In PROFILE is the profile named that the METS-file follows:

 http://www.kb.se/namespace/mets/kbse_mets_profile_001.xml

 LABEL should contain the newspapers title (title) and date / number (date / number) from dmdSec / @ LABEL = Primary / ... / mods: title info / mods: title. Example: Aftonbladet 1851-12-04

<metsHdr>

Contains information on the METS document itself.
Should include: CREATE DATE attribute and elements metsDocumentID and agent.

- CREATEDATE should include date and time when the METS-document was created.
- RECORDSTATUS write here, where appropriate, any of the values REPLACEMENT or SUPPLEMENT if the package will either replace or supplement a previously delivered packet.
- <metsDocumentID> contains the name of the METS-file. Se also Attachements: File naming convention.
- Elementet <agent> repeated for the institutions who create and receive at METS document:

```
<agent ROLE="creator" TYPE="organization">
<name>Riksarkivet/MKC</name>
</agent>
<agent ROLE="archivist" TYPE="organization">
<name>Kungliga biblioteket</name>
</agent>
```

Descriptive Metadata Section <dmdSec>

The element is a container for descriptive metadata about the intellectual entity associated with the items that are included in the package. In this case, the metadata about the magazine and the number depicted. Descriptive metadata will be drawn from several sources: LIBRIS database, Signe, and the digitization process. Details on which metadata to be in here, see the section on MODS.

- There should always be one dmdSec with metadata in MODS for the Newspaper number. This dmdSec should contain the element mdWrap with attribute LABEL = "Primary" according to the dictionary vcDmdSec_LABEL_kbse.
- There should always be one dmdSec with metadata in MODS for supplier and publisher. This dmdSec should contain the element mdWrap with attribute LABEL = "Local", according to the dictionary vcDmdSec_LABEL_kbse.
- If the accompanying appendices or sections of the Newspaper number are to be described in MODS, these should have their own dmdSec.
- Each dmdSec is numbered sequentially from dmdSec001, dmdSec002, etc. These numbers are recorded as values in the attribute ID. These IDs are used as references in the METS file, eg from <structMap >.
- Metadata in XML is encapsulated in element <xmlData> under <mdWrap >.
- The attribute MDTYPE i <mdWrap> with the value "MODS" is mandatory for all dmdSec.

Administrative Metadata Section <amdSec>

The element make up a container for administrative metadata about objects (File or representation) and the events, agents and rights associated with the objects. With administrative metadata means technical metadata from image capture, structural metadata that describes relationships between data files, what happened to the files in the work process, restrictions when using, etc.

- Each METS-document include one, and only one, <amdSec>.
- The attribute ID is mandatory with the value "amdSec001".

Contains several elements <techMD>.

Technical Metadata <techMD>

The element is a container for the technical metadata about the files included in the package. Metadata is retrieved from processes with image capture, the OCR reading, ALTO-tagging etc. The metadata Standard is PREMIS with the addition of MIX. Details on which metadata can be found under subsections PREMIS and MIX.

- <techMD> repeated for each objecty (datafile).
- One <techMD> is also created for the representation.
- In The attribute ID the elements are numbered according to the pattern techMD001, techMD002, etc. These ID are used as references from <fileSec> and <structMap>.
- Metadata in xml is encapsulated in the element <xmlData> under <mdWrap>.
- The attribute MDTYPE i <mdWrap> with the value "PREMIS:OBJECT" is mandatory in all techMD.

File Section <fileSec>

In the file-section (fileSec) all the files in the package are listed, with file names and details of the size, checksum, etc.

A degree of duplication of information is thus here because some information is also present as PREMIS metadata in <techMD>.

Here also referred to metadata in <techMD>.

- METS-documentet should contain one, and only one, <fileSec>-element.
- The attribute ID with the value fileSec001 is mandatory.
- Should contain at least one <fileGrp>-element, one for each filetype that is included in the package. These are numbered according to pattern fileGrp001, fileGrp002, etc.

Each <fileGrp> should contain The attribute USE who is naming the group according to glossary"vcUSE_kbse". Se <u>Attachements</u> Metadataelement och attribute i METS... (tabell). Example: Value "image/master" indicates that the element contains references to image files for archiving.

- The element <file>, which is subordinated to <fileGrp>, is repeated for each file included in this package. A number of attributes are here Mandatory:
 - o ID Contains a numeric Value, running from 1, preceded by the prefix "file". Example "file1", "file2", "file3", etc.
 - o USE repeat the Value specified in the related <fileGrp>.
 - MIMETYPE enter Value according to http://www.iana.org/assignments/media-types/...
 - SIZE enter same Value as in premis <size> in corresponding mets <techMD>.
 - CREATED specify when the file was created. Repeat timing for example from mix <dateTimeCreated>. written as YYYY-MM-DD'T'HH:mm:ss+01:00.
 - o ADMID enter ID-Value for the <techMD> who Contains metadata about the file, eg. "techMD002"
 - CHECKSUM enter same Value as in premis <messageDigest> in corresponding mets <techMD>. If several checksums appear in premis, enter the last.
 - CHECKSUMTYPE enter Value "MD5", ie. same Value as in premis <messageDigestAlgorithm> in corresponding mets <techMD>.

- Under <file> the element <Flocat> is included with a reference to the name of the file. Mandatory attributes are:
 - o LOCTYPE always with the value "URL"
 - o xlink:type always with the value "simple"
 - o xlink:href specify the file name preceded by the prefix "file:", eg "file:bib4112678_18760203_1_24_8_m.jp2". Se also <u>Attachements</u>: File name convention.

Structure Map <structMap>

A "structural map" describes how the data files are related to each other so that a system can reconstruct and provide the digital objects.

- The METS-document should contain a <structMap> which describes the "physical" structure.
- The attribute ID with the value "structMap001" is mandatory.
- The attribute TYPE should be "physical" (value from vcStructMap_TYPE_kbse).
- <structMap> are divided into a number of <div> which in turn can be divided into one or more <div>. This process creates a hierarchical structure that shows how the data files are related to each other.
- Mandatory attributes in <div> are:
 - o ID ongoing values according to the pattern div001, div002, etc.
 - o TYPE Each div should be named in TYPE with a value from the dictionary vcDiv_TYPE_kbse. See examples and suggestions on the structure below:
 - LABEL Can be used for example when a page, or an entire Newspaper number, is missing and has been replaced by a "placeholder" with explanatory text. Values from vcDiv LABEL kbse.
 - ORDER the order in which the file will be displayed in. Values: 1, 2, 3, etc.
 - o ORDERLABEL Optional. Text fields for the page numbering as it appears in the resource.
 - DMDID enter the ID value for the <dmdSec> that contain bibliographic metadata about the things the div element refers to. Example: <div TYPE="issue"> enter the ID of the dmdSec with LABEL = "Primary". For div TYPE = "supplement" enter the ID of the dmdSec that describes the Supplement, etc.
 - A <fptr> under <div> is repeated for each data file. In The attribute FILEID the same value as in the corresponding file @ ID. Example "file1", "file2", "file3", etc.

The structure folder is divided like this with the help of <div> and The attribute TYPE:

1. Digitized pages + one pdf + file with "performance data":

```
<structMap>
  <div TYPE="files"> Acts as a "wrapper" around the others
         <div TYPE="issue"> Highest level for the Newspaper number
                <div TYPE="page" ORDER="1"> Here are the references listed for the files on page 1
                       <fptr FILEID="">Reference to jpg-fil for page 1
                       <fptr FILEID="">Reference to alto-fil for page 1
                </div>
                <div TYPE="page" ORDER="2"> Here are the references listed for the files on page 2
                       <fptr FILEID=""> Reference to jpg-fil for page 2
                       <fptr FILEID=""> Reference to alto-fil for page 2
                </div>
                <div TYPE="pdf">pdf-filen is on the same level as "page"
                       <fptr FILEID=""
                </div>
         </div>
         <div TYPE="performance">On the same level as "issue"
                <fptr FILEID="">
         </div>
  </div>
</structMap>
```

2. Digitized pages divided in sections + attchement + headlines etc.

```
<structMap>
  <div TYPE="files">
         <div TYPE="issue"> Highest level for the Newspaper number
                <div TYPE="section">divided into sections, repeat if more.
                       <div TYPE="page" ORDER="1"> Here are the references listed to the files for
                       page 1
                              <fptr FILEID=""> Reference to jpg-fil for page 1
                             <fptr FILEID=""> Reference to alto-fil for page 1
                       </div>
                       <div TYPE="page" ORDER="2"> Here are the references listed to the files for
page 2
                             <fptr FILEID=""> Reference to jpg-fil for page 2
                             <fptr FILEID=""> Reference to alto-fil for page 2
                       </div>
                                    etc
                </div>
                <div TYPE="supplement">
                       <div TYPE="page" ORDER="1"> Here are the references listed to the files for
page 1
                             <fptr FILEID=""> Reference to jpg-fil for page 1
                              <fptr FILEID=""> Reference to alto-fil for page 1
                       </div>
                       <div TYPE="page" ORDER="2"> Here are the references listed to the files for
page 2
                             <fptr FILEID=""> Reference to jpg-fil for page 2
                             <fptr FILEID=""> Reference to alto-fil for page 2
                       </div>
                                    etc.
                </div>
                <div TYPE="newsbill">
                       <fptr FILEID="">
                </div>
                <div TYPE="pdf">pdf-file
                       <fptr FILEID=""
                </div>
         </div>
         <div TYPE="performance"> On the same level as"issue"
                <fptr FILEID="">
```

</div>
</div>
</structMap>

MODS

MODS (Metadata Object Description Schema) are an XML scheme for bibliographic metadata that can be used to describe many different types of objects. It is primarily in libraries you encounter MODS. It is often used as an "exchange format" to and from the directory entries in the traditional library format MARC 21, but also to create new descriptions of objects held in libraries. Responsible for the content and development of the standard is the Network Development and MARC Standards Office at the Library of Congress.

Newspaper number and "related units"

Are recorded in dmdSec/@ID="dmdSec001"/mdWrap/@LABEL="Primary"

the MODS-section always begins with metadata about the physical number but with the addition that the package contains a digital version, either of a hard copy or a microfilmed copy.

The description also includes the registration of a number of "related entities". This is done in the container <relatedItem> repeated for each type of relationship. Some <relatedItem> is Mandatory, other may apply, if necessary.

Element and attributes in MODS

<mods>

<mods> is registred under mets/dmdSec/mdWrap/@MDTYPE="MODS"/xmlData.

Metadata for the Newspaper number:

typeOfResource

• with the value "text".

genre

- with the value "issue".
- with attribute authority="marcgt" (stands for marc genre term)

titleInfo

Includes the elements:

- title
 - o with a constructed title for the Newspaper number same as in <mets@LABEL>, se <mets>

originInfo

• Contains information on when the Newspaper number was issued and whether it belongs to an "edition". The information herein is always the analog original.

Including elements:

- dateIssued Here a date are composed according to the pattern yyyy-mm-dd.
 - o with the attribute encoding="w3cdtf".

- o If dating is missing or incorrect in the original add the attribute qualifier, with the value "inferred". As the value of <dateIssued> an assumed date are written down.
- edition value according to controlled list. Se <u>Attachements</u> File naming convention for more information

physicalDescription

Includes the elements:

• digitalOrigin

Some of the following values:

- o "reformatted digital" if the digitization is made from printed original.
- o "digitized microfilm" if the digitization is made from microfilm.
- note
 - with The attribute type="reproduction".
 Value: Digital reproduktion: Stockholm: Projekt Digidaily, yyyy (the year in which the digitization was made).

with the attribute type="script".

Chose value according to list (vcScriptType_kbse).

<relatedItem> = Host publication

• with the attribute TYPE="host"

Mandatory information for all packages. By "host publication" means the newspaper that the Newspaper number is a part of. Metadata about the host publication will be taken from the LIBRIS database. This is done by KB before digitization begins.

Here you can find among others, the newspapers title, LIBRIS id, ISSN, if any, and the number and / or date of designation that along with the title identifies the number.

• Recorded within the same <dmdSec> as the Newspaper number otherwise.

Includes the elements:

titleInfo

Includes the elements:

- title
 - o with the newpapers title in plain language

genre

- with value "newspaper"
- with attribute authority="marcgt"

originInfo

includes the elements:

- dateIssued
 - o Value: a date in the form yyyy-mm-dd
 - With the attributes encoding="w3cdtf", and point="start" for the newspapers start date.
 - o dateIssued repeated if enddate exist, attribute point="end".

language

Can be repeated if the newspaper contains multiple languages which are equally "dominant" for the content. Includes element:

- languageTerm.
 - o Value: letter code according to iso639-2b, t.ex. "swe"
 - o With attributes type="code" and encoding="iso639-2b"

identifier

Specifies the URI that identifies the newspaper in LIBRIS database. If the newspaper has an ISSN number, this is indicated in a separate <Identifier>.

