

EMWIS

Metadata

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Information on this document

Disclaimer

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Purpose of this document

This document presents the metadata of Emwis resources.

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Document version Modification description:

Document version	Status	Modification description
1.0	Draft	Some text corrections and Annex
0.5	Draft	Namespaces ut* replaced by ut replace in all types of resources the element type by: type_new, type_event, type_law , type_multimedia, type_document)
0.4	Draft	Adding a column to identify searchable elements Adding the element file_link_local in all the metadata structures (to provide alternative location of file, e.g. local copy) Modification of the structure "Text of Laws"

1. Why Using Metadata:

For information resources, metadata are used for:

- Describing the resource
- Facilitating search
- Location
- Management
- Without metadata it would be difficult to manage or search for some resources (e.g. images, videos, etc)
- Necessary for Content Management Systems: classification, archiving, etc.
- Allowing customisation of user interfaces: Linked to user profiles
- Extending search criteria beyond the classical keywords.
- Providing information necessary for the administrative and technical management of the resources: date, rights.
- Facilitating exchanges and integration of data

2. Metadata for EMWIS:

We need to access information available on water that is coming from different remote and heterogeneous sources:

- Identification of the information available in the Euro-Med domain
- Accessing this information
- Allow the international community to access the services developed by EMWIS

For TU, this information is provided by:

- NFP
- International partners (Projects, INBO...)

For NFP, this information is provided by:

- National partners
- TU

In this case, Common metadata are needed to exchange and integrate content.

3. Types of resources

O: Optional

R: Recommended

M: Mandatory

S: searchable

NS: not searchable

S(Q) means that the elements used in the search of words are typed in query

S(L) means that the user chooses the value of the element among a list of values.

1. News :

Metadata	Namespace	Type	description	Recommendation	Search
creator	dc	String	author name: An entity primarily responsible for making the content of the resource	O	NS
creator_mail	ut	String	Mail of the creator	O	NS
contact_name	ut	String	A person to be contacted for more information	O	NS
contact_mail	ut	String	Mail of the contact person	O	NS
contact_phone	ut	String	Phone number of the contact	O	NS
rights	dc	String	Information about rights held in and over the resource	O	NS
title	dc	String	A name given to the resource	M	S (Q)
type_new	ut	List: Nomination CallForPaper Procurement Vacancies Inbrief	The nature or type of the content of the resource	R	S (L)
format	dc	String	The physical or digital manifestation of the resource	O	NS
identifier	dc	String	An unambiguous reference to the resource within a given context (URL)	O	NS
file_link	ut	url	link of the file which describes the resource	R	NS
file_link_local	ut	url	link of the file which is a copy of the resource description	R	NS
source	dc	String	A Reference to a resource from which the present resource is derived	R	NS
source_link	ut	url	Link of the source	R	NS
language	dc	String	A language of the intellectual content of the resource	O	S(L)
keywords	ut	String (list if thesaurus)	terms, the best from the thesaurus	O	S(Q)
description	dc	String	An account of the content of the resource	O	S(Q)
subject	dc	List	A topic of the	O	NS

Metadata

			content of the resource		
relation	dc	String	A reference to a related resource	O	NS
coverage	dc	List	The extent or scope of the content of the resource	R	NS
news_date	dc	YYYY-MM-DD	A date of an event in the lifecycle of the resource	M	S
save_date	ut	YYYY-MM-DD	Date of last update of news	R (automatically)	NS

Events :

Metadata	Namespace	Type	description	Recommendation	Search
creator	dc	String	An entity primarily responsible for making the content of the resource	O	NS
creator_mail	ut	String	Mail of the creator	O	NS
contact_name	ut	String	A person to be contacted for more information	O	NS
contact_mail	ut	String	Mail of the contact person	O	NS
contact_phone	ut	String	Phone number of the contact		NS
rights	dc	String	Information about rights held in and over the resource	O	NS
title	dc	String	A name given to the resource	M	S (Q)
type_event	ut	List: Seminar Conference Econference Training Visits	The nature or type of the content of the resource	R	S (L)
format	dc	String	The physical or digital manifestation of the resource	O	NS
keywords	ut	String (list if thesaurus)	terms, the best from the thesaurus	O	S(Q)
description	dc	String	An account of the content of the resource	R	S(Q)
identifier	dc	String	An unambiguous reference to the resource within a given context	O	NS
file_link	ut	url	link of the file which describes the resource	R	NS
file_link_copy	ut	url	link of the file which is a copy of the resource description	R	NS
source	dc	String	A Reference to a resource from	R	NS

