# Open source CeCILL MDVDED

## Tool for cataloging and locating environmental information

User Manual – Managing metadata

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User Manual – Managing metadata

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#### Before you start...

This manual is meant for you, the MDweb user who needs to create metadata sheets. Since only authenticated users can create or modify sheets, you will have to request the organization running MDweb – via its administrator – to provide you with a user account and to assign a suitable role, with its associated rights, to you.

#### Creating your user account

You can obtain a user account with password by filing in the online registration form accessible via the *Registration* link on the home-page toolbar.



When you submit the registration form, a confirmation e-mail will be sent to your e-mail address. Subsequently, the administrator will validate your registration by assigning you a role. As soon as he does so, you will receive an e-mail with your login name and password.

## **Opening a session**

Once you have your login name and password, you can access the management module from the home-page toolbar.

MDWCD 1 Tool for cataloging and loca	pen-source CeCILL 5 ating environmental in	nformatio	on				
Login : userDemo	Password :	*****	0	k	Registration	Forgot your password!	**

On clicking *Ok*, you may see this message:



If you get this message, first verify that you entered your login name and password correctly. If the problem persists, verify that your browser accepts cookies:

- In **Internet Explorer**, go to Tools/Internet Options/Privacy. Click the 'Advanced' button. In the 'Advanced Privacy Settings' dialogue box, enable the 'Override automatic cookie handling' checkbox and 'Accept' both first-party and third-party cookies.

- In **Firefox**, cookies are enabled via the Tools/Options/Privacy/Cookies dialogue box. Check the 'Allow sites to set cookies' checkbox. The management module provides access to a number of sub-modules and commands that allow you to add, modify and import metadata sheets. It also allows you to view metadata sheets that are confidential, i.e., those not accessible from the public-search module. Finally, you can manage your user account, contacts (personal contacts directory, used for synchronizing the contacts section of the standard) and predefined values by resource type (default values for data-entry forms).

These features are accessible from the menu on the home page of the management module.



#### Managing your user account

Go to Menu > Preferences > My account. You will be able to modify all the properties of your account except the role assigned to you by the administrator.

Change personnal preferences			
Name	Administrateur		
Firstname			
Email adress	admin@mdweb-project.org		
Password	*****		
Confirm password	*****		
Language	english 💽		
Catalog	Catalogue Demo (EMO) 🖵		
Submit			

You may want to change your password to one of your choosing. In addition, you can, if you like, also change the language as well as the default catalog. The default catalog is assigned to you by the administrator and is your working catalog. It will be displayed by default when you will add metadata sheets.

## Creating or modifying a metadata sheet

This section shows you how to add or modify a metadata sheet for different resource types to be referenced. It also provides details on how to synchronize metadata sheets (contact information) with the personal MDweb directory, synchronize predefined values, and attach data files and thumbnails.

Adding a new reference to an MDweb catalog is a two-stage process:

#### • Creating a metadata sheet in a catalog

#### • Filling in information describing the referenced resource

Auxiliary operations, such as modifying a sheet's properties, the synchronization of contact information and predefined values, need not necessarily be executed when a new reference is added to the catalog; they can be run independently later.

#### 1 - Creating a metadata sheet

Depending on the type of metadata sheet you want to create, use the Menu > Create > Data collection or Menu > Create > Data set command.

For <u>Data collection</u>, there are three types of resources that can be referenced in the standard MDweb version:

- Temporal database
- Geographic database
- Digital map

For <u>Data set</u>, the following resource types can be referenced in the standard MDweb version:

- Paper map
- Vector data
- Satellite image, aerial photo
- Data table
- Text document

**Note**: Procedures for creating a reference of either of the two types are identical. We will describe here the procedure to create a metadata sheet for a Data set resource type.

## Description of the procedure for creating a sheet

 $1 - Go \ to \ Menu > Create > Data set$ . A form will be displayed for you to fill in.

2 – **Choosing the title of the sheet:** Enter a title in the corresponding field. This title need not necessarily be the title of the resource you are referencing; it is the title of reference within MDweb. **The length of the title is limited to 80 characters.** 

Create metadata sheet

Sheet title	Corine Land cover Hérault
Catalog	Catalogue Demo (EMO) 💌
Data type	Vector layer
Input level	Basic 💌
Create from an existing sheet?	€ No C Yes
	Submit

3 – **Choosing the catalog:** If more than one catalog exists in your application, you will have to select the catalog in which your sheet will be stored. The drop-down list will allow you to choose one of the existing catalogs.

Crea	ite metadata sheet
Sheet title	Corine Land cover Hérault
Catalog	Catalogue Demo (EMO) 💌
Data type	Vector layer
Inputlevel	Basic
reate from an existing sheet?	• No C Yes
reate from an existing sheet.	No Tes

4 – **Selecting the data type:** You have to select the data type of the resource you are referencing. This is an important field; on the data type depends which form is displayed for you to fill in. In the standard version of MDweb, 8 data types are available. In this example, we will create a sheet to describe a 'vector data' data type.



5 – **Selecting a data-entry level:** A drop-down list will allow you to choose the level of detail you want to enter for your sheet. By default, the level is set to Basic. This level includes only those items essential for publishing a reference.