- with attribute type="uri" för LIBRIS-id.
- <identifier> optionally repeated with ISSN (attribute type="issn").

Part

- Specifies the Newspaper numbers numbering and / or date.
 In most cases, reference to the date is doubled and look exactly the same as in mods / @ TYPE = issue / original info / dateIssued.
 Including elements:
 - o detail
 - with the attribute type="issue" Include the element:
 - number
 Specifies the newspapers numbering if one exists, ie printed numbering or other denomination (eg Sample number) on the Newspaper number. (Note. The number of the microfilm in relatedItem / @ TYPE = 'original").
 - o date

Date for the number.

- Write date according to pattern yyyy-mm-dd, example: 1885-12-10.
- Always the attribute encoding="w3cdtf".
- If the date is missing in the original, also add The attribute qualifier, with the value "inferred". As value in <dateIssued> an assumed date is written. As the value of <dateIssued> an assumed date is written.

note

- with the attribute type="date"
 Here any remark about missing or incorrect date is written.
- with The attribute type="numbering"
 Here any remark about missing or incorrect numbering.

<relatedItem> = Project

- with the attribute type="host"
 Here any remark about missing or incorrect date is written.
- With The attribute type = "numbering" Mandatory information for all packages.

 Metadata about the project will be taken from the LIBRIS database which is done by

KB before digitization begins.

Includes the elements:

genre

• with the value "project"

identifier

Specifies the URI that identifies the project in LIBRIS database.

• with attribute type="uri" for LIBRIS-id.

titleInfo

Includes the elements:

• title, with the projects title in plain text

The code looks like this in all cases:

<relatedItem> = microfilm as original

• with attribute TYPE="original" Mandatory if applicable. Here fits information on the original (microfilm) to the digital reproduction.

Includes the elements:

identifier

- Value: the microfilms number.
- attribute type="reel number".

physicalDescription

Includes the elements:

- form
 - o with attribute authority="marcform" and Value: microfilm.

location

Includes:

- holdingSimple
 - Includes the element:
 - o copyInformation, as Includes:

- note, without attribute.
 - Here is space for notes on the original. Is under investigation by the Newspaper Unit
 - Details about damage to individual pages saved in ALTO during The attribute QUALITY_DETAIL.
- note, with attribute type="condition".

 Here is information on the originals physical condition, according to a list of coded Value. Investigation is under way by the Newspaper Unit.

<relatedItem> = printed newspaper as the original

with attribute TYPE="original"
 Mandatory if applicable. Here is information about the original (printed newspaper) to the digital reproduction.

Includes the elements:

identifier

- Value: Code that identifies which sample used as the original. Value in position 1-2 in preparation code from Signe. Example: "S-A"
- attribute type="local".

physicalDescription

Includes:

- form
 - o with attribute authority="marcform" and Value: print.

location

Includes:

- holdingSimple
 - Includes elementet:
 - o copyInformation, as Includes:
 - note, without attribute.
 - Here is space for notes about the original, for example, that it has been disposed after digitization. Can be repeated if necessary.
 - Always a note with a code that identifies the originals physical condition, and if it is a national sample (taken from Signe, such as SA-1).
 - Details about damage to individual pages saved in ALTO during The attribute QUALITY_DETAIL.
 - note, with attribute type="condition".
 Note on the originals physical condition. Here is the Value placed which forms position 4 in preparation code from Signe. Example: "1"

<relatedItem> section, appendix, or headline

with attribute type="constituent">

<relatedItem TYPE="constituent"> is registred under its own dmdSec: dmdSec/mdWrap/@MDTYPE="MODS"/xmlData.

Here information is registered about the parts that are included in the Newspaper number which needs to be described individually: sections, appendices, headlines ...

Includes the elements:

genre

Value in the element is chosen according to genre term_kbse: supplement, section, newsbill

titleInfo

Includes the elements:

- partName
 - o Name and any Part names. KB will provide MKC with more information for each newspaper.

subject

Includes the element:

- Subject
 - o Topic.

Value: select from the controlled vocabulary: "bilagetyp_kbse".

originInfo

Includes:

- dateIssued
 - Here write the date if it differs from the Newspaper number. Write according to pattern yyyy-mm-dd.
 - o with the attribute encoding="w3cdtf".
 - o If date is missing in the original, ad the attribute qualifier, with the value "inferred". As Value i <dateIssued> write an adopted date. As Value in <dateIssued> write an adopted date.

note

- with the attribute type="date"
 Here any remark about missing or incorrect date.
- Without attribute
 Eg for information about added title.

Local data on the publisher and supplier

These include name and identifier in Mimer's *provider registry* for provider and publisher of the delivered resource.

Is registred in dmdSec/@ID="dmdSec002"/mdWrap/@LABEL="Lcal"

Elements and attributes in MODS

<mods>

<mods> is registered under mets/dmdSec/mdWrap/@MDTYPE="mods"/xmlData.

Includes the elements <name> and <role> is repeated for supplier and publisher::

name

• with attributes TYPE="corporate", AUTHORITY="local" and valueURI="[KB:s id for the organisation]

Includes:

namePart

Values for namePart:

- "Kungliga biblioteket"
- "Riksarkivet/MKC"

Values for valueURI:

- "http://id.kb.se/organisations/SE2021001710"
- "http://id.kb.se/organisations/SE2021001074-MKC"

role

Includes:

• roleTerm with attributes type="text" and authority=marcrelator or local

```
.. Values:"supplier" (authority=local)"publisher" (authority=marcrelator)..
```

PREMIS

PREMIS stand for Preservation Metadata: Implementation strategies. It is a standard developed to effectively manage, find and recover digital information. PREMIS include information about the digital object's technical characteristics, provenance, activities around objects, any restrictions in the access and use, etc.

Library of Congress provides schemes in XML for PREMIS and there is also a Swedish version of which the National Archives is responsible.

The PREMIS model entities Object, Event, Agent and Rights, are represented in the scheme of metadata containers of the same name.

In the project Digidaily, MKC will work with <object> (see PREMIS: OBJECT) where each digital object's basic data is captured

PREMIS:OBJECT

Two different types of "object" is registred in the packages:

- 1. One <object> relating to the representation. The attribute xsi:file="representation"
- 2. One <object> is repeated for each data file which is included in the package. The attribute xsi:file="file"

<object> is registred under
mets/amdSec/techMD/mdWrap/@MDTYPE="PREMIS:OBJECT"/xmlData.
Is repeated for every file.

1. object xsi:file="representation"

Here are collected metadata relating to the representation, which you do not want to repeat for each data file.

- Mandatory attribute in <object> is xsi:file with the value "representation".
- Mandatory under <object> is:
 - o 1.1. objectIdentifier

1.1. objectIdentifier

Element under <object> who identifies the representation. Here are two under elements:

- objectIdentifierType Enter here the identifier type, Value: "local".
- objectIdentifierValue Enter here the same identifier as in mets/@OBJID.

1. object xsi:file="file"

Here are the metadata that relates to a file collected.

- Mandatory attribute is xsi:file with the value "file".
- Mandatory element/container under <object> is
 - o 1.1. objectIdentifier
 - o 1.5. objectCharacteristics

1.1. objectIdentifier

Identifies the object (file). Contains:

- objectIdentifierType Enter Value "filepath".
- objectIdentifierValue Enter here the name of the file. See also <u>Attachement</u>: Naming convention.

1.5. objectCharacteristics

Contains:

- 1.5.1. compositionLevel
- 1.5.2. fixity
- 1.5.3. size
- 1.5.4. format
- 1.5.7. objectCharacteristicsExtension

1.5.1. compositionLevel

Value always "0" (zero) for uncompressed file.

1.5.2. fixity

Information about checksum calculation. Information about current checksum and algoritm is repeated in mets/fileSec/fileGrp/file/@CHECKSUMTYPE and /@CHECKSUM. Contains:

- messageDigestAlgorithm MD5
- messageDigest the calculated checksum
- messageDigestOriginator eg. "MKC Riksarkivet".

1.5.3. size

Here is information about the size of the file expressed in byte. Example: "3120". The information is repeated in mets/fileSec/fileGrp/file@SIZE.

1.5.4. format

Information about the format. Contains:

- 1.5.4.1. formatDesignation
- 1.5.4.2. formatRegistry

1.5.4.1. formatDesignation

Information about file format and version.

- formatName Name of the file format. Value from PRONOM.
- formatVersion Version number of the file format according to PRONOM.

1.5.4.2. formatRegistry

Information about the format from PRONOM. Contains:

- formatRegistryName always Valuet "PRONOM".
- formatRegistryKey enter identificator/key to format and format version in PRONOM.
- formatRegistryRole always Value "specification".

1.5.7. objectCharacteristicsExtension

Container to register object characteristic data using other metadata standards. See also under MIX.

MIX

MIX is a metadata standard for describing technical metadata for image files. It is a translation into XML by another standard, ANSI / NISO Z39.87-2006.

Metadata that describes MIX are stored in a PREMIS object under the tag <objectCharacteristicsExtension>. Each image file should have its metadata stored in its own PREMIS object.

There is a lot of overlap between PREMIS and MIX. Some of the tags used in the MIX are retrieved directly from PREMIS. In cases where something can be described both in PREMIS and MIX we have chosen to use only PREMIS. If we instead chose to use the MIX, we usually still had to use elements from the PREMIS, but with the difference that the elements are embedded in the MIX section. Examples of data that can be stored in both MIX and PREMIS is basic file information (file format, etc.) and checksums.

BasicDigitalObjectInformation

Here is information of general nature stored which is applicable on all types of digital files, not just image files. Much of the information is redundant and is stored in other places in the scheme.

compression

If the image file is compressed, it is stated in the MIX because PREMIS does not support this.

Contains:

- compressionScheme. Values from ANSI/NISO Z39.87-2006
- compressionSchemeLocalList. Enter only if a custom dictionary is created
- compressionSchemeLocalValue. Enter only if a custom dictionary is created
- compressionRatio. Should according to the standard be specified as a positive integer but
 we also allow floating point when the compression rate in JPEG2000 is not limited to
 integer.

BasicImageInformation

This section contains basic metadata about the image file.

BasicImageCharacteristics

Metadata that is not related to a specific file format.

Imagewidth/imageHeigth

Width and height of the image in pixels

All the metadata that is related to color space is saved in MIX. It is possible to also store the version number of a color space in the name element (eg AdobeRGB 1998) but this makes it harder to find the version number. If the color space cannot be considered well established (eg eciRGBv2) a URI should be stored to simplify information retrieval. MIX also supports local

color profiles but we believe that such has a negative impact on long-term resistance and therefore should not be used.

PhotometricInterpretation

Contains:

colorSpace

PhotometricInterpretation/colorProfile/iccProfile

Contains:

- iccProfileName
- iccProfileVersion
- iccProfileURI (Note that the tag end on URI, not URL as ANSI/NISO Z39.87-2006 states).

SpecialFormatCharacteristics

Metatdata which is related to a specific file format.

MIX supports JPEG2000. The fields for the codestreamProfile and complianceClass is not used when we do not see any use for this metadata. Only a small number of parameters that are of importance for JPEG2000 can be specified in dedicated element. Unfortunately, a free text field is lacking where it is possible to store all the parameters used in the conversion. These should therefore be stored in the metadata field that is inside the image file.

JPEG2000/CodecCompliance

Contains:

- codec
- codecVersion

JPEG2000/EncodingOptions

Contains:

- tiles
- qualityLayers
- resolutionLevels

Image Capture Metadata

This section Contains technical metadata about the image capture.

SourceInformation

Metadata who relates from the captured (analoge) object.

Object orientation can be specified in MIX, which makes it easier to view the image in the correct orientation

Contains:

orientation

It is possible that in MIX specify the type of original that has been digitized. This information is usually stored in MODS. However, we can see the extremely rare cases where the majority of the image files have a certain physical original and a single image file has a different (eg a missing journal page which subsequently digitized from microfilm). In cases where the image files have different originals, sourceType should be used to record the originals type for different image files. The field sourceID is used to specify which physical original that has been digitized, sourceID is formatted in the same way as the corresponding material categories in MODS. For media types that are not covered the categories available in the ANSI / NISO Z39.87-2006 can be used. If this becomes necessary, we will need to create a glossary for these fields.

SourceID

Contains:

- sourceType
- sourceID

The size of the physical original can be specified in MIX. This information is redundant if the sampling frequency is stored as the size of the object can be calculated from the size and sampling frequency. If the equipment can automatically measure the physical size while the sampling frequency is unknown the size should be specified (in millimeters). In all other cases, this element can be left blank.

SourceSize/sourceX(Y)Dimension

Contains:

- sourceX(Y)DimensionValue
- sourceX(Y)DimensionUnit

GeneralCaptureInformation

Metadata for image capture, independent of image capture devices.