Metadata

			which the present resource is derived		
source_link	ut	url	Link of the source	R	NS
language	dc	list	A language of the intellectual content of the resource	O	S(L)
subject	dc	list	A topic of the content of the resource	O	NS
relation	dc	String	A reference to a related resource	O	NS
coverage	dc	list	The extent or scope of the content of the resource	M	NS
organizer	ut	String	The organizers of the event	R	NS
geozone	ut	List: National International Regional	Target participants	R	S(L)
address	ut	String	Address of the event	R	NS
duration	ut	Duration	Duration of the event	R	NS
start_date	ut	YYYY-MM-DD	Start date event	M	S
end_date	ut	YYYY-MM-DD	End date event	R	S
date	dc	YYYY-MM-DD	Date of last update of event publication	O	NS
status_event	ut	List: Tentative Confirmed Cancelled		R	S(L)

Texts of laws:

Type	Namespace	value	description	Recommendation	Search
title	dc	String	A name given to the resource	Ob	S(Q)
type_law	ut	List: Law Decree Resolution Decision Agreement Directive Recommendation Charter Declaration Convention	The nature or type of the content of the resource	R	NS
identifier	dc	String	An unambiguous reference to the resource within a given context	O	NS
file_link	ut	url	link of the file which describes the resource	R	NS
file_link_local	ut	url	link of the file which is a copy of the resource	R	NS

Metadata

			description		
official_journal_ref	ut	String	A Reference to an Official Journal where the content was published	O	S(Q)
source	dc	String	A Reference to a resource from which the present resource is derived	R	NS
source_link	ut	url	Link of the source	R	NS
language	dc	String	A language of the intellectual content of the resource	O	S(L)
format	dc	String	The physical or digital manifestation of the resource	O	NS
keywords	ut	String (list if thesaurus)	terms, the best from the thesaurus	O	S(Q)
description	dc	String	An account of the content of the resource	R	S(Q)
subject	dc	list	A topic of the content of the resource	O	NS
relation	dc	String	A reference to a related resource	O	NS
coverage	dc	list	The extent or scope of the content of the resource	O	NS
date	dc	YYYY-MM-DD	A date of an event in the lifecycle of the resource	R	S
geozone	ut	Euro National International	Coverage of text of law	R	S(L)
original_language	ut	String	The original language of the text	R	NS
statute	ut	List: Draft Final	Status of text	R	S(L)

Multimedia:

Type	Namespace	value	description	Recommendation	Search
creator	dc	String	An entity primarily responsible for making the content of the resource	O	NS
creator_mail	ut	String	Mail of the creator	O	NS
rights	dc	String	Information about rights held in and over the resource	O	NS
title	dc	String	A name given to the resource	M	S (Q)

Metadata

type_multimedia	ut	List: Video Photos Audio Map	The nature or genre of the content of the resource	R	S (L)
format	dc	String	The physical or digital manifestation of the resource	O	NS
identifier	dc	String	An unambiguous reference to the resource within a given context	O	NS
file_link	ut	url	link of file which describes the resource	R	NS
file_link_local	ut	url	link of the file which is a copy of the resource description	R	NS
source	dc	String	A Reference to a resource from which the present resource is derived	M	NS
source_link	ut	url	Link of the source	R	NS
language	dc	list	A language of the intellectual content of the resource	O	S(L)
keywords	ut	String (list if thesaurus)	terms, the best from the thesaurus	O	S (Q)
description	dc	String	An account of the content of the resource	R	S (Q)
subject	dc	List	A topic of the content of the resource	O	NS
relation	dc	String	A reference to a related resource	O	S(L)
coverage	dc	List	The extent or scope of the content of the resource	O	NS
date	dc	YYYY-MM-DD	A date of an event in the lifecycle of the resource	O	S

Document:

Type	Namespace	value	description	Recommendation	Search
creator	dc	String	An entity primarily responsible for making the content of the resource	O	NS
creator_mail	ut	String	Mail of the creator	O	NS
publisher	dc		The person who published the resource	O	NS
rights	dc	String	Information about rights held in and over the resource	O	NS
title	dc	String	A name given to the resource	M	S(Q)

Metadata

type_document	ut	List: Proceedings Report Newsletter Brochure PressArticle Book WorkingPaper SlideShow	The nature or type of the content of the resource	R	S(L)
format	dc	String	The physical or digital manifestation of the resource	O	NS
identifier	dc	String	An unambiguous reference to the resource within a given context	O	NS
file_link	ut	url	link of the file which describes the resource	R	NS
file_link_local	ut	url	link of the file which is a copy of the resource description	R	NS
source	dc	String	A Reference to a resource from which the present resource is derived	M	NS
source_link	ut	url	Link of the source	O	NS
language	dc	String	A language of the intellectual content of the resource	O	S(L)
keywords	ut	String (list if thesaurus)	terms, the best from the thesaurus	O	S(Q)
description	dc	String	An account of the content of the resource	R	S(Q)
subject	dc	list	A topic of the content of the resource	O	NS
relation	dc	String	A reference to a related resource	O	NS
coverage	dc	list	The extent or scope of the content of the resource	O	NS
date	dc	YYYY-MM-DD	A date of an event in the lifecycle of the resource	O	S