Create metadata sheet					
Sheet title	Corine Land cover Hérault				
Catalog	Catalogue Demo (EMO) 💌				
Data type	Vector layer				
Input level	Basic				
Create from an existing sheet?	Basic Extended				
	Submit				

6 – **Using an existing sheet to pre-fill the new sheet:** Finally, you can, if you like, create your sheet with information already copied from another sheet of the same data type. Click on the Yes radio button and a list will appear:



You can select one of the sheets from the list to copy information from. When the sheet is created, all the contents of this source sheet will be copied to the new sheet.

7 – **Validate** by clicking Submit. The new metadata sheet will be created in the specified catalog. The first stage in the addition of a reference is now complete. Now the sheet will have to be filled-in and then validated so that it can be published and become accessible.

#### a) 'General information on your metadata sheet' page

Once you click Submit on the form for creating a metadata sheet, a page will appear with the title: **General information on your metadata sheet**. In this section, we will explore this page in detail, which:

- lists the sheet's properties,
- allows synchronization of contacts and predefined values,
- provides access to information-entry forms,
- allows the attachment of data files,
- allows the attachment of a thumbnail.



#### 2 - Entering information into the metadata sheet

Information is entered into a metadata sheet via forms that consist of fields corresponding to the metadata standard used by your catalogue. There is a different form for each data type, i.e., one that consists of description fields chosen for the particular data type.

#### a) Choosing the data-entry level

By default, your metadata sheet's data-entry level is the one you specified when it was created. If you want to change to a different entry level (Basic, Extended, Complete), select it in the Data-entry level drop-down list. Validate by clicking the Change button on the right of the list in your sheet's properties box on the 'General information' page.

#### b) Structure of the data-entry forms

**Each form corresponds to a section of the standard.** For example, for the 'vector data' data type and the Basic data-entry level, three sections are offered:

- The section for the identification of the data set
- The section for the **spatial representation of the data set**
- The section for the system of spatial reference

At the Extended data-entry level, two additional forms will be accessible, corresponding to two more sections of the standard:

- The section for the quality of the data set
- The section for the distribution of the data set

The sections **Identification of the data set**, **Quality of the data set** and **Distribution of the data set** are common to all data types available in the standard version of MDweb. For additional information on the ISO 19115 sections, refer to the <u>ISO 19115</u> document: Geographic information – metadata ISO TC/211.

## c) Accessing the forms

To start entering information in a sheet, access the forms by clicking on the links in the **frame on the left**.

tringe sufficient speeds			
a constant of the second	State of sheet : V	alidated - Not confidential	Link one or more
Dataset Spatial representation	Sheet title	image simulation spot5	Parent type All
Spatial reference system	Catalog	Catalogue Demo (EMO) 💌	List of atta
Resource identification	Inputievel	Complete 💌	Download Priv
Resource distribution	Default values	theme_raster_fr 💽 05-07-2007	File name 1. simul_spot5_98.im
Dataset quality		Modify	Linked zip file (702,76 KB) - La
	Data type	Remote sensing image - Aerial pict.	Link dataset files
	Update date	01-07-2008	
Show metadata sheet	Updated by	admin	Select the number of files that you
	Input complete?	Complete	Warning - the may size
Dial Indata	Validate.	Yes	worning . the max size
Capit Cooste	Confidentiality	No	
	Address	s book manager	
	New Address book entry	Create	
	Catalog contact	exemple contact 💽 05-07-2007	
	Resource contact	exemple contact 💌 05-07-2007	
	Distribution Contact	exemple contact 💽 05-07-2007	
		Insert	
		Juicklook	
	Quicklook	http://demo16.mdveb- project.org/images /simul_spot5_98img.jpg	
		accepted formats: gif, jpg, jpeg, png, bmp	

#### d) Data-entry environment

The screen-shot below shows the data-entry environment. The frame on the left allows you to return to the General information page by clicking on the title of the sheet. You can go to entry forms of the other sections or, if you have arrived here for modifying a reference, return to the list of filtered sheets from which you chose this sheet to be modified.

83103_voirie     Return to information page	bmit Vector layer Test_TPM (TES) Input level : Complete
Dataset Spatial representation     Spatial reference system     Dataset identification     Summary	*
Dataset distributio Dataset quality Author(s)	remaining
Show metadata sheet Status of dataset Topic category Transportation *	
+ Keywords [1] Return to your records Keyword () VOIRES Voirie_83103	

The **central frame** (in grey) displays the form. The form is organised in different sections with their titles in bold. The form's fields are of several types. They are identified by a label. By clicking on the field label, you can access a glossary of the standard's items.

	100 http://demo.mdw	eb-project.org - Glossaire des éléments de formulaire - Mozilla Firefox	-OX
	· Topic category		1
	main theme(s) of the	e dataset	
Author(s)	information ab	out the producing environment of the resource(s)	-
	Terminé		0
Status of dataset 🚯			
+ Topic category 🚯 Transports	ation	*	
+ Keywords [1]			
Keyword 🚯 VOIRES	<u></u>		
Diside TOM			
Title (1)		*	
lide U		<u> </u>	
1		remaining	

#### e) Different field types and their properties

#### **Different field types**

To make it easier for you to enter information and to improve consistency of the information entered, the forms consist of three types of fields:

- text fields for **free text entry**. The format and the length of the entered character string will be verified when the form is submitted.
- **drop-down lists** whose items are taken from the standard.
- Fields with assisted entry.