Time for image capture and the use of image capture equipment will be stored. <imageProducer> is normally left empty when this information stored in MODS. In the same way that a single image can have a different physical original than the majority of the images it can also have another digital origin. In these cases, the image producer should be stated.

Contains:

- dateTimeCreated
- captureDevice
- imageProducer

ScannerCapture

Metadata for image capture and technical equipment (scanner).

We make no use of the fields maximumOpticalResolution or scannerSensor, therefore these are not included. We recommend that the scanner's serial number is included to simplify the quality assurance of multiple scanners if the same model is used. To facilitate searches, scanner software and software version are specified in separate fields.

Contains:

• scannerManufacturer

ScannerModel

Contains:

- scannerModelName
- scannerModelNumber
- scannerModelSerialNo

ScanningSystemSoftware

Contains:

- scanningSystemSoftwareName
- scanningSystemSoftwareVersionNo

DigitalCameraCapture

Metadata for image capture and technical equipment (scanner).

We make no use of the fields maximumOpticalResolution or scannerSensor, which therefore are not included. We recommend that the scanner's serial number is included to simplify the quality assurance of multiple scanners if the same model is used. To facilitate searches, scanner software and software version are specified in separate fields.

Contains:

• digitalCameraManufacturer

ScannerModel

Contains:

- digitalCameraModelName
- digitalCameraModelNumber
- digitalCameraModelSerialNo

A selection of the metadata derived from the actual image capture with the camera has been made. Metadata that may be useful or in demand have been included, while all other fields (eg OECF and spectralSensitivity) are not included in the specification. Some fields in the standard are also duplicated because they describe the same thing but using different devices and formats (eg ½ s and 0.5 s for the shutter speed).

CameraCaptureSettings/ImageData

Contains:

- fNumber
- exposureTime
- isoSpeedRatings
- exifVersion
- exposureBiasValue
- lightsource
- focalLength
- autoFocus

ImageAssessmentMetadata

Metadata that deals with the quality of the image.

SpatialMetrics

If the equipment can measure the practical sampling rate, this should be stated and prevail over the originals physical size (see above). It is important to note that the sampling frequency changes with the distance to the object.

samplingFrequencyUnit

Contains:

- xSamplingFrequency
- ySamplingFrequency

ImageColorEncoding

The images color depth should be stated both in the total number of bits and the number of bits for each color channel. It is possible to specify more advanced color information, but we see no benefit to this.

Contains:

samplesPerPixel

bitsPerSample

Contains:

- bitsPerSampleValue
- bitsPerSampleUnit

TargetData

The image quality is measured with help from targets and to enable a subsequent verification, information from the quality measurement is included in the archive package. This is done by one output file that is saved in the archive package. It is possible to point to the result file from MIX but to create uniform package, this is done instead from fileSec/structMap . Information about the used target should always be saved. An external target is captured alone, while an internal target appears in the same picture as the object. Identifiers for individual objectives should be included in the metadata. For more information about quality measurement, see separate documentation

Contains:

• targetType ("external"/"internal", not 0/1 as stated in ANSI/NISO Z39.87-2006)

TargetID

Contains:

- targetManufacturer
- targetName
- targetNo

Change History

If the image file is processed this should be specified in ChangeHistory . It is important that both describe the software used, and all the parameters and purpose with post processing. The aim, however, should only be indicated if it deviates from normal processing. Only the last processing is saved in <ImageProcessing>. Earlier processing is moved to a block under the Previous Image Metadata. If multiple processes are carried out, they are stored

chronologically (most recent at the top of Previous Image Metadata and the first last). Information saved in Previous Image Metadata should never be erased.

ImageProcessing

Contains:

- dateTimeProcessed
- processingAgency
- processingRationale (explanatory text in image processing that is not performed routinely)
- processingActions

processing Software

Contains:

- processingSoftwareName
- processingSoftwareVersion

ALTO

ALTO is a metadata standard used to store information about both the content and the layout. The full ALTO standard is included in the metadata specification for Digidaily. However, not all the elements and attributes contained in the standard are to be used. The element and attribute deemed necessary or desirable for a good metadata level has been specified below. The majority of these elements and attributes are requirements and the use of a small part depends on whether the software can automatically deliver them. It is possible that the software used for OCR and segmentation in a good way also can supply elements and attributes that are not explicitly included in the specification below. When this is the case, these elements and attributes may be included in the specification after a valuation. To enable this, working closely with MKC is a necessity.

There must always be one ALTO file for each image file. This also applies to pages that are missing in the physical original as these are replaced with blank pages in the archive package.

Data in ALTO are usually specified as attributes instead of elements which are more common in other metadata standards that are included in the specification. Attribute has in bulleted lists been intended an extra level.

Description

This section contains metadata of a more general nature.

As a unit of measure 1/10 mm is used, because other units are both more difficult to visualize and to translate into SI units.

Contains:

• MeasurementUnit (mm10)

The filename of the file that was used to generate the information in the ALTO file should always be specified. While it is possible to connect the ALTO file with the original file through information in the METS file, but by including the file name an insurance against data loss is created because the filename Contains Libris number for the entry of the digitized publication. This also makes it easier to identify the contents of a file in an independent ALTO file.

sourceImageInformation

Contains:

• fileName

All image processing that is done before the OCR is reported in the METS file (under MIX), why this metadata does not need to be repeated inside the ALTO file. Other settings are specified in an instance of OCR processing. In such an instance only one description of the parameters used in character recognition is allowed. Since the ALTO file describes a single image file, this is no problem. If the ALTO file instead had described several pages and the pages characters had been interpreted with different settings, several instances of this element

had been needed. If the result from the character recognition have been post processed, this must be stated within this element. Note that several different settings for the post processing can be indicated. It is important that the parameters and settings, both for character recognition, and post processing, are described in detail to allow for reinterpretation and valuation of the result.

OCRProcessing/ocrProcessingStep

Contains:

- processingDateTime
- processingAgency
- processingStepSettings
- processingSoftware

OCRProcessing/ocrProcessingStep/processingSoftware

Contains:

- softwareCreator
- softwareName
- softwareVersion
- applicationDescription (Description of the key features for the software. Used for eg Non-commercial software)

OCRProcessing/postProcessingStep

Contains:

- processingDateTime
- processingAgency
- processingStepSettings
- processingSoftware

OCRProcessing/postProcessingStep/processingSoftware

Contains:

- softwareCreator
- softwareName
- softwareVersion
- applicationDescription (Description of the key features for the software. Used for eg Non-commercial software)

To reduce the ALTO file's scope, a number of font sizes are defined. In the text references to these sizes are then entered. The granularity of the sizes should initially be limited to 0.5 points and only font sizes appearing on newspaper page will be included in the list. Granularity should be evaluated to determine if there is enough with a difference of 1 point.

Styles

Contains:

• TextStyle

o ID

o FONTSIZE

Layout

In this section, all metadata is saved that derives from the object's structure, such as dimensions, text content, images, titles, etc. In ALTO the hierarchy PAGE> Print Space> TextBlock-> Text Line> String are used to describe the content of a page

Some metadata is listed on page level. In the attribute QUALITY a rough measure of the page's quality is stated (OK, Damaged, Missing). Here it is especially important to specify whether the page is missing.

It is also possible to supplement the measure with a descriptive text if needed, eg "the page contains a hole." If pagination is automatically identified, this should be included. Page position should also be indicated (right, left, etc.) if this can be done automatically. The estimated accuracy of the character recognition on page level should be specified if the software can deliver this. The accuracy can be specified in two places in the standard (<Accuracy> and Page Confidence, <PC>) and it is difficult to see why this is so. It is possible that it is so simple that the two attributes are distinguished in that they use different units (<Accuracy> given in percentages and <PC> as a number between 0 and 1). Both measures should be specified if the software supports it. If this is not the case, only the attribute that is supported should be entered.

The page margins are not stated explicitly as they can be easily calculated from the far side and printSpace (the extent of the text, not including page numbers and similar text).

Page

Contains:

- PAGECLASS
 - HEIGHT
 - o WIDTH
 - o PHYSICAL_IMG_NR (page number within the publication, normal serial numbers of the image file)
 - o PRINTED_IMG_NR (the printed page number desirable if it can be identified)
 - o PROCESSING (Link to OCRProcessing-element)
 - o OUALITY (The quality of the page in the physical original)
 - o QUALITY DETAIL (free text)
 - o POSITION
 - o ACCURACY
 - o PC
- PrintSpace
 - o HEIGHT
 - o WIDTH
 - o HPOS
 - o VPOS

PrintSpace

A physical journal page should be split in the hierarchy TextBlock/TextLine/String (where string can be replaced by SP for space and HYP for hyphens). For all the elements size, position and ID are specified. The ID number may simplify future text corrections.

Contains:

- TextBlock
 - o ID
 - o HEIGHT
 - o WIDTH
 - o HPOS
 - o VPOS
 - o ROTATION (The text block's slope. The value is given as degrees counterclockwise)

It is possible to specify the language for a text block. This opportunity should be used only if the language is not Swedish. If the software can automatically recognize the language, it can be used in the field.

PrintSpace/TextBlock

Contains:

- TextLine
 - o ID
 - o HEIGHT
 - o WIDTH
 - o HPOS
 - o VPOS
- language

For each word, alternative spelling can be specified. The number of alternative spellings should be minimized to two because too many incorrect spelling choices can result in an impaired searchability (we expect that the alternative spellings will be searchable).

It is possible to specify the estimated accuracy for character interpretation on both the character and the word level. We have not found any use of accurate character level that justifies its storage. However, we have seen a few cases where word accuracy is estimated at 100%, but where alternative and incorrect spellings yet have been set. In these cases the word accuracy have been used to exclude the alternative spellings.

Hyphens (Hyp) may only be entered as the last character on a line (hyphen included in/as a regular String if they appear anywhere else on the line). The hyphen indicates that the last string continues on the next line. Since the hyphen may have different design (long, short, etc.) then also its appearance should be given in The Content attribute. In at least the U.S. they seem not to use Hyphen to explicitly mark hyphenation which may indicate that not all software supports this. It is important to use Subs_type (for the two String elements) at hyphenating, and complete the hyphenated word so that it is searchable in the text.

If an abbreviation is found in the text, subs_type should, if possible also be used to include the unabridged word. As a result, searches performed on the unabridged word also include hits on the acronym.

PrintSpace/TextBlock/TextLine

Contains:

- String (One word, separated by spaces or hyphen)
 - o ID
 - o HEIGHT
 - o WIDTH
 - o HPOS
 - o VPOS
 - o CONTENT (The content (the word) in the string)
 - o STYLEREFS
 - SUBS_TYPE (Contains the whole word in hyphenation or abbreviation (HypPart1, HypPart2 and Abbreviation)
 - o WC (Word confidence)
- ALTERNATIVE (Alternative Spellings that the OCR interpreter can generate)
- SP (space)
 - o ID
 - o HEIGHT
 - o WIDTH
 - o HPOS
 - o VPOS
- HYP (hyphen)
 - o ID
 - o HEIGHT
 - o WIDTH
 - o HPOS
 - o VPOS
 - o CONTENT (hyphen design)

Links/References

PREMIS, http://www.loc.gov/standards/premis/

MODS, http://www.loc.gov/standards/mods/

METS, http://www.loc.gov/standards/mets/

MIX, http://www.loc.gov/standards/mix/

ALTO, http://www.loc.gov/standards/alto/

The National Librarys profiles and schemes for packaging in METS, http://www.kb.se/namespace/mets/

Attachements

File naming convention

Metadataelement och attribute i METS, MODS, PREMIS och MIX (table)

ALTO - element and attribute (table)

glossary (table)