Element: language

Recommended best practice is to use RFC 3066

<http://www.iso.org/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/list-en1.html>

Element: coverage

Code 2 lettres :

<http://www.univ-paris12.fr/~sirius/iso3166.html>

Element: topic

Preliminary list of values will amended according to the major Mediterranean water priorities

AGRICULTURE
LAND SETUP
WATER ARRANGEMENT
ANALYSIS & TESTS
BIOCHEMISTRY-CHEMISTRY
SLUDGE
CLIMATOLOGY
QUALITY MONITORING- ENTERPRISE
RIGHT
BREEDING & AQUACULTURE
ENERGY
ENVIRONMENT
FAUNA
FINANCE-ECONOMY
FLORA
CIVIL ENGINEERING
GEOLOGY
HYDRAULICS, HYDROLOGY
HYDROGEOLOGY
INDUSTRY
INFORMATION- COMPUTER SCIENCES
MEASUREMENT AND INSTRUMENTATION
METHODS AND STATISTICS
NATURAL MEDIUM
CHARACTERISTICS OF WATER AND SLUDGE
POLICY
WATER POLICY & WATER MANAGEMENT
POLLUTANTS
PREVENTION AND NUISANCES POLLUTION
COMMON PURIFICATION AND TREATMENT PROCESS
STRICTS TREATMENT PROCESS (DRINKING WATER)
STRICTS PURIFICATION PROCESS
WATER QUALITY
NETWORKS PIPES
RESOURCE CATCHMENT AND WATER DISTRIBUTION
RISKS
HEALTH- HYGIENE- PATHOGENIC MICROORGANISM
EXACT SCIENCES AND HUMANITIES
TOURISM-SPORT-HOBBY
WATER TYPOLOGY

Annex

1- An example of news metadata:

```
= <item rdf:about="http://www.emwis.net/thematicdirs/news/snews931864">
<link>http://www.emwis.net/thematicdirs/news/snews931864</link>
  <dc:title>Jordan - Zara-Maain water project to begin operation this
  month</dc:title>
  <dc:identifier>http://www.emwis.net/thematicdirs/news/snews931864</dc:identi
  fier>
  <dc:date>2006-08-25T00:00:00Z</dc:date>
  = <dc:description>
    = <![CDATA[
    The Zara-Maain project for water treatment and desalination will start
    operating by 25 per cent of its capacity in the second half of this
    month,
    according to officials at the Ministry of Water and Irrigation. The
    project,
    which would provide the country with 40 million cubic metres of water
    annually, is expected to start operating at total capacity at the end
    of
    this year.
    ]]>
  </dc:description>
  <dc:contributor>admin</dc:contributor>
  <dc:language>fr</dc:language>
  <dc:coverage>Jordan</dc:coverage>
  <dc:subject>water treatment and desalination</dc:subject>
  <dc:rights />
  <dc:type>Text</dc:type>
  <dc:format>text/html</dc:format>
  <dc:source>The Middle East's E-newsletter For The Water Industry</dc:source>
  <dc:creator />
  <dc:publisher>Unité Technique du SEMIDE</dc:publisher>
  <dc:relation />
  <dc:subject>EAU POTABLE ET ASSAINISSEMENT : PROCEDES COMMUNS
  EPURATION ET TRAITEMENT</dc:subject>
  <ut:keywords>water treatment and desalination</ut:keywords>
  <ut:creator_mail />
  <ut:contact_name />
  <ut:contact_mail />
  <ut:contact_phone />
  <ut:news_type>Inbrief</ut:news_type>
  <ut:file_link>http://www.middleeastelectricity.com/upl_images/news/Jordan%2
  0-%20Zara-
  Maain%20water%20project%20to%20begin%20operation%20this%20month.
  PDF</ut:file_link>
  <ut:file_link_local />
```

```

<ut:source_link>http://www.middleeastelectricity.com/water/water.html</ut:source_link>
<ut:start_date>2006-08-07T00:00:00Z</ut:start_date>
<ut:save_date>2006-10-12T14:15:13Z</ut:save_date>
</item>