These latter fields include date fields whose icon opens a **calendar**, keyword fields with the **w** icon that opens a **thesaurus**, or the fields for specifying geographic extents using the **i**con that opens a **cartographic interface**. The next section explains these fields in greater detail.

#### **Properties**

Independent of its type, each field in the form has two properties that are set when the data-entry mask is defined.

- The number of times it occurs in the form, i.e., the possibility of entering several values for the field. The multi-occurrence of a field is shown by the presence of a +. Click the + to obtain another field of the same type. Use the minus icon to reduce the number of fields.
- Whether the **field is mandatory** or not. If it is, a red asterisk \* appears beside the field and you have to compulsorily fill it in before submitting the form.

#### f) Assisted-entry fields

#### **Entering a date**

Date-entry fields should be in either **YYYY** or **YYYY-MM-DD** formats. To simplify the entering of dates and avoid formatting errors, the date fields are linked to a calendar that opens in a pop-up window when you click the **we** icon.

You can select the month and year using the calendar's corresponding drop-down lists. The form closes when you click on the day; the selected date is sent to the date field. In our example, the date sent is 19-06-2007.

Reference date		
Date of dataset creation	() 26-12-2007	*

**Note**: If you only want to enter a year, you have to type it manually in the **YYYY** format.

#### Entering a keyword

Keywords can be entered in two ways:

• By using the **auto-complete** feature of the field. As you type the first few letters of your keyword, MDweb suggests matching keywords from the thesauri associated with MDweb. These suggestions will be displayed below the keyword field. You can click on any of the suggested keyword to insert it into the keyword field. If your keyword is not included in the ones

offered, you can enter it into the keywords manager so that it is available in the future (see Creating or modifying a keyword).

+ - Keywords [1]					
Keyword (1) VOIRES					
+ -	Keywords [2]				
	landsca				
	Landscape	agrovoc			
	Landscape	thesaurus_appli			
	Landscape architecture	agrovoc			
	Landscape care	agrovoc			
Kouword (	Landscape conservation	agrovoc	m - *		
Reyword 😈	Landscape fabrics	agrovoc			
	landscape	gemet			
	landscape after mining	gemet			
	landscape alteration	gemet			
	landscape architecture	gemet			
	landscape component	gemet			

By using the pop-up thesaurus. If you cannot think of the keyword you want to use, you can select it from an Explorer-type window displaying thesauri entries in a tree structure. Click the 1 icon besides the keywords field to open this window.

a- Mozilla Ferefore		-10
ect a term in the thesaurus ywords 1 Eandrcape Validate		
3	Term Landscape Select this term Links	6
agrovoc 4	Landscape morphology Related term - RT Geomorphology Land Physiographic features Topography Land.cover Environment Landscape plants Landscape conservation	5
	- Modifie Firefox  ect a term in the thesaurus  ywords	- Mocilla Firefox  ect a term in the thesaurus  ywords

A menu allows you to choose which thesaurus to use<sup>2</sup>. Once a thesaurus is selected, use the auto-complete feature to select a term<sup>3</sup> from which the thesaurus's tree structure

will be displayed<sup>4</sup>. (In fact, since the reference thesauri are so large, it is not possible to display them in their entirety; only the application thesaurus can be displayed fully.) You can then navigate in the tree structure to see on the right<sup>5</sup> the different relationships of a concept, then choose the concept if it is suitable <sup>6</sup>. For more information, <u>see the Note on thesaurus usage</u>.

#### Entering the geographic extent

#### Notion of the geographic extent of a data set

For a **spatially localized data set** (vector data, satellite image, map), the geographic extent is the spatial extent of the data. For example, if we are referencing the map of French *départements*<sup>1</sup>, the spatial extent to specify will be the national boundaries of France.

For **data sets that are not localized** (text document, temporal database, data table, etc.), the geographic extent is the spatial extent to which the data relates. For example, if we want to reference a report on the integrated management of the Thau lake's watershed, the spatial extent to be entered would be the Thau lake's watershed.

The geographic extent that you want to specify for your data set, or the bounding box, requires the entry of either the four East, West, North, South corners in **decimal geographical coordinates** or of the **toponym**. The geographic extent is essential for indexing your data set. It will be used during searches by location (Where? criteria) for your data set.

Click on the sicon and a pop-up window will open. A cartographic interface will display the active layers of the spatial reference base installed with your copy of MDweb. (The reference base is specific to each MDweb application.)

Two features can be used to help enter the geographic extent:

- The **selection of an object** (polygon, polyline or point) on the active layer and sending it to the form's fields.
- The **definition of a bounding box** using the mouse and sending it to the form's fields.

#### Example of entering the geographic extent using an existing geographic object

In this first example, the user has an existing data set with the Hérault *département* as geographic extent. His geographic reference base contains an entity that is the **outline of the Hérault** *département* in the *Départements* layer.