Instruction for missing page/missing number

| Project Digidaily: Metadata elements and attributes in METS, MODS, PREMIS, MIX | | | Updated 2012-07-10 | | | | | |
|--------------------------------------------------------------------------------|--------------|--------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|----------------------|----------------------------------------------------------------------------------------------------------|-----------------------|
| Scheme | Element name | Attribute | Value in attribute | Value in element | M/O | Repeat N | Notes/comments | Comments |
| | | | | | M: man | | mandatory if applicable O=Optional | |
| | | | | | | E | Blue text represents the metadata that comes from KB and/or KB's system | |
| | | | | | | | Red text = updates, comments, etc. that need to be checked | |
| METS | mets | obligatoriska name | space och attribut: | | М | | Contains: metsHdr, dmdSec, amdSec, fileSec, StructMap | |
| | | xmlns:mets | http://www.loc.gov/N | METS/ | | | | Instead use METS |
| | | xmlns:mods | http://www.loc.gov/n | nods/v3 | | | | |
| | | xmlns:premis | info:lc/xmlns/premis | | | | | |
| | | xmlns:mix | http://www.loc.gov/n | nix/v20 | | | | |
| | | xmlns:alto | http://www.loc.gov/s | standards/alto/ns-v2# | | 1 | Not needed when alto is not included in the METS | |
| | | xmlns:xlink | http://www.w3.org/1 | 999/xlink | | | | |
| | | xmlns:xsi | http://www.w3.org/2 | w3.org/2001/XMLSchema-inst | | | | |
| | | xsi:schemaLocation | http://www.kb.se/na | l mespace/mets/kbse_i | mets_001 | l.xsd | | |
| | | | http://www.kb.se/na | kb.se/namespace/mods/kbse_mods_001.xsd kb.se/namespace/premis/kbse_premis_001.xsd | | | | Empty spacing between |
| | | | | | | | | |
| | | | http://www.kb.se/namespace/mix/kbse_mix20_001.xsd | | | | | |
| | | | http://www.kb.se/namespace/alto/kbse_alto-v2.0_001.xsd Not needed when alto is not included in the METS | | | | | |
| | | PROFILE | http://www.kb.se/namespace/mets/kbse_mets_profile_001.xml | | | the whole address is | | |
| | | ID | | | M | | The name of the mets file. Se separate instructions for ille naming. Repeated in metsHdr/@metsDocumentID | |
| | | OBJID | | | М | | Unique identifier for the packet which is based on the illename. | |
| | | LABEL | | | М | (| Get the paper's title from dmdSec/mdWrap/ @LABEL=Primary//mods:title. Example: Aftonbladet 1851-12-04 | |
| | | TYPE | SIP | | M | NR \ | Value should always be "SIP" | |
| | | | | | | | | |

| metsHdr | | | | М | NR | Under: mets. Contains: agent, metsDocumentID | |
|----------------|--------------|-------------------------------|----------------------|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 15151151 | CREATEDATE | | | M | NR | Date and time when the mets file was created. Written | |
| | | | | | | YYYY-MM-DD'T'HH: mm: ss +01:00 | |
| | RECORDSTATUS | | | MA | NR | Used to indicate if a package is a replacement or an addition to a previously delivered package. RECORD STATUS is written only if any of the values SUPPLEMENT or REPLACEMENT should be assigned to the package | RECORD STATUS is written only if any of the values SUPPLEMENT or REPLACEMENT should be assigned to the package |
| | | REPLACEMENT | | | | Replacement - The entire package, with all data exchanged | The entire package, with a data is replaced |
| | | SUPPLEMENT | | | | supplementation - parts of the package are replaced / and or supplemented with more data | Parts of the package is replaced/and or supplemented with more data. See special instructions |
| agent | | | | M | | Under: metsHdr. Contains name. Agent registered 2 times for the MKC National Archives (role = creator) and the National Library (role = archivist). | |
| | ROLE | | | М | | | |
| | | CREATOR | | | | | |
| | | ARCHIVIST | | | | | |
| name | | | | M | | Under: agent. Obligatory attribute type with the value: organization | |
| | TYPE | ORGANIZATION | | М | | | |
| | | | Riksarkivet/MKC | | | | |
| | | | Kungliga biblioteket | | | | |
| | | | | | | | |
| metsDocumentID | | | | М | | Under: metsHdr. Same value as in mets/@ID | |
| | | Th | e newspaper number | | | | |
| dmdSec | | | | M | R | Under: mets. Contains: mdWrap | |
| | ID | dmdSec001, dmdSec002, etc. | | М | NR | Consecutive numbering of dmdSec according to pattern "dmdSec001", "dmdSec002", "dmdSec003" etc. | |
| mdWrap | | | | М | NR | Under: demdSec.Contains xmlData | |
| | LABEL | Primary | | | | | These can not be inserted mandatory in the schedule in the case of multiple elements, so this must be properly expressed in the |
| | MDTYPE | MODS | | М | NR | | |
| xmlData | | | | М | NR | Under: mdWrap. Contains: mods | |
| | | | | | | - | |

| MODS | mods | | | | М | NR | Contains: identifier, typeOfResource, genre, originInfo, physicalDescription, relatedItem | |
|------|-----------------------------|-----------|----------|-----------------------------------------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| | | | | | | | | |
| | identifier | type | local | [mkc:s resursid] | M | NR | Under: mods. | This id is in most cases the same as mets@objid. |
| | typeOfResource | | | text | M | NR | Under: mods. | |
| | | | | | | | | |
| | genre | authority | marcgt | issue | М | NR | Under: mods. | |
| | titleInfo | | | | М | NR | Under: mods. Contains: title | |
| | title | | | | M | NR | Under: titleInfo . The newspaper's title and date/number | New addition in this version |
| | uue | | | | IVI | INK | (date/number). Same value as in mets:mets@LABEL. Example: Aftonbladet 1851-12-04 | of the specification (2012- 04-04) |
| | originInfo | | | | M | NR | Under: mods. Contains: dateIssued, note, edition. The | |
| | Oligiliilio | | | | IVI | INIX | data on originalInfo regards the analog (printed) original. | |
| | dateIssued | | | | М | NR | Under: originInfo. Example: 1834-08-11. | |
| | | encoding | w3cdtf | | М | NR | | |
| | | qualifier | inferred | | MA | NR | If dating is missing, or incorrect, in the original, state an expected date and QUALIFIER attribute with the value: "inferred". | |
| | note. | t 100 0 | dete | | 0 | | Under against take Anadisassassas to a "note" to auton | Repetition. Instead use |
| | note | type | date | | | R | Under: originalInfo . Are discussed: In a "note" to enter if the date in the original is missing / incorrect. Instead, use the note in relatedItem type=host | note in relatedItem type=host |
| | edition | | | The values according to controlled list | ng MA | NR | Under: originalInfo . Value is the same as bibliographic ID in Signe | |
| | | | | | | | | |
| | physicalDescription | | | | M | NR | Under: mods. Contains: digitalOrigin, note | |
| | digitalOrigin | | | | M | NR | Under: physicalDescription | |
| | - 3 ··· 3 ··· 3 ··· 3 ··· 3 | | | reformatted digital | 1 | 1 | digitization from printed original | |
| | | | | digitized microfilm | | | digitization from micro film | |
| | | | | | | | | |

| note | type | reproduction | Digital reproduktion: Stockholm: Riksarkivet/MKC i samarbete med Kungliga biblioteket, [yyyy] | M | NR NR | Under: physicalDescription. Under: physicalDescription. | |
|------------------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------|-----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| | 31 - | | vcScriptType_kbse | | | , , , , , , , , , , , , , , , , , , , , | |
| | | Mi | cro film as original | | | | |
| | | <u></u> | | | | | |
| relatedItem | type | original | | MA | R | Under: mods. Contains: identifier, location, physicalDescription | |
| identifier | type | reel number | [sträng] | M | NR | Under: relatedItem. Mikrofilmens nummer | |
| | | | | 0 | NID | | |
| location holdingSimple | | | | 0 | NR NR | under: relatedItem. Contains holdingSimple Under: location. Contains copyInformation | |
| noidingSimple | | | | O | INK | Under: location. Contains copylinormation | |
| copyInformation | | | | 0 | NR | Under: holdingSimple. Contains note | |
| note | | | | 0 | R | Under: copyInformation. Notes about the originals. Can be repeated | Can be used when necessary for comments in free text |
| note | type | condition | | 0 | NR | Under: copyInformation. Notes about the originals physical condition. | Can be used when necessary for comments in free text |
| physicalDescription | | | | М | NR | Under: relatedItem. Contains: form | |
| | authority | marcform | microfilm | IVI | INK | Under: physicalDescription | |
| IOIII | authonty | marcionii | micronim | | | Origer: physicalDescription | |
| | | Prin | ted copies as origina | I | 1 | 1 | |
| relatedItem | type | original | ou copico do crigina | MA | R | Under: mods. Contains: identifier, location, | If more than one copy of |
| | | 3 | | | | physicalDescription. If more than one copy of the newspaper delivered , relatedItem is repeated | the newspaper has been delivered, relatedItem is to be repeated |
| identifier | type | local | [sträng] | M | NR | Under: relatedItem. Code that identifies the copy used for original. The values in positions 1-2 in the preparation code from Signe. Example: "S-A" | See updated guidance for relatedItem@type="original" |

| location | | | | 0 | NR | Under: relatedItem. Contains holdingSimple. | |
|---------------------|-----------|---------------------|--------------------|-------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| location | | | | | 1414 | Onder. Telateditem. Contains notaingoimple. | |
| holdingSimple | | | | 0 | NR | Under: location. Contains copyInformation | |
| copyInformation | | | | | | Under: holdingSimple.Contains note | |
| note | | | | 0 | R | Under: copyInformation. Notes about the originals. Can be repeated | Can be used when necessary for comments in free text |
| note | type | condition | | 0 | NR | Under: copyInformation. Note on originals physical condition. Here are the value at the position 4 of the preparation code from Signe. For example, "1" | See updated guidance for relatedItem@type="original" |
| physicalDescription | | | | М | NR | Under: relatedItem. Contains: form | |
| form | authority | marcform | print | М | NR | Under: physicalDescription | |
| | Host nub | lication (newspaper |) including number | ing and dat | e of news | chanar iccua: | |
| relatedItem | type | host |) including number | M | NR | Under: mods. Contains: genre, titleInfo, originInfo, | Note. <relateditem> are the</relateditem> |
| | 77- | | | | | language, identifier, part, note | parent (container-element) to genre, titleInfo , originalInfo, language identifier, part, note |
| genre | authority | marcgt | newspaper | М | NR | Under: relatedItem | |
| titleInfo | | | | M | NR | Under: relatedItem. Contains: title | |
| title | | | | M | NR | Under: titleInfo. The title of the host publication. Metadata from KB/LIBRIS | |
| originInfo | | | | M | R | Under: relatedItem. Contains: dateIssued | |
| dateIssued | encoding | w3cdtf | | M | NR | Under originInfo. Date according to pattern YYYY-MM-DD | |
| | point | start | | M | NR | Date for the first ed number (start date) | |
| | point | end | | M | NR | Date of the last ed number (end date) | |
| language | | | | M | R | Under: relatedItem. Contains: languageTerm | |
| languageTerm | type | code | | M | NR | Under: language | |
| | encoding | iso639-2b | | M | NR | A three-digit code according to ISO639-2b | |
| | | | | | | | |

| identifier | type | | | М | R | Under: relatedItem. Identifiers to the newspaper in its entirety (host publication) | The Newspaper Unit needs to provide MKC with proper id:s: |
|-------------|-----------|-----------|-------------------------------------------------|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| | | uri | http://libris.kb.se/reso urce/bib/[librisid] | М | NR | URI to the libris record of the digital newspaper (host publication) | Aftonbladet has: http://libris.kb.se/resource/b ib/4345612 |
| | | issn | | MA | NR | ISSN to the newspaper online. The metadata from KB/LIBRIS. Printed without hyphen | Aftonbladet has: 14039656 |
| | | | | | | | |
| part | | | | MA | NR | Under: relatedItem. Contains: detail, date | |
| detail | type | issue | | MA | NR | Under: part. contains: number | |
| number | | | | MA | NR | Under: detail. The newspaper's numbering here, if there is one. le printed numbering or other denotation (eg Sample number) on the newspaper number. | |
| date | encoding | w3cdtf | | MA | NR | Number of the microfilm is in relatedItem / TYPE = "" original "" / identifier / TYPE = "" reel number "" " | |
| | qualifier | inferred | | MA | NR | If dating is missing, or incorrect, in the original, state an expected date and the attribute QUALIFIER with the value: "inferred". | |
| note | type | date | | 0 | R | Under: relatedItem. Under discussion: In a "note" to enter if the date in the original is missing/is incorrect. Standard Phrase: "Dating is missing or incorrect" | |
| note | type | numbering | | 0 | R | Under: relatedItem. Under discussion: In a "note" enter if numbering in the original is missing/is incorrect. Standard Phrase: "Numbering missing or incorrect" | |
| | | | The Project: | 1 | 1 | | |
| relatedItem | type | host | · | М | NR | Under: mods. Reference to information in LIBRIS about the project. Contains: genre, title info, identifiable | Note. <relateditem> are the parent (container-element) to genre, titleInfo, identifier</relateditem> |
| genre | | | project | M | NR | Under: relatedItem. Value from list genreterm_kbse | |
| titleInfo | | | 7 | M | NR | Under: relatedItem. Contains: title | |
| title | | | Digidaily | M | NR | Under: titleInfo. The title of the project. Always the same value | |
| identifier | type | uri | http://libris.kb.se/reso urce/bib/12101075 | M | NR | Under: relatedItem. URI till LIBRIS-post about the project. Will always have the same id | |