```

2- An example of events metadata:

```

- <item rdf:about="http://www.emwis.net/thematicdirs/events/sev502532">
  <link>http://www.emwis.net/thematicdirs/events/sev502532</link>
  <dc:title>3rd Regional Workshop on Water and Sustainable Development in The
    Mediterranean: Monitoring progress and promotion of water demand
    management policies</dc:title>
  <dc:identifier>http://www.emwis.net/thematicdirs/events/sev502532</dc:identifier>
  <dc:date>2006-09-27T00:00:00Z</dc:date>
  - <dc:description>
    - <![CDATA[
      The Plan Bleu announced the 3rd regional workshop on water and sustainable
      development in the Mediterranean that Plan Bleu and its partners were
      tasked
      with organising under the aegis of the Mediterranean Commission for
      Sustainable Development. This workshop, following the Fréjus (1997) and
      Fiuggi (2002) workshops, has been scheduled for 19-21 March 2007 in
      Zaragoza
      (Spain). It will focus on monitoring progress and promotion of water
      demand
      management policies in the Mediterranean. Between 50 and 100 participants
      are
      likely to attend. &lt;br /&gt;
      &nbsp;Papers are invited from professional and local experts
      (companies,
      local authorities, farmers, protected area managers, NGOs), technical
      institute and university experts, experts from specialized Mediterranean
      networks in the fields of water, agriculture, urban settlements,
      industry,
      the environment, experts from financing and co-operation agencies.
    ]]>
  </dc:description>
  <dc:contributor>jauad</dc:contributor>
  <dc:language>en</dc:language>
  <dc:coverage>Spain</dc:coverage>
  <dc:subject>water demand management policies</dc:subject>
  <dc:rights />
  <dc:type>Event</dc:type>
  <dc:format>text/html</dc:format>
  <dc:source>Blue Plan</dc:source>

```

```

<dc:creator>Jauad El Kharraz</dc:creator>
<dc:publisher>EMWIS Technical Unit</dc:publisher>
<dc:relation>initiatives/map/foI552502</dc:relation>
<dc:subject>POLICY-WATER POLICY AND WATER MANAGEMENT</dc:subject>
<dc:subject>WATER DEMAND</dc:subject>
<ev:startdate>2007-03-19T00:00:00Z</ev:startdate>
<ev:enddate>2007-03-21T00:00:00Z</ev:enddate>
<ev:organizer>Blue Plan</ev:organizer>
<ev:type>Conference</ev:type>
<ut:keywords>water demand management policies</ut:keywords>
<ut:creator_mail>jauad.el-kharraz@semide.org</ut:creator_mail>
<ut:contact_name>Gaëlle THIVET and Mohammed BLINDA</ut:contact_name>
<ut:contact_mail />
<ut:contact_phone />
<ut:event_type>Conference</ut:event_type>
<ut:file_link>../PDF/20060319_Plan_Bleu_EN</ut:file_link>
<ut:file_link_copy>../PDF/20060319_Plan_Bleu_FR</ut:file_link_copy>
<ut:source_link>http://www.planbleu.org</ut:source_link>
<ut:organizer>Blue Plan</ut:organizer>
<ut:geozone>International</ut:geozone>
<ut:address>Zaragoza</ut:address>
<ut:duration>3 days</ut:duration>
<ut:start_date>2007-03-19T00:00:00Z</ut:start_date>
<ut:end_date>2007-03-21T00:00:00Z</ut:end_date>
<ut:event_status>Confirmed</ut:event_status>
</item>

```

3- An example of documents metadata:

```

=<item rdf:about="http://www.emwis.net/documents/database/sdc962425">
<link>http://www.emwis.net/documents/database/sdc962425</link>
<dc:title />
<dc:identifier>http://www.emwis.net/documents/database/sdc962425</dc:identi
  fier>
<dc:date>2006-06-19T00:00:00Z</dc:date>
=<dc:description>
- <![CDATA[
  ]]>
</dc:description>
<dc:contributor>admin</dc:contributor>
<dc:language>en</dc:language>
<dc:coverage />
<dc:subject />
<dc:rights />
<dc:type>Book</dc:type>

```

```
<dc:format>text/html</dc:format>
<dc:rights>Public</dc:rights>
<dc:source />
<dc:creator />
<dc:publisher />
<dc:file_link />
<dc:file_link_local />
<dc:relation>semide/documents/database</dc:relation>
<dc:subject>WATER QUALITY</dc:subject>
<ut:creator_mail>jauad.el-kharraz@semide.org</ut:creator_mail>
<ut:type_document>Book</ut:type_document>
<ut:source_link>http://www.editions-
johanet.net/ouvrage.php?id=3</ut:source_link>
</item>
```