<sup>&</sup>lt;sup>1</sup> A *département* is a French administrative region, analogous to a state or county in other countries.



Click the mouse button with the cursor hovering over the geometry, and the East, West, North and South coordinates will be inserted into the fields in decimal degrees as will the toponym of the corresponding entity into the relevant field.

#### Example of entering the geographic extents using the bounding box

In this second example, we assume that the user has a data set with a geographic extent that encompasses several *départements*. His geographic reference base does not have an entity corresponding exactly to the geographic extent of his data set.

The user can use the mouse to draw a rectangle (drag-and-draw) corresponding approximately to his data set's extent. When he lets go of the mouse button, the coordinates of the rectangle that he has drawn are sent to the form.



The toponym is generated automatically by the concatenation of the four coordinates.

#### g) Submitting a form

Before the information entered into a form can be saved during creation or modification of a sheet, you have to ensure that all mandatory fields, those marked with a red asterisk \*, are filled in. (Remember that each form corresponds to one section of the standard)

When you click the <u>Submit</u> button, the contents of the obligatory fields are checked and all the fields are checked for conformity with the respective field types. If any check fails, a dialogue box informs you of the problem.

La page	sur http://demo.mdweb-project.org dit :	X
	Please input the mandatory field 'Summary'.	
	ОК	

You can then correct the field in question and re-submit the form.

#### 3 - Modifying a metadata sheet's properties

The properties box on the 'General information on your metadata **sheet**' page displays the properties of the sheet and allows you to modify some of them. Except the data type, the modification date, the name of the user who created the sheet, last update and the data-entry status, all other properties can be modified in an interactive manner.

In this section, we briefly cover all the properties that can be modified.

#### a) Title

If you like, you can modify the title of your metadata sheet. The title can be a maximum of 80 characters long. To do so, modify the text in the Title of the sheet field and click the  $\checkmark$  icon to save the new title.

#### b) Catalog

If you want to transfer the sheet to another local catalog, select it from the drop-down list of the Catalog field. Then click the  $\checkmark$  icon to save your catalog selection.

#### c) Data-entry level

By default, the data-entry level of your metadata sheet is that specified when the sheet was created. If you want to change the data-entry level to a higher level, select the level you want (Basic, Extended, Complete) from the Dataentry level drop-down list and validate your choice by clicking the Change button on the right side of the list.

**Note**: If you modify the data-entry level, certain sections of the standard may disappear (or appear) in the frame on the left to reflect the new level.

		Metadata sheet ger
C BD_VOINE_APM	State of sheet :	Validated - Confidential
Spatial reference system	Sheet title	BD_Voirie_TPM Modify
Dataset identification	Catalog	Test_TPM (TES) Modify
Dataset distribution	Data type	Geographical DB
	Update date	14-01-2008
Dataset quality	Updated by	ademellier
J	Input complete?	Complete
	Inputlevel	Complete 💌 Modify
Show metadata sheet 🙀	Validate	Yes
	Confidentiality	Yes
Baok Update	Default values	26-12-2007 - BD_geographique_fr Modify
	Addres	s book manage <del>r</del>
	New Address book entry	Create
	Ident. Metadata section	26-12-2007 - A; example contact 💌 Demellier Insert
	Data Ident. section	26-12-2007 - Insert
	Distribution section	26-12-2007 - lafitte latter contact .
	Quicklook	accepted formats: gif, jpg, jpeg, png, bmp - max size : 100 Ko

#### d) Publication status

The publication status of a sheet corresponds to its accessibility during searches for references by the final user. Two statuses are possible:

- Unvalidated, i.e., not published, shown by the 🏓 icon
- Validated, i.e., published, shown by the 퉈 icon

The modification of a sheet's publication status is allowed if you have the rights to do so, i.e., if the administrator assigned you a validator's role. Of course, the administrator himself can change this status.

Click on the flag icon to toggle the publication status. With the sheet in the unvalidated state, the flag will appear red  $\mathbf{k}$ ; in the validated state it will be green  $\mathbf{k}$ .

#### e) Confidentiality status

The confidentiality status determines who can access a validated reference. Two statuses are possible:

- The **confidential** status is signifies that the sheet will only be accessible to authenticated MDweb users.
- The **non-confidential** status signifies that the sheet will be accessible to anyone using the public search module.

Click on the lock icon to toggle the confidentiality status. When set to confidential, the lock will be locked (3); when set to non-confidential, the lock will be displayed as open (3).

#### f) Synchronizing predefined values

To simplify and automatize the entry of information on the data being referenced, two synchronization mechanisms are provided in MDweb. The first concerns the **synchronization of default values**. The purpose of this synchronization is to allow, during the creation of a sheet or before its validation, the automatic filling in of some fields whose values are constant for 'technical' items, i.e., corresponding to the items of the standard for which specialized knowledge is necessary). For this, when a sheet is created, a predefined set of values is filled in. The user can modify them by going to <u>Menu > Preferences > Manage values</u>. These operations are covered in a different section in this manual (Creating or modifying a set of predefined values).