| | T | | | T | | | | |
|------|-------------|-------------------|-------------------------------|------------------------------------|----|----|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| | <u> </u> | Appendix, section | n headline: | | | | Headline could be excluded here and instead only be recorded in structMap | |
| METS | dmdSec | | | | MA | R | Under: mets. Contains: mdWrap | |
| | | ID | dmdSec001, dmdSec002, etc. | | М | NR | Consecutive numbering of all dmdSec: dmdSec001, dmdSec002 etc. | |
| | mdWrap | MDTYPE | MODS | | М | NR | Under: dmdSec. Contains:xmlData | |
| | xmlData | | | | М | NR | Under: mdWrap. Contains: mods | |
| MODS | mods | | | | M | NR | Under: xmlData. Contains: relatedItem | Note. <xmldata> must here be followed by <mods></mods></xmldata> |
| | relatedItem | type | constituent | | М | NR | Under: mods. Contains: titleInfo, subject, genre, originInfo, note | Note. <relateditem> are the parent (container-element) to to other elements within this the mods section</relateditem> |
| | titleInfo | | | | | | Under: relatedItem. Contains: partName | |
| | partName | | | | MA | NR | Under: titleInfo . Name of the appendix or section. Here are also any letter or number designation | Headlines has no names. |
| | PartNumber | | | | MA | NR | Not used | |
| | | | | | | | | |
| | subject | | | | MA | R | Under: relatedItem. Keywords that describe the content of the appendix. Contains topic | |
| | topic | authority | bilagetyp_kbse | Value according to controlled list | MA | NR | Under: subject. KB provides the terms | |
| | genre | | | supplement | MA | NR | Under: relatedItem. Value according to genreterm_kbse | |
| | | | | section | MA | NR | | |
| | | | | newsbill | MA | NR | | |
| | | | | | | | | |
| | originInfo | | | | 0 | NR | Under: relatedItem. Contains: dateIssued | |
| | datelssued | encoding | w3cdtf | | 0 | NR | Under: dateIssued. The data on originalInfo regards the analog (printed) original. Listed if date differs from issue. | Changed from MA to O |
| | | qualifier | inferred | | 0 | NR | If dating is missing, or incorrect. In the original an expected date and the attribute QUALIFIER with the value: "inferred" is used. | Changed from MA to O |
| | note | type | date | | 0 | R | Under: relatedItem. In a "note" enter if the date in the original is Missing/incorrect | |

| | note | | | | 0 | R | Under: relatedItem. Standard Phrase: "Title added by | |
|--------|----------|-------------------|----------------------|----------------------|-----|------|--------------------------------------------------------|-------------------------------------|
| | note | | | | | | hand, probably temporary appendix" | |
| | | | | | | | Tidita, probably temperary apportant | |
| | 1 | Local informatio | n about delivery | | | | | |
| METS | dmdSec | Local Illiormatio | in about activery. | | М | R | Under: mets. A locall dmdSec, to handle name + id for | |
| IVIETS | undsec | | | | IVI | K | supplier. Contains: mdWrap | |
| | | ID | dmdSec001, | | М | NR | Supplier. Contains. muvrap | |
| | | lib | dmdSec001, | | IVI | INIX | | |
| | | LABEL | Local | | М | NR | | Corrected typos. |
| | | LABEL | Local | | IVI | INIX | | Previously, it was "local" |
| | | | | | | | | with small initial letter |
| | mdWrap | MDTYPE | MODS | | М | NR | Under: dmdSec. Contains: xmlData | |
| | xmlData | WDTTL | WODO | | M | NR | Under: mdWrap. Contains: mods | |
| MODS | mods | | | | M | NR | Under: xmlData. Contains: name | Note. <xmldata> must here</xmldata> |
| WODO | mous | | | | IVI | IVIX | Onder. Ambata. Contains. name | be followed by <mods></mods> |
| | | | | | | | | |
| | | | | | | | | |
| | name | type | corporate | | М | R | Under: mods. Contains: namePart, role | |
| | | authority | local | | М | NR | , | |
| | | valueURI | http://id.kb.se/orga | | М | NR | The form for organization id: SE[organization number]- | The form changed in |
| | | | nisations/SE20210 | | | | [suffix] | consultation with RA in |
| | | | 01710 | | | | | order to harmonize with the |
| | | | | | | | | HSA code used by local |
| | | | | | | | | governments. |
| | namePart | | | Kungliga biblioteket | М | NR | Under: name. The name of the publisher, here always | |
| | | | | | | | Kungliga biblioteket | |
| | role | | | | M | NR | Under: name. Contains: roleTerm | |
| | roleTerm | type | text | | M | NR | Value always publisher | |
| | | authority | marcrelator | publisher | | | | |
| | | | | | | | | |
| | name | type | corporate | | M | R | Under: mods.Contains: namePart, role | |
| | | authority | marcrelator | | M | NR | | |
| | | valueURI | http://id.kb.se/orga | | M | NR | The form for organization id: SE[organization number]- | The form changed in |
| | | | nisations/SE20210 | | | | [suffix] | consultation with RA in |
| | | | 01074-MKC | | | | | order to harmonize with the |
| | | | | | | | | HSA code used by local |
| | | | | | | | | governments. |
| | namePart | | | Riksarkivet/MKC | М | NR | | |
| | role | | | | M | NR | Under: name. Contains: roleTerm | |
| | roleTerm | type | text | | M | NR | Under: role. Value always supplier | |
| | | authority | marcrelator | supplier | | | | |
| | | | | | | | | |

| | | METS PRE | MIS:OBJECT | | | | | |
|--------|-------------------------|----------|----------------|-----------------|----|----|-------------------------------------------------------------|--|
| METS | amdSec | | | | М | NR | Under: mets. Contains: techMD | |
| | | ID | amdSec001 | | М | NR | | |
| | techMD | | | | М | R | TechMD repeated for each object included in the | |
| | | | | | | | package. Contains: mdWrap | |
| | | ID | techMD001, | | М | NR | | |
| | | | techMD002 etc. | | | | | |
| | mdWrap | MDTYPE | PREMIS:OBJECT | | М | NR | Contains: xmlData | |
| | xmlData | | | | М | NR | Contains: premis | |
| PREMIS | premis | | | | М | NR | Contains: object | |
| | object | | | | М | NR | Contains: objectIdentifier, objectCharacteristics, relation | |
| | | | | | | | | |
| | | xsi:type | | | М | NR | | |
| | | | file | | MA | NR | Repeat techMD/object=file for each data file inclluded | |
| | | | | | | | in the package. | |
| | | | representation | | MA | NR | Always a techMD/object=representation for each | |
| | | | | | | | package. | |
| | | | | | | | | |
| | objectIdentifier | | | | М | NR | Contains: objectIdentifierType, objectIdentifierValue | |
| | objectIdentifierType | | | | М | NR | | |
| | | | | filepath | | | object=file | |
| | | | | uri | | | | |
| | | | | local | | | object=representation | |
| | objectIdentifierValue | | | | М | NR | When object=file the value becomes the same as the | |
| | | | | | | | file name (filepath). When object=representation the | |
| | | | | | | | value becomes the same as in mets/@OBJID | |
| | | | | | | | | |
| | | | | | | | | |
| | objectCharacteristics | | | | MA | NR | Contains: compositionLevel, fixity, size, format, | |
| | | | | | | | objectCharacteristicsExtension | |
| | compositionLevel | | | 0 | М | NR | 0(noll) = Uncompressed file | |
| | | | | | | | | |
| | fixity | | | | M | R | Contains: messageDigestAlgorithm, messageDigest, | |
| | | | | | | | messageDigestOriginator | |
| | messageDigestAlgorithm | | | MD5 | М | NR | KB:s metsprofile support MD5 och SHA-1 | |
| | messageDigest | | | | M | NR | checksum | |
| | messageDigestOriginator | | | MKC Riksarkivet | M | NR | | |
| | | | | 2 | | | | |
| | size | | | | М | NR | a number in the unit byte | |
| | | | | | | | | |
| | format | | | | М | | Contains: formatDesignation, formatRegistry | |
| | formatDesignation | | | | M | NR | Contains: formatName, formatVersion | |

| | formatName | | M | NR | enter the name of the format (Name:) according to PRONOM, http://http://www.nationalarchives.gov.uk/PRONOM/ | Earlier MIME type. Afte discussion with RA, the format name will be changed according to PRONOM |
|---|--------------------------------|------------------------------|-----|----|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| | | JPEG2000 | | | | |
| | | Extensible Markup | | | | |
| | | Language | | | | |
| | formatVersion | | М | NR | enter the version of the format according to PRONOM, or leave blank if information is missing | |
| | | 1.0 | | | Format version for xml | |
| | | [No information] | | | Format version leave blank for jpg2000 | |
| | formatRegistry | | M | NR | Contains: formatRegistryName, formatRegistryKey, formatRegistryRole | |
| | formatRegistryName | PRONOM | М | NR | Value, always from PRONOM | |
| | formatRegistryKey | | М | NR | Formatets ID i PRONOM | |
| | | x-fmt/392 | | | Formatkey för jpg2000 | |
| | | fmt/101 | | | Formatkey för xml | |
| | formatRegistryRole | specification | М | NR | Always "specification" | |
| | objectCharacteristicsExtension | | M | | Container for metadata according to other standards. Contains: mix | |
| | objectCharacteristics | Extension: MIX | | | Technical metadata for image files | |
| X | mix | | | | | |
| | BasicDigitalObjectInformation | | | | | |
| | compression | | М | R | (for each filel) | |
| | compressionScheme | string/enumerated local list | n M | NR | Initially, the values of ANSI / NISO are used. If these are not sufficient, create a custom list | |
| | compressionSchemeLocalList | reference/URL | MA | NR | location of the file containing the local enumerated list | |
| | compressionSchemeLocalValue | | MA | NR | Values from the local glossary | |
| | compressionRatio | float (actually int) | MA | NR | 6, 8, 10 etc. 6 corresponds to 6:1. JPEG2000 may have e.g. 1:13.3 so I suggest we use the float. O o standard, MA with us | |
| | BasicImageInformation | | | | | |
| | BasicImageCharacteristics | | М | NR | | |
| | imageWidth | int | M | NR | Width in pixels. (Specifies the width of the image in horizontal or X dimension Should be registrered in pixels) | |

| imageHeigth | int | M | NR | Height i pixels (Specifies the length of the image in vertical or or Y dimension, should be registrered in nixels) |
|------------------------------|------------|--------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BasicImageInformation | | | | |
| BasicImageCharacteristics | | | | |
| PhotometricInterpretation | | | | |
| colorSpace | string | М | NR | RGB, CMYK, Lab, etc. Should be from list even if it is not in the standard |
| BasicImageInformation | | | | |
| BasicImageCharacteristics | | | | |
| PhotometricInterpretation | | | | |
| ColorProfile | | MA | NR | |
| iccProfile | + | | NR | |
| iccProfileName | string | | NR | sRGB, adobeRBG etc |
| iccProfileVersion | string | | NR | T.ex 1998 |
| iccProfileURI | string/URL | | NR | If the profile is not well known, a URI must be specified. |
| SpecialFormatCharacteristics | | MA | NR | Only for JPEG2000 |
| JPEG2000 | | | | |
| CodecCompliance | | MA (O) | | (Some O in the standard, MA with us) |
| codecVersion | string | MA (O) | | Kakadu |
| codecVersion | string | MA (O) | NR | 3.1 |
| SpecialFormatCharacteristics | | | | |
| JPEG2000 | | | | |
| EncodingOptions | | | NR | |
| tiles | string | | NR | 1024x1024 |
| qualityLayers | int | MA | NR | 14 |
| resolutionLevels | int | MA | NR | 6 |
| | | | | Note: The parameters used in the encoding should be saved inside the file in an XML field. |
| ImageCaptureMetadata | | | | |
| SourceInformation | | | | |
| SourceID | + | | | |
| sourceType | string | MA | NR | Used only if the current image has different origin than the majority of the files in the package (eg previously missing page scanned from micro film). Normal values are digitized microfilm born digital and reformatted digital. |

| sourceID | string | MA | NR | Identifier to the , physical object, such as which microfilm roll is used. Formatted in the same way as the corresponding materials category in MODS | |
|---------------------------|------------|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| | | | | , , , | |
| | | | | | |
| ImageCaptureMetadata | | | | | |
| SourceInformation | | | | | |
| SourceSize | | | | | |
| sourceXDimension | | _ | | | |
| sourceXDimensionValue | real | 0 | NR | Shall be entered if the equipment can automatically deliver the value and if not sampling rate can be set. Can be used for scaling. | |
| sourceXDimensionUnit | enumerated | MA | NR | millimeter | |
| | | | | | |
| ImageCaptureMetadata | | | | | |
| SourceInformation | | | | | |
| SourceSize | | | | | |
| sourceYDimension | | | | | |
| sourceYDimensionValue | real | 0 | NR | Shall be entered if the equipment can automatically deliver the value and if not sampling rate can be set. Can be used for scaling. | |
| sourceYDimensionUnit | enumerated | MA | NR | millimeter | |
| ImageCaptureMetadata | | | | | |
| orientation | enumerated | M | NR | Enter a value according to | See glossary row 137ff |
| Shoritation | onamorated | | | http://www.loc.gov/standards/mix/mix20/mix20.xsd, typeOfOrientationType. See Glossary, row 137ff | occ glossary for form |
| | | | | | |
| GeneralCaptureInformation | | M | NR | | |
| dateTimeCreated | w3cdtf | M | NR | Date and tilme for the image capture. Is entereed according to w3cdtf som YYYY-MM-DD'T'HH:mm:ss+01:00. | |
| captureDevice | enumerated | M | NR | List of allowed values to be developed in cooperation with MKC, eg Scanner, digital camera, etc | |
| imageProducer | string | MA | NR | Used only if the image has a different origin than the the majority of the images, ie. analogous to the source Type/sourceID | |
| | | | | | |
| ScannerCapture | | MA | NR | All are R in the standard | |
| scannerManufacturer | string | MA | NR | Manufacturer | |
| ScannerCapture | | | | | |

| ScannerModel | | | | | | | |
|----------------------------|------------|-------|------------|----|----|-------------------------------------------------------------------------------------|--|
| scannerModelName | | | string | MA | NR | Name of model. | |
| scannerModelNumber | | | string | MA | NR | Number of model | |
| scannerModelSerialNo | | | string | R | NR | Serial number. Can be used for QA if multiple devices of | |
| | | | | | | the same scanner type are used. | |
| | | | | | | | |
| ScannerCapture | | | | | | | |
| ScanningSystemSoftware | | | | | | | |
| scanningSoftwareName | | | string | MA | NR | Name of scanner software. | |
| scanningSoftwareVersionNo |) | | string | MA | NR | Version name of scanner software. | |
| | | | | | | | |
| | | | | | | | |
| DigitalCameraCapture | | | | MA | NR | All are R in the standard | |
| digitalCameraManufacturer | | | string | MA | NR | | |
| | | | | | | | |
| | | | | | | | |
| DigitalCameraCapture | | | | | | | |
| DigitalCameraModel | | | | | | | |
| digitalCameraModelName | | | string | MA | NR | Model name | |
| digitalCameraModelNumber | | | string | MA | NR | Model number | |
| digitalCameraModelSerialNo | , | | string | R | NR | Serial number. Can be used for QA if multiple devices of | |
| | | | | | | the same scanner type are used. | |
| DigitalCameraCapture | | | | | | | |
| CameraCaptureSettings | | | | | | | |
| ImageData | | | | MA | | O in the standard | |
| fNumber | | | real | MA | NR | 8.0 | |
| exposureTime | | | real | MA | NR | 0.5 | |
| isoSpeedRatings | | | int | MA | NR | Eg. 100. Values from ISO12232 | |
| exifVersion | | | enumerated | MA | NR | Eg. 0220 (2.2). The values retrieved from EXIF 2.2 and | |
| | | | | | | formatted a bit differently | |
| exposureBiasValue | | | rational | MA | NR | 1.0 | |
| lightsource | | | enumerated | MA | NR | Eg. flourescent. Values from EXIF 2.2 | |
| focalLength | | | real | MA | NR | Eg. 0.08. In meters | |
| autoFocus | | | enumerated | MA | NR | Eg. Manual. Values from DIG35, B3.2.5 | |
| ImageAssessmentMetadata | | | | | | | |
| SpatialMetrics | | | | | | | |
| samplingFrequencyUnit | enumerated | 1,2,3 | | MA | NR | 1 = no unit, 2 = inch, 3 = centimeter Is this an attribute?) | |
| | | | | | | | |
| xSamplingFrequency | | | rational | MA | NR | Enter only if the value can be calculated automatically. Overrides sourceDimension | |
| | | | | | | Overrides sourceDimension | |

| ySamplingFrequency | rational | MA | NR | Enter only if the value can be calculated automatically. Overrides sourceDimension | |
|---------------------------|------------|----|------|-------------------------------------------------------------------------------------------------|--|
| | | | | CVCITIGGG GGGICGE IIII CITGIGIT | |
| ImageColorEncoding | | | | | |
| bitsPerSample | | М | NR | | |
| bitsPerSampleValue | string | M | NR | Eg. 8,8,8. Specifies the number of bits per color channel | |
| bilor creample value | Simig | " | 1414 | Eg. 6,6,6. Opcomed the number of bits per color channel | |
| bitsPerSampleUnit | int | М | NR | Specifies the unit for bitsPerSample | |
| ImageColorEncoding | | | | | |
| samplesPerPixel | int | М | NR | Specifies the number of color channels | |
| | | | | | |
| TargetData | | | | (R in the standard) | |
| targetType | enumerated | MA | NR | MA. 0 = external, 1 = internal. An external target takes | |
| | | | | up its own image, an internal target appear in the same picture as the object | |
| TargetData | | | | | |
| TargetID | | | | | |
| targetManufacturer | string | MA | NR | GreytagMacbeth | |
| targetName | string | MA | NR | ColorChecker | |
| targetNo | string | MA | NR | Which copy that is used | |
| ChangeHistory | | MA | NR | Somewhat complicated structure. See the documentation of the MIX/NISO for details | |
| ImageProcessing | | MA | R | Stored in chronological order if the order is significant | |
| dateTimeProcessed | w3cdtf | MA | NR | Last time of modification is saved. Written according to YYYY-MM-DD'T'HH: mm: ss +01:00 | |
| processingAgency | string/MKC | MA | R | Eg. MKC | |
| processingRationale | string | R | NR | Possibility to enter explanatory text at the image processing, which is not performed routinely | |
| ImageProcessing | | | | | |
| processingSoftware | | R | R | | |
| processingSoftwareName | string | R | NR | | |
| processingSoftwareVersion | string | R | NR | | |
| ImageProcessing | | | | | |
| processingActions | string | R | R | Eg. deskew 1.6%. Should if possible be the command sent to the program | |

| | PREMIS:relat | ionship | | | Deleted. See instead under metsHdr@RECORD STATUS | See instead under metsHdr@RECORDSTAT US |
|-----------|--------------|--------------------------------|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| | METS: file | Sec | | | | |
| ETS | | | | | | |
| fileSec | ID | fileSec001 | M | NR | Under: mets. One fileSec per METS. Contains: fileGrp | |
| fileGrp | | | M | R | Under: fileSec. fileGrp repeated, one per USE. Contains: file | |
| | ID | fileGrp001, fileGrp002 etc. | M | NR | | |
| | USE | [Värde från vcUSE_kbse] | M | NR | Under: fileGrp. Pick value from glossary ID = "vcUSE_kbse" | |
| file | | | M | R | Group files with the same USE within a fileGrp. Contains: Flocat | |
| | ID | file1, file2, file3, etc. | M | NR | Number from 1, 2, 3 etc. Prefix "file" | Note. Changed. Do not use the file name |
| | USE | | М | NR | according to vocabulary ID="vcUSE" (same as fileGrp) | |
| | MIMETYPE | text/xml | М | NR | Value according tot MIME | |
| | | image/jp2 | | | | |
| | SIZE | | M | NR | same as in premis//size | |
| | CREATED | | M | NR | YYYY-MM-DD'T'HH:mm:ss+01:00 | |
| | ADMID | | M | NR | ID for the techMD that contains metadata about the file | |
| | CHECKSUM | | M | NR | Same checksum as in premis/fixity/messageDigest | |
| | CHECKSUMTYPE | MD5 | M | NR | | |
| Flocat | LOCTYPE | URL | M | NR | Under: file. | |
| | xlink:type | simple | M | NR | | |
| | xlink:href | file:[filnamn] | М | NR | | |
| | METS: struc | etMap | | | + | |
| structMap | | | M | R | Under: mets. Is repeatable, but normally only one structMap describing how objects relate to each other "physically. Divided into a hierarchical structure using the elements div. See examples in the manual. Contains: div | |
| | ID | structMap001 | М | NR | | |
| | TYPE | physical | M | NR | value "physical" from glossary vcStructMap_TYPE_kbs | e |

| div | | | М | R | Under: structMap. Each div may contain none, one or more div. Hierarchies are built with values from dictionary vcDiv_TYPE_kbse. Contains: fptr | New name for the glossary |
|------|------------|----------------------------------------|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| | ID | div001, div002 etc. | М | NR | | |
| | TYPE | Välj från vcStructMap_TYPE _kbse | М | NR | Each div named in TYPE with a value from vcDiv_TYPE_kbse | New name for the glossary |
| | LABEL | Se Anvisningar | MA | NR | If div has the type-value page or issue and if page number for example is missing, value can be selected | |
| | ORDER | 1,2,3, etc. | М | NR | The order in which the file will appear in | |
| | ORDERLABEL | | М | NR | Text fields. Here you can add page numbering (probobly not an issue for the the newspapers) | |
| | DMDID | | M | NR | ID for the DMDID containing metadata at the level that the div element represents | |
| | ADMID | techMDXXX | М | NR | ID for techMD containing metadata representation. | |
| fptr | FILEID | file1, file2, file3, etc. | M | R | Under: div. Enter the same value as in the corresponding file@ID | Note. We have changed the value for file@ID |

| Project Digidaily: A | LTO elements and at | tributes | | | | | |
|------------------------|------------------------|-----------|--------------------|------------------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Container | Element name | Attribute | Value in attribute | Value in element | M/O | Repeat ed? | Notes/comments |
| Description | | | | | | | contain information of general character |
| | MeasurementUnit | | | string | М | N | Ska vara "mm10". Enhet för mätningarna, tiodelsmilimeter |
| | | | | | | | |
| Description | | | | | | | |
| sourcelmageInformation | | | | | | | |
| | fileName | | | string | М | N | Filnamn för fil som OCR-tolkats. Filename for file that has been OCR recognitioned |
| Description | | | | | | | |
| OCRProcessing | | ID | | | М | R | Can occur in several instances but should not do so because each file should only contain the result from one page |
| Description | | | | | | | |
| OCRProcessing | | | | | | | |
| ocrPreProcessingStep | | | | | | | Covered by MIX and Image Processing. Not included. |
| | | | | | | | |
| Description | | | | | | | |
| OCRProcessing | | | | | | | |
| ocrProcessingStep | | | | | M | N | The actual OCR interpretation may appear only in one instance (within each OCRPROcessing instance) |
| | processingDateTime | | | dateTimeType | М | N | ISO8601. A bit unsure about the format of the standard, but it must surely be best to use the same format throughout? |
| | processingAgency | | | MKC Riksarkivet | М | N | |
| | processingStepSettings | | | string | M | N | All settings for the OCR software, see examples from LoC and Australia. With these it should be possible to read the interpretation of the text and get an identical result |
| | processingSoftware | | | processingSoftwareType | М | N | Länk, see below |
| Description | | | | | | | |
| OCRProcessing | | | | | | | |
| ocrProcessingStep | | | | | | | |
| processingSoftware | | | | | | | |
| | softwareCreator | | | string | М | N | |
| | softwareName | | | string | М | N | |
| | softwareVersion | | | string | М | N | |
| | applicationDescription | | | string | MA | | Description of the key features of the software. Used for, for example Non-commercial software |
| Description | | | | | | | |
| OCRProcessing | | | | | | | |

| postProcessingStep | | | | | MA | R | Mainly applicable if OCR interpretation is followed by a manual step for eg segmentation. Can be repeated, several steps may be performed |
|--------------------|------------------------|-----------------|------------------|-----------------|----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | processingDateTime | | | dateTimeType | M | N | w3cdtf. |
| | processingAgency | | | MKC Riksarkivet | М | N | |
| | processingStepSettings | | | string | М | N | |
| | processingSoftware | | | string | М | N | Reference. Usedd by PROCESSING |
| Description | | | | | | | |
| OCRProcessing | | | | | | | |
| postProcessingStep | | | | | | R | |
| processingSoftware | | | | | | | |
| processing comment | softwareCreator | | | string | MA | N | |
| | softwareName | | | string | MA | N | |
| | softwareVersion | | | string | MA | N | |
| | applicationDescription | | | string | MA | N | Description of the key features of the software. Used for, for example Non-commercial software |
| Styles | | | | | | | Used to define the text size. Repeated for each text size that can be found in the text. Should only be integers, although floating is allowed |
| | TextStyle | ID | ID | | | R | |
| | | FONTSIZE | float | | | R | Narrow to whole and half numbers |
| Layout | | | | | | | |
| Page | | | | | M | R | An ALTO file can contain multiple pages |
| - J | PAGECLASS | HEIGHT | int | | М | | Measured in Measurement Unit (1/10 mm) |
| | | WIDTH | int | | М | | |
| | | PHYSICAL_IMG_NR | int | | М | | The page number in the publication |
| | | PRINTED_IMG_NR | string | | MA | | The printed page number. Desirable |
| | | PROCESSING | IDREF | | MA | | Link to OCRProcessing-instance. |
| | | QUALITY | list of standard | | MA | | The quality of the page for the physical original (note, no OCR) |
| | | QUALITY_DETAIL | string | | 0 | | Free text for extended description of the physical originals quality. Should be as controlled as possible, procedures must be developed |
| | | POSITION | list of standard | | MA | | left, right etc. |
| | | ACCURACY | float | | MA | | OCR, in %. Not used by the Aus or the U.S. but we believe it is desirable. |
| | | PC | float | | MA | | Page confidence. Used by the United States and Australia (but we do not understand how they use attributes when that is under Page in the standard). Also possible to use accuracy but they do not. The value is limited to the range 0-1. Should be stated. |