To synchronize the predefined values into your sheet, the set of default predefined values default is available in the drop-down list. Click the **Modify** button to insert the values into your sheet.

De fault ve lane	26-12-2007 -	BD_geographique_fr 💌
Default Values	BD_geographique_fr	Modify

On the left of the drop-down list will be shown the date of synchronization of the values and the inserted set.

#### g) Synchronizing the contact fields

For the same reasons as for the synchronization of predefined values, the synchronization of the contact information allows the user to create a contact set in MDweb and to use it when creating or modifying a sheet. The synchronization of the contact information can be done independently for the three sections of the templates:

- The section Identification of metadata
- The section Identification of the data set
- The section Distribution of the data set

The Menu > Preferences > Manage contacts command allows the user to created and modify his contact set.

To synchronize the contact information in your sheet with the contact sets defined earlier for each section, you can select a set and synchronize into your sheet by clicking the corresponding **Insert** button.

Address t	ook manager	
New Address book entry	Create	
Ident. Metadata section	26-12-2007 - A) Demellier	example contact 💌
Data Ident. section	26-12-2007 -	nouveau contact 💌
Distribution section	26-12-2007 - lafitte	autre contact
Quicklook		accepted formats: gif, jpg, jpeg, png, bmp - Attach max size : 100 Ko

On the left of the drop-down list will be displayed the date of the synchronization of the contact information inserted into the sheet.

#### h) Attaching a thumbnail image

As contemplated in the ISO 19115 standard, it is possible to attach a thumbnail image of the referenced data to the sheet. The last item in the properties box allows the user to do so.

This operation also fills in the corresponding item of the standard and stores the image on the hard drive of the MDweb server. A thumbnail can also be attached to an existing sheet using the Menu > Import/Export > Attach thumbnail command. This command allows batch attachment.

Descriptio	on of the procedure	for attach	ning a thumbnail
1 – Click the Attac	<b>h</b> button to open the th	umbnail att	tachment form.
	Address	book manager	
	New Address book entry	Create	
	Ident. Metadata section	26-12-2007 - A; Demellier	example contact 💌
	Data Ident. section	26-12-2007 -	nouveau contact 💌
	Distribution section	26-12-2007 - lafitte	e autre contact
	Quicklook		accepted formats: gif, jog, jpeg, png, bmp - max size : 100 Ko
2 – Selecting the	file to attach: The fo	rm allows y	you to select <b>an image file (jpeg</b>
gif or png) contail	ning the thumbnail of th	e metadata	a sheet that you want to import. Fil

in the path and name of the file (or Browse to it) and the description field (optional) and Submit. The thumbnail will be attached to the new sheet.

	Link quicklook	to the sheet
File n° E:\diteeth.jpg	Parcourir	(accepted formats: gif, jpg, jpeg, png, bmp - max size : 100 Ko )
Description of content of quicklook	quicklook of dataset	

3 – Validation: The name of the file will be shown in the properties box.

## i) Attaching data

One or more data files can be attached to the metadata sheet from the Attach resource files to the sheet box.

Currently, this box allows the user to load the files that he wants to attach to the sheet and compresses them into a zip archive. The loaded files are compressed on the fly in zip format and stored in MDweb's resource folder on the web server with the identifier of the sheet to which the data is attached.

#### Description of the procedure

1 – Loading the files to be attached: In the Attach resource files to the sheet box, a form allows you to load the data files from your local drive to the web server. Use the drop-down list to select the number of files to attach.



3 – **Validating the operation:** Depending on the size of the attached files, it may take some minutes for all the files to be compressed and stored. Once that is done, a box will appear on the page and display the names and sizes of the compressed files as well as the size of the zip archive and its creation date.

	File name	Unzipped size
1.	ocean_mercator.sbx	116 Bytes
2.	ocean_mercator.shp	236 Bytes
з.	ocean_mercator.shx	108 Bytes
4.	ville_mercator.prj	483 Bytes
5.	ocean_mercator.dbf	153 Bytes

**Note**: The total size of the files to be attached should not be bigger than your server's storage capacity and should be suitable for the available bandwidth so that the operation does not exceed the timeout of your PHP module. If it does, the attachment operation will fail.

## 4- Modifying an existing metadata sheet

The same page and operations described in the previous section (3- Modifying a metadata sheet's properties) are used to modify an existing reference. Here we will show you how to search for a sheet and arrive at its general information page.

#### Description of the procedure for modifying a sheet

1 – Go to Menu > Modify. You can search for a sheet to modify using five filtering criteria:

- the catalog containing the sheet



**Note**: If you do not specify any filtering criteria, all of your sheets will be displayed. Click the  $\checkmark$  icon to go to the metadata sheet's general information page. See sections **2**-**Entering information into the metadata sheet** and **3**- **Modifying a metadata sheet's properties** for details on modifying the sheet.

## 5 - Validating a metadata sheet for publication

Validation is necessary for the publication of your metadata sheet and of its accessibility from the search module. It is something that should be done according to a **procedure that has been discussed and consensually arrived at** within the organization or team that is managing the catalog.

Even though easy enough to execute – all one has to do is to toggle the red flag to green – a **conscientious** validation procedure should be put in place by the one or more persons having **validators' roles** and who have been assigned this responsibility by the managing organization. The validation process should consider both the **thematic and spatial descriptors** that are used for indexation (in particular the keyword fields and the spatial extent) as well as the fields describing the **contents of the data referenced** (title, summary, for example). Accuracy of the information on the structural characteristics (type of representation, format, etc.) should also be checked.

For these reasons, the validation should be entrusted to one or more persons who have **thematic expertise** on the referenced data and a good knowledge of **geographic information specifications** in general. Only with this background can a validator correctly evaluate the contents of the data and its technical specifications.

The validation operation itself can be executed from the sheet's general information page (red flag  $\triangleright$  > green flag  $\triangleright$ ).

The publication status of a sheet can only be changed if you have the rights to do so, i.e., if the administrator has assigned a validator's role to you. Of course, the administrator himself can change this status too.

Click on the flag icon to toggle the publication status. With the sheet in the unvalidated state, the flag will appear red  $\mathbf{k}$ ; in the validated state it will be green  $\mathbf{k}$ .

## Importing or exporting a metadata sheet

#### 1- Importing metadata sheets

One or more sheets can be imported using the Menu > Import/Export > Import XML command. In this MDweb version, you can import metadata sheets in XML format originating from three sources:

- ArcCatalog 8.x, conforming to the ISO 19115 standard
- GeoSource 1.0 or ArcCatalog 9.x conforming to the ISO 19139 standard (French profile)
- End Notes

## Description of the procedure

 $1 - Go \ to \ Menu > Import/Export > Import XML$ . Select a source. A form will appear where you can specify the XML file(s) you want to import. To import more than one file (maximum 5) use the +1 and -1 buttons to increase/decrease the number of files. Use the Browse button(s) to navigate to the XML file(s) on your local drive.



2 – **Submit and the XML files will be loaded.** A summary table will show the details of the XML files and will also allow you to select the MDweb catalog into which each sheet will be imported.

	To import XML format metadata sheet ISO 19139 standard						
			Back				
File number	Xml file name	Import source	Destination catalog	Metadata profile name	Quicklook	Dataset files	
1	ville_mercator.shx.xml	MDweb 🔹	Catalogue Demo (EMO) 💌	Vector layer 💽	0	<b>_</b>	
2	ocean_mercator.shx.xml	MDweb 💌	Catalogue Demo (EMO) 💌	Vector layer 💽	0	<b>_</b>	
3	ocean_mercator.shp.xml	MDweb 💌	Catalogue Demo (EMO) 💌	Vector layer 💽		<b>_</b>	
4	depart_mercator.shx.xml	MDweb 🔹	Catalogue Demo (EMO) 💌	Vector layer 💽	Ĩ	<b>_</b>	
			Submit				

In addition, you also have the opportunity to import a thumbnail and/or a zip archive to be attached to each sheet. (The Menu > Import > Attach thumbnails and Menu > Import > Attach data commands allow these operations to be executed for sheets that already exist in the catalogs.) If you want do so now, you can:

3 – **Attaching a thumbnail:** Click on the  $\square$  icon and a form will appear that will allow you to load a jpeg, gif or png file with the thumbnail image of the metadata sheet that you are importing. Fill in the path and name of the file (or Browse to it) and the description field (optional) and Submit. The thumbnail will be attached to the new sheet.

4 –**Attaching a zip archive:** Click on the icon and a form will appear that will allow you to load a compressed zip file containing the files of the resource described by the metadata sheet that you are importing. Fill in the path and name of the file (or Browse to it) and Submit. The zip archive will be attached to the new sheet.

5 – **Validating the XML files to be imported:** Once you have optionally attached the thumbnails and data files to the sheets to be imported, click Submit. The format of the XML files will be verified.

6 – Launching the XML import: Click on the Import button and the sheets will be inserted into the chosen catalog and the thumbnails and/or data files attached.

## To import XML format metadata sheet ISO 19139 standard

Back Following sheets imported into the catalog :

> ville\_mercator.shx.xml ocean\_mercator.shx.xml ocean\_mercator.shp.xml depart\_mercator.shx.xml

7 – Once the import operation is over, the screen above will be displayed. If you want, you can import more files by clicking the *Import more XML sheets* button.

If a sheet already exists: If, while importing a sheet, MDweb finds that a sheet in a catalog is identical to the one being imported (same name and update date), you will have three options:

To import XML format metadata sheet ISO 19139 standard				
Back				
The metadata sheet already exist : What do you want to do ?				
Existing sheet	Choose			
e_TPM - 2008-01-14 - Geographical DB	Do nothing 💽			
Import	Do nothing update the sheet Create a new sheet			
	Back y exist : What do you want to do ? Existing sheet e_TPM - 2008-01-14 - Geographical DB			

a) **Skip:** The file will not be imported.

b) **Update the sheet:** The existing sheet will be updated by items from the sheet being imported.

c) **Create another sheet:** The conflict will be ignored and a new sheet will be created in the catalog.