| | | | | | | | (Both ACCURACY and PC must be specified if the software supports |
|------------|------------|----------|-------|----------|----|---|----------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | it. If this is not the case, only the supported attribute should be |
| | | | | | | | specified) |
| Page | | | | | | | |
| | PrintSpace | HEIGHT | int | | M | | Only one print per page and file |
| | | WIDTH | int | | M | | |
| | | HPOS | int | | M | | Horizontal position |
| | | VPOS | int | | M | | Vertical position |
| | | | | | | | |
| D | | | | | | | |
| Page | | | | | | | |
| PrintSpace | T (D) | | | | | _ | |
| | TextBlock | | | | MA | R | Contiguous blocks of text, at least one per page (if the page has text). |
| | | ID | ID | | М | | |
| | | HEIGHT | int | | M | | |
| | | WIDTH | int | | M | | |
| | | HPOS | int | | M | | |
| | | VPOS | int | | M | | |
| | | ROTATION | float | | MA | | Stated if the text block is leaning and not straightened up. The value is set as degrees counterclockwise |
| Page | | | | | | | |
| PrintSpace | | | | | | | |
| TextBlock | | | | | | | |
| | TextLine | | | | MA | R | one line of text |
| | | ID | ID | | M | | |
| | | HEIGHT | int | | M | | |
| | | WIDTH | int | | М | | |
| | | HPOS | int | | M | | |
| | | VPOS | int | | М | | |
| | | | | | | | |
| Page | | | | | | | |
| PrintSpace | | | | | | | |
| TextBlock | | | | | | | |
| | language | | | language | MA | N | The language in a text block. Should only be used if there are Swedish and the OCR interpreter can detect it automatically |
| ĺ | | | | | | | |

| Page | | | | | | | |
|------------|-------------|-----------------|-------------|--------|----|---|---------------------------------------------------------------------------------------------------------------------|
| PrintSpace | | | | | | | |
| TextBlock | | | | | | | |
| TextLine | | | | | | | |
| | String | | | | MA | R | One word, separated by spaces or hyphen |
| | | ID | ID | | М | | |
| | | HEIGHT | int | | М | | |
| | | WIDTH | int | | М | | |
| | | HPOS | int | | М | | |
| | | VPOS | int | | M | | |
| | | CONTENT | string | | M | | The content (the word) in the string |
| | | STYLEREFS | IDREF | | MA | | Refer to the Text Style |
| | | SUBS_TYPE | enumeration | | MA | | Contains the whole word in hyphenation or abbreviation (HypPart1, HypPart2 and Abbreviation) |
| | | WC | float | | MA | | Word confidence |
| | ALTERNATIVE | | | string | MA | R | Includes alternative spellings that the OCR interpreter can generate. Is an element (not an attribute) under String |
| | | | | | | | |
| Page | | | | | | | |
| PrintSpace | | | | | | | |
| TextBlock | | | | | | | |
| TextLine | | | | | | | |
| | SP | | | | MA | R | Blanc spaces |
| | | ID | ID | | M | | |
| | | HEIGHT | int | | M | | |
| | | WIDTH | int | | M | | |
| | | HPOS | int | | M | | |
| | | VPOS | int | | M | | |
| | | | | | | | |
| TextLine | | | | | | | |
| | HYP | | | | MA | N | Hyphens, can only occur at the end of a line |
| | | ID | ID | | M | | |
| | | HEIGHT | int | | M | | |
| | | WIDTH | int | | M | | |
| | | HPOS | int | | M | | |
| | | VPOS CONTENT | int | | M | | I harbana manulaali diffanant |
| | | CONTENT | string | | M | | Hyphens may look different. |

| Project D | igidaily: Glossary | | | Updated 2012-07 | 7-10 | |
|-----------|--------------------|--------------|--------------------|-------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Scheme | Element name | Attribute | Value in attribute | Agreed value in element | Reference | Comments |
| METS | | | | | | |
| | metsHdr | RECORDSTATUS | REPLACEMENT | | vcRECORDSTATUS_kbse | |
| | | | SUPPLEMENT | | _ | |
| | | | VERSION | | | |
| | agent | ROLE | CREATOR | | SWEIPB | |
| | | | ARCHIVIST | | SWEIPB | |
| | | | | Riksarkivet/MKC | | |
| | name | ROLE | | | SWEIPB | |
| | | TYPE | ORGANIZATION | | SWEIPB | |
| | name | | | Kungliga biblioteket | | |
| | | | | | | |
| | dmdSec | LABEL | Primary | | vcDmdSec_LABEL_kbse | |
| | | | Local | | vcDmdSec_LABEL_kbse | |
| | fileGrp | USE | | | | |
| | file | | image/master | | vcUSE_kbse | image file only intended for long term preservation |
| | | | image/reference | | vcUSE_kbse | image file intended for display (used when master file is also used for display) |
| | | | image/dynamic | | vcUSE_kbse | image file with dynamic characteristics for display (used when master file is also used for display) |
| | | | text/alto | | vcUSE_kbse | ALTO |
| | | | text/performance | | vcUSE_kbse | File that contains the results of quality measurement |
| | | | text/pdf | | vcUSE_kbse | text file in PDF format |
| | | | text/metadata | | vcUSE_kbse | added 20110301 :) file that contains metadata such as original metadata from the supplier. Used internally for KB |
| | | MIMETYPE | | | MIME type, http://www.iana.org/assignme nts/media-types/ | |
| | | | image/jp2 | | | |
| | | | text/xml | | | |

| | structMap | TYPE | | | | |
|------|---------------|-----------|--------------|-----------------------|-----------------------------------------|---------------------------------------------------------------------------------------------|
| | | | physical | | vcSTRUCTMAP_TYPE_kbs | е |
| | | | logical | | vcSTRUCTMAP_TYPE_kbs | e |
| | div | TYPE | | | | |
| | | | files | | vcDiv_TYPE_kbse | |
| | | | issue | | vcDiv_TYPE_kbse | |
| | | | pdf | | vcDiv_TYPE_kbse | |
| | | | section | | vcDiv_TYPE_kbse | |
| | | | page | | vcDiv_TYPE_kbse | |
| | | | supplement | | vcDiv_TYPE_kbse | |
| | | | newsbill | | vcDiv_TYPE_kbse | |
| | | | performance | | vcDiv_TYPE_kbse | |
| | | | origmetadata | | vcDiv_TYPE_kbse | added 20110301. Internaly for KB |
| | div | LABEL | missingpage | | vcDiv_LABEL_kbse | "tom sida" replace missing page. |
| | | | missingissue | | vcDiv_LABEL_kbse | "tom sida" replace a missing newspaper number |
| | | | damagedpage | | vcDiv_LABEL_kbse | Page with "broken" content |
| | | | misplaced | | vcDiv_LABEL_kbse | page that is misplaced / unknown - sorted in the end |
| MODS | | | | | | |
| | edition | | | [edition designation] | Unik lista för varje värdpublikation | |
| | dateIssued | qualifier | approximate | | MODS | a date that may not be exact, but is approximated, such as "ca. 1972". |
| | | | inferred | | MODS | a date that has not been transcribed directly from a resource, such as "[not before 1852]". |
| | | | questionable | | MODS | a questionable date for a resource, such as "1972?". |
| | digitalOrigin | | | reformatted digital | MODS | Digitization of printed original |
| | | | | digitized microfilm | MODS | Digitization from microfilm |
| | | | | born digital | MODS | |
| | note | type | reproduction | [text] | Unik lista byggs upp efter behov | |

| | | | script | gothic | vcScriptType_kbse | The text in the original is in fracture-style. |
|--------|--------------------|------|-------------|--------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------|
| | | | | roman | vcScriptType_kbse | The text in the original is in antikva-style. |
| | | | | mixed | vcScriptType_kbse | The text in the original contain both fracture and antikva |
| | | | condition | [Position 4 in preparation codefrom Signe] | | Note about the originals physical condition |
| | identifier | tuno | uri | [one uri] | MODS | URL, URN, etc. |
| | laentiller | type | | | | URL, URN, etc. |
| | | | local | [unspecified] | MODS | |
| | | | issn | | MODS | |
| | | | reel number | [number of the mircofilm] | Signe | |
| | physicalLocation | | | [Library sigel] | | Exampel: S |
| | | | | | | |
| | topic | | | [Category Words that describe the content of he attachement] | bilagetyp_kbse | Locla topic list |
| | | | | | | |
| | genre | | | supplement | genreterm_kbse | |
| | | | | section | genreterm_kbse | |
| | | | | newsbill | genreterm_kbse | |
| | | | | project | genreterm_kbse | |
| | | | | issue | marcgt | |
| | | | | newspaper | marcgt | |
| | roleTerm | | | supplier | roleterm_kbse | |
| | | | | publisher | marcrelator | |
| PREMIS | | | | | | |
| | formatName | | | JPEG2000 | PRONOM, http://http://www.nationalarchi ves.gov.uk/PRONOM/ | |
| | | | | Extensible Markup Language | | |
| | formatRegistryName | | | PRONOM | PRONOM, http://http://www.nationalarchi ves.gov.uk/PRONOM/ | |