#### 2 - Exporting metadata sheets

To allow the exchange of metadata sheets from MDweb to other cataloging tools, the export sub-module can **export all metadata sheets which are complete at least to the Basic level**. They are exported as XML files to:

ArcCatalog 8.x (ISO 19115) or

Geosource 1.0 or ArcCatalog 9.x (ISO 19139 French profile).

One or more sheets can be exported using the Menu > Import/Export > Export XML command.

#### Description of the procedure

1 – Go to Menu > Import/Export > Export XML. A form will allow you to select sheets to export based on clearly defined criteria. Four criteria can be used to filter sheets: a word in the title of the metadata sheet, the type of resource (vector theme, image, etc.), the catalog or the period in which the sheet was created or updated.



2 – Validate your criteria to get a list of corresponding sheets. Select the sheets you want to export by checking the boxes in the Export XML column. For reasons of performance, only a maximum of 5 sheets can be exported at one time.

Sheet title	Catalog	Data type	user	Export your metadata sheet in XML format (max=5)	Download
1. BD_Voirie_TPM Last update 14-01-2008 Last export 15-01-2008	Test_TPM	Geographical DB	ademellier	ок	Launch
2. test_ird Last update 12-12-2007	Catalogue Demo	Hardcopy map	admin		
3. test Last update 12-12-2007	Catalogue Demo	Hardcopy map	admin		
4. carte num Last update 06-12-2007	Catalogue Demo	Digital map	admin		
5. Simulation Spot 5 Last update 03-12-2007	Catalogue TP	Remote sensing image - Aerial pict.	userTP5		
6. Corine Land Cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP11		
7. Corine Land Cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP4		
8. Corine Land cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP10		
9. Corine Land Cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP7		
10. corine land cover 34 Last update 03-12-2007	Catalogue TP	Vectorlayer	userTP12		
	Export sele	cted sheets			
3 – Launch the export by	y clicking the	Export selecte	ed sheets but	ton below	the list.

Sheet title	Catalog	Data type	user	Export your metadata sheet in XML format (max=5)	Download
1. BD_Voirie_TPM Last update 14-01-2008 Last export 15-01-2008	Test_TPM	Geographical DB	ademellier	ок	Launch
2. test_ird Last update 12-12-2007	Catalogue Demo	Hardcopy map	admin		
3. test Last update 12-12-2007	Catalogue Demo	Hardcopy map	admin	V	
4. carte num Last update 06-12-2007	Catalogue Demo	Digital map	admin	V	
5. Simulation Spot 5 Last update 03-12-2007	Catalogue TP	Remote sensing image - Aerial pict.	userTP5		
6. Corine Land Cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP11		
7. Corine Land Cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP4		
8. Corine Land cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP10		
9. Corine Land Cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP7		
10. corine land cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP12		

4 – Wait a few moments. Once the export operation is over, the displayed list is updated with the export date, the success of the export operation and the addition of a button in the Download column. This button can be used to download the exported sheets in XML format to one's local drive.

Sheet title	Catalog	Data type	user	Export your metadata sheet in XML format (max=5)	Download
1. BD_Voirie_TPM Last update 14-01-2008 Last export 15-01-2008	Test_TPM	Geographical DB	ademellier	ок	Launch
2. test_ird Last update 12-12-2007 Last export 15-01-2008	– Shttp://demo.mdweb-projec	t.org - Export 💶 🗶	admin	ок	Launch
l. test Last update 12-12-2007 Last export 15-01-2008	XML export	done !	admin	ок	Launch
. carte num Last update 06-12-2007 Last export 15-01-2008			admin	ок	Launch
. Simulation Spot 5 Last update 03-12-2007 Last export 15-01-2008		rial	userTP5	ок	Launch
i. Corine Land Cover 34 Last update 03-12-2007			userTP11		
. Corine Land Cover 34 Last update 03-12-2007	Terminé	•	userTP4		
). Corine Land cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP10		
. Corine Land Cover 34 Last update 03-12-2007	Catalogue TP	Vector layer	userTP7		
0. corine land cover 34 Last update 03-12-2007	Catalogue TP	Vector laver	userTP12		

5– By default, the created XML sheets are stored in MDweb's xml/export folder on the web server. If you want to export additional sheets, repeat the process from step 3.

**Note**: For sheets that have already been exported before, the script compares the export date with the last update date. Only if this latter date is later than the export date does the script export the sheet, otherwise it does nothing. Your MDweb server's xml/export folder holds all the exported XML sheets. The sheets list generated by the export XML command provides an overview of the contents of the sheets already exported by displaying the sheet's modification date and export date ('Sheet title' column).

## Attaching data files to a sheet

Attaching one or more data files to a metadata sheet is done using the Menu > Import/Export > Attach data command.

You can access all your sheets from all the catalogs and attach data files to any of them. Once you select the files, MDweb will compress them on the fly into the zip format and store the zip archive in MDweb's *resource* folder on your web server with the identifier of the sheet to which it is attached.

#### Description of the procedure

1 - Go to Menu > Import/Export > Attach dataset.

Three criteria allow you to filter the metadata sheets so that you can easily find the ones you want to use. These criteria are:

- Origin of the sheet: Imported XML or from a local catalog,

- Catalog which contains the sheet,

- **Data type** that the sheet describes (vector data, satellite image, digital map, etc.).