| formatRegistryKey x-fmt/392 PRONOM, http://fmtp./www.nationalarchi yes.gov.uk/PRONOM fmt/101 Loompressed Uncompressed NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed JPEG Baseline sequential JPEG 2000 lossless ColorSpace RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed ColorSpace RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed ColorSpace RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed In the properties of the used of th | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|------------------------|------------------------------------------------------|--------------------------------------------------------|
| http://http://www.natonalarchives.gov.uk/PRONOM/ wes.gov.uk/PRONOM/ mix compressionScheme Uncompressed NISO Z99.87-2006 Selection). If additional values must be used, a separate list is needed LZW JPEG Baseline sequential JPEG 2000 lossy JPEG 200 | | | | | |
| MIX | | formatRegistryKey | x-fmt/392 | | |
| MIX compressionScheme Uncompressed LZW JPEG Baseline sequential JPEG 2000 lossy ColorSpace RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Integral to be used and it is needed. (In | | | | http://http://www.nationalarchi | |
| MIX compressionScheme Uncompressed Uncompressed NISO 239.87-2006 (Selection). If additional values must be used, a separate list is needed JPEG Baseline sequential JPEG 2000 lossy JPEG 2000 lossless colorSpace RGB NISO 239.87-2006 (Selection). If additional values must be used, a separate list is needed SRGB CIELab Liab CMYK YCbCr Other (replace with appropriate value) iccProfileName iccProfileName codecVersion CodecVersion CodecVersion CodecVersion CodecVersion CodecVersion Cofficient in the same values as the digital Origin] NISO 239.87-2006 (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. (Selection). If additional values must be used, a separate list is needed. | | | | ves.gov.uk/PRONOM/ | |
| compressionScheme Uncompressed NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed LZW JPEG Baseline sequential JPEG 2000 lossy JPEG 2000 lossless colorSpace RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed s RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed s RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed colorSpace RGB NISO Z39.87-2006 (Selection), If additional values must be used, a separate list is needed (Selection), If additional values must be used, a separate list is needed (Selection), If additional values must be used, a separate list is needed (ILab CMYK YCbCr Other CMYK YCbCr Other (replace with appropriate value) (coProfileName (replace with appropriate value) (coProfileVersion (Unique list along with the version number) (codecVersion (Unique list to be expanded as needed) codecVersion (Unique list, the same values as the digital/Origin) http://www.loc.gov/standards/mix/mix20/mix20/ssd | | | fmt/101 | | |
| LZW JPEG Baseline sequential JPEG 2000 lossy JPEG 2000 lossy JPEG 2000 lossless ColorSpace RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed sequential SRGB CIELab CMYK YCDGC Other (replace with appropriate value) IccProfileName IccProfileVersion IcCPro | MIX | | | | |
| JPEG Baseline sequential JPEG 2000 lossy JPEG 2000 lossy JPEG 2000 lossless RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed SRGB (Selection). If additional values must be used, a separate list is needed CIELab Lab Lab CMYK YCbCr Other (replace with appropriate value) IccProfileName IcCProfileVersion IcCProfileVersion CodecVersion CodecVersion IUnique list along with the version number] CodecVersion IUnique list to be expanded as needed] SourceType IUnique list, the same values as the digital(Origin) Inttp://www.loc.gov/standards/mix/mix20/mix20.xsd | | compressionScheme | Uncompressed | | |
| sequential JPEG 2000 lossy JPEG 2000 lossyes ColorSpace RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed CIELab CIELab COLELab COMYK COCOC COMPY COCOC COMPY COCOC CORPOSITION COPTOSILEVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COMPT | | | LZW | | |
| sequential JPEG 2000 lossy JPEG 2000 lossyes ColorSpace RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed CIELab CIELab COLELab COMYK COCOC COMPY COCOC COMPY COCOC CORPOSITION COPTOSILEVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COGECVERSION COMPT | | | JPEG Baseline | | |
| IPEG 2000 lossy JPEG 2000 lossless | | | | | |
| Depends on the workflow of MKC and restrictions in JPEG 2000 lossless Incorporation (Incorporate value) Incorporate value) Incorporate value (Incorporate value) Inc | | | | | |
| colorSpace RGB NISO Z39.87-2006 (Selection). If additional values must be used, a separate list is needed RGB CIELab Lab CMYK YCbCr Other (replace with appropriate value) iccProfileName [Unique list along with the version number] codecVersion CodecV | | | · · | | |
| sRGB CIELab Lab CMYK YCbCr Other (replace with appropriate value) iccProfileName (codecVersion CodecVersion | | | JFEG 2000 10551655 | | |
| sRGB CIELab Lab CMYK YCbCr Other (replace with appropriate value) iccProfileName (codecVersion CodecVersion | | | | | |
| CIELab Lab CMYK CMYK YCbCr Other [Unique list along with the version number] codecVersion codecVersion codecVersion codecVersion [Unique list to be expanded as needed] codecVersion [Unique list, the same values as the digitalOrigin] first the same value as as the digitalOrigin] http://www.loc.gov/standards/mix/mix/20/mix20.xsd Lab CMYK CMYK CMYK Creptace with appropriate value) Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on the workflow of MKC and restrictions in JPEG Depends on | | colorSpace | RGB | NISO Z39.87-2006 | |
| Lab CMYK YCBCr Other (replace with appropriate value) iccProfileName (ccProfileVersion CodecVersion CodecVer | | | sRGB | | |
| Lab CMYK YCBCr Other (replace with appropriate value) iccProfileName (ccProfileVersion CodecVersion CodecVer | | | CIELab | | |
| CMYK YCbCr Other (replace with appropriate value) iccProfileName [Unique list along with the version number] codecVersion [Unique list to be expanded as needed] codecVersion [Unique list to be expanded as needed] codecVersion [Unique list, the same values as the digitalOrigin] forientation http://www.loc.gov/standards/mix/mix20/mix20.xsd CMYK YCbCr (replace with appropriate value) Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends on the workflow of MKC and restrictions in JPEG 2000 Depends o | | | | | |
| YCbCr Other (replace with appropriate value) | | | | | |
| Other (replace with appropriate value) iccProfileName [Unique list along with the version number] Depends on the workflow of MKC and restrictions in JPEG 2000 iccProfileVersion [Unique list to be expanded as needed] [Unique list to be expanded as needed] codecVersion [Unique list, the same values as the digitalOrigin] orientation http://www.loc.gov/standards/mix/mix20/mix20.xsd | | | | | |
| iccProfileName [Unique list along with the version number] [Unique list along with the version number] [Unique list to be expanded as needed] [Unique list, the same values as the digitalOrigin] [Unique list, the same values as the digitalOrigin] [Inique list, the same values as the digitalOrigin] [Unique list, the same values as the digitalOrigin] | | | | | |
| version number] 2000 iccProfileVersion | | | Other | | (replace with appropriate value) |
| iccProfileVersion codecVersion [Unique list to be expanded as needed] codecVersion [Unique list, the same values as the digitalOrigin] orientation http://www.loc.gov/standards/mix/mix20/mix20.xsd | | iccProfileName | | [Unique list along with the | |
| codecVersion [Unique list to be expanded as needed] codecVersion [Unique list to be expanded as needed] sourceType [Unique list, the same values as the digitalOrigin] orientation http://www.loc.gov/standards/mix/mix20/mix/20.xsd | | | | version number] | 2000 |
| as needed] codecVersion sourceType [Unique list, the same values as the digitalOrigin] orientation http://www.loc.gov/standards/mix/mix20/mix20.xsd | | iccProfileVersion | | | |
| as needed] codecVersion sourceType [Unique list, the same values as the digitalOrigin] orientation http://www.loc.gov/standards/mix/mix20/mix20.xsd | | and a Mana's a | | Blaires Patta ba assaula d | |
| sourceType [Unique list, the same values as the digitalOrigin] orientation [Unique list, the same values as the digitalOrigin] http://www.loc.gov/standards/mix/mix20/mix20.xsd | | | | | |
| values as the digitalOrigin] orientation http://www.loc.gov/standards/mix/mix20/mix20.xsd | | codecVersion | | | |
| values as the digitalOrigin] orientation http://www.loc.gov/standards/mix/mix20/mix20.xsd | | sourceType | [Unique list, the same | | reformatted digital, digitized microfilm, born digital |
| mix/mix20/mix20.xsd | | | values as the | | |
| mix/mix20/mix20.xsd | | | | | |
| | | orientation | | http://www.loc.gov/standards/ mix/mix20/mix20.xsd | |
| | | | normal | | |

| | | normal, image flipped | | |
|-----------------------------|--------|---------------------------------------|----------------------------------------|-------------------------------------|
| | | normal, rotated 180 | | |
| | | normal, image flipped, | | |
| | | rotated 180 | | |
| | | normal, image flipped, | | |
| | | rotated cw 90 | | |
| | | normal, rotated ccw 90 | | |
| | | | | |
| | | normal, image flipped, rotated ccw 90 | | |
| | | normal, rotated cw 90 | | |
| | | normal, rotated cw 90 | | |
| | | unknown | | |
| | | | | cw=clockwise; ccw=counterclockwise; |
| imageProducer | | MKC Riksarkivet | | |
| | | | | |
| scannerManufacturer | | | [Unique list to be expanded | |
| | | | as needed] | |
| | | | | |
| scannerModelName | | | [Unique list to be expanded | |
| | | | as needed] | |
| scannerModelNumber | | | [Unique list to be expanded | |
| | | | as needed] | |
| | | | | |
| scanningSystemSoftwareName | 9 | | [Unique list to be expanded | |
| | au Nia | | as needed] | |
| scanningSystemSoftwareVersi | ONNO | | [Unique list to be expanded as needed] | |
| | | | as neededj | |
| digitalCameraManufacturer | | | [Unique list to be expanded | |
| digitalCameralwandiacturei | | | as needed] | |
| | | | ao noododj | |
| digitalCameraModelName | | | [Unique list to be expanded | |
| a.g.taroamoramoach vario | | | as needed] | |
| digitalCameraModelNumber | | | [Unique list to be expanded | |
| | | | as needed] | |
| | | | | |
| isoSpeedRatings | | | ISO12232 | |
| exifVersion | | | EXIF 2.2 | |

| | lightsource | | EXIF 2.2 | |
|------|--------------------------------|---------------------|----------------------------------------|---------------------------------------|
| | autofocus | | EXIF 2.2 | |
| | | | | |
| | samplingFrequencyUnit | The numbers 1, 2, 3 | NISO Z39.87-2006 | 1 = no unit, 2 = inch, 3 = centimeter |
| | | | | |
| | targetType | The numbers 0 och 1 | NISO Z39.87-2006 | 0=external, 1=internal |
| | to and the same of a stress of | | Miletone Patrick has some and ad- | |
| | targetManufacturer | | [Unique list to be expanded as needed] | |
| | targetName | | [Unique list to be expanded as needed] | |
| | processingAgency | | MKC Riksarkivet | + |
| | processingRationale | | [Unique list to be expanded as needed] | |
| | processingSoftwareName | | [Unique list to be expanded as needed] | |
| | processingSoftwareVersion | | [Unique list to be expanded as needed] | |
| | processingActions | | [Unique list to be expanded as needed] | |
| ALTO | | | | |
| | processingAgency | MKC Riksarkivet | | |
| | processingStepSettings | | [Unique list to be expanded as needed] | |
| | processingSoftware | | [Unique list to be expanded as needed] | |
| | softwareCreator | | [Unique list to be expanded as needed] | |
| | softwareName | | [Unique list to be expanded as needed] | |
| | softwareVersion | | [Unique list to be expanded as needed] | |
| | applicationDescription | | [Unique list to be expanded as needed] | |
| | processingAgency | MKC Riksarkivet | | |

| | processingStepSettings | | [Unique list to be expanded as needed] | |
|------------|------------------------|------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| | processingSoftware | | [Unique list to be expanded as needed] | |
| | QUALITY_DETAIL | | [Unique list to be expanded as needed] | |
| JPEG2000 | XML-box | | | Should contain the parameters that were used when the file was created. |
| Noteringar | | | | |
| | ISO8601 | yyyymmdd | | Several different formatting options are used in the standard, the current here is what is called "basic" |
| | w3cdtf | yyyy-mm-dd | | Profile of ISO8601 which adds the "-" between the numbers, http://www.w3.org/TR/NOTE-datetime |



File naming convention for Digidaily

All filenames start with the prefix bib (file names beginning with a digit is not allowed).

libris = libris numbers for host publication (not including the entry for the digital code or the printed original), preceded by the prefix "bib".

yyyymmdd = date of the printed Journal number, as specified in field date in METS file

edition = edition designation as unique. The list is constructed by the Newspaper Unit at KB. The original edition designation can not be stored in the filename as the name often contains characters that are not allowed (eg "*"). For each host publication therefore, a translation between the edition number and a serial number is provided. An edition designation must always be mentioned in all file names. The project Digidaily normally digitize the main edition. If the edition name is missing, the edition is always indicated by the number 0 if no other instructions are given. If more than one edition are digitized, instructions will always accompany the newspapers if other newspaper than the main edition lacks edition designation. This means that the MKC does not need to record where the edition name is missing because this work is done at KB.

number = newspaper's serial number, as specified in field part/number of the METS file. If the number name missing enter the letter P

METS-file

In Mimer (KB's ingest and storage platform that is currently being developed), you want a consistent naming convention for files that contain metadata so that the system can easily recognize them. The names shall be designed so that the metadata file should not be confused with other files. It has been decided to replace the fileextension ". Xml", with the ". [Name of the metadata standard]. Metadata".

libris_yyyymmdd_edition_number.mets.metadata

Example

bib4112678_18760203_1_24.mets.metadata (standard case)

bib4112678_18760203_0_24.mets.metadata (missing edition designation on the main edition)

bib4112678_18760203_1_s.mets.metadata (missing number name)



Image file

libris_yyyymmdd_edition_number_serialnumber_fileversion.jp2

serialnumber = sequence number for the image in the Journal number fileversion = m and r (for master and reference). If master- and display file are combined, then the image file are named as the master file

Example bib4112678_18760203_1_24_8_m.jp2

Pdf-file

libris_yyyymmdd_edition_number_pdf.pdf

Example bib4112678_18760203_1_24_pdf.pdf

ALTO-file

libris_yyyymmdd_edition_number_serialnumber_alto.xml

Example bib4112678_18760203_1_24_8_alto.xml

Performance-file

(This file type contains information about the image quality)

libris_yyyymmdd_edition_number_performance.xml

Example bib4112678_18760203_1_24_performance.xml

ObjektID

Each package must have a unique objectID which is registered in the attribute OBJID in the field mets in the Mets file. This id has the same structure as the file name.

libris_yyyymmdd_edition_number

Example bib4112678_18760203_1_24



Instruction for missing page/missing number

| Datum | Ändring | Ändrad av |
|-------|---------|-----------|
| | | |
| | | |
| | | |

Missing page

If a page is missing, a image should be inserted containing the newspapers title, publication date, and the text "Missing Page". If possible, also include page numbers in the image. The image file should have the same dimensions as the other images derived from the journal number.

The inserted image is treated as an ordinary image file, both in terms of metadata and the file name. Some technical metadata will obviously be missing. In structMap the page is assigned a LABEL with the value "missing page".

A ALTO file is created for the missing page. The file need only to include the data stored in the tag <sourceImageInformation>.

Missing number

If a whole number is missing, still a SIP should be constructed according to specification. The package will contain a single image file that shows the newspaper's title, publication date, and the text "Missing number". The image file should have similar dimensions as the image files derived from the equipment in which the newspaper would likely to have been captured . All bibliographic metadata in code level is handled as usual. Since the only image file is not captured in the usual way, however, some metadata fields are left blank (eg technical metadata).

The inserted image is treated as a regular image file. As the edition in the filename the main edition is specified unless otherwise announced. In structMap the image file is assigned a LABEL with the value "missingissue"