Click Submit to view the list of matching sheets.

2 – **Selecting the metadata sheet:** From the information displayed in the sheets list, you can easily see which sheets already have zip archives attached and the dates they were attached (Attached zip archive column). To attach one or more files, click on the Ok button in the Attach column.

*Caution:* Attaching a data file to a metadata sheet automatically erases any archive already attached to that sheet.

Sheet pro	ovenance		Catalog			Profile name			user			
All	I A	AII.			All		•	All	•	Submit		
Fiche	Sheet prov	renance	Last update	Ca	talog	Profile	name		user	Linked zip	file	Link
toto	Local MI	Dweb	14-01-2008	Tes	t_TPM	Vector	layer		ademellier			ОК
BD_Voirie_TPM	Local MI	Dweb	14-01-2008	Tes	t_TPM	Geograp	hical DB		ademellier	14-01-2008	18:19	OK
	XML im	port	10-01-2008	Catal	ogue TP	Remote sensing in	mage - Aeria	al pict.	userTP12			OK
83103_voirie	Local MI	Dweb	09-01-2008	Tes	t_TPM	Vector	layer		ademellier	26-12-2007	14:48	OK
BD geo	Local MI	Dweb	14-12-2007	Catalog	jue Demo	Geograp	hical DB		admin			OK
test_ird	Local MI	Dweb	12-12-2007	Catalog	jue Demo	Hardcop	oy map		admin			OK
test	Local MI	Dweb	12-12-2007	Catalog	jue Demo	Hardcop	oy map		admin			OK
test 5	Local MI	Dweb	12-12-2007	Catalog	jue Demo	Hardcop	oy map		admin			OK
Lacs et étang 34	Local MI	Dweb	12-12-2007	Catal	ogue TP	Vector	layer		userTP1	07-06-2007	14:47	ОК
0. test couche vecteureee	E Local MI	Dweb	12-12-2007	Catalog	jue Demo	Vector	layer		admin			ОК
						<b>&gt;</b>						



5 – **Verifying the operation:** Depending on the size of the attached files, it may take some minutes for all the files to be compressed and stored. Once that is done, you will return to the sheets list you started out from. A message will inform you that the files have been saved in the zip archive. If you wish, you can now re-run the operation for other sheets.

**Note**: The total size of the files to be attached should not be bigger than your server's storage capacity (consult your system administrator, if necessary) and should be suitable for the available bandwidth so that the operation does not exceed the timeout of your *PHP* module. If it does, the attachment operation will fail.

## Attaching a thumbnail to a metadata sheet

One or more thumbnails can be attached to a metadata sheet by the use of the Menu > Import/Export > Attach thumbnails command.

You can access all your sheets from all the catalogs and attach a jpeg, gif or png file to each of them. The image file's size should not exceed 100 KB. MDweb will store the thumbnail files in the images/thumb folder of MDweb and original image file in images folder.

#### Description of the procedure

1 – Go to Menu > Import/Export > Attach thumbnails.

Three criteria allow you to filter the metadata sheets so that you can easily find the ones you want to use. These criteria are:

- Origin of the sheet: Imported XML or from a local catalog,

- Catalog which contains the sheet,

- **Resource type** that the sheet describes (vector data, satellite image, digital map, etc.).

Click Submit to view the list of matching sheets.

2 – **Selecting the metadata sheet:** From the information displayed in the sheets list, you can easily see whether a sheet already has a thumbnail attached and the date it was attached. To attach a thumbnail image, click on the Ok button in the Attach column.

*Caution:* Attaching an image file to a metadata sheet automatically replaces any thumbnail image already attached to that sheet.

	1	Attach a	thumbna	il to metadata sheet			
				Back			
Sheet pr	ovenance	Catalog		Profile name	user		
All	All		All		11	Submit	
Fiche	Sheet provenance	Last update	Catalog	Profile name	user	Linked quicklook	Link
1. 2222222222	Local MDweb	29-11-2007	Catalogue Demo	Digital map	direnfc		ОК
2.	XML import	07-11-2007	Catalogue Demo	Vector layer	flavie		ОК
3. Qualité de l'eau - Franche-Comté 2004 - altération nitrates	Local MDweb	29-11-2007	Catalogue Demo	Digital map	direnfc		OK
4. corine land cover 34	Local MDweb	03-12-2007	Catalogue TP	Vector layer	userTP9		OK
5.	XML import	09-02-2007	Catalogue TP	Remote sensing image - Aerial pict.	userTP2		ОК
6. Lacs et étang 34	Local MDweb	07-06-2007	Catalogue TP	Vector layer	userTP10	http://demo.mdweb-project.org/images/hyht34.shp.jpg	ОК
7. Lacs et étang 34	Local MDweb	12-06-2007	Catalogue TP	Vector layer	userTP8	http://demo.mdweb-project.org/images/hyht34.shp.jpg	ок
8. Lacs et étang 34	Local MDweb	11-06-2007	Catalogue TP	Vector layer	userTP3	http://demo.mdweb-project.org/images/hyht34.shp.jpg	ОК
9. Lacs et étang 34	Local MDweb	06-09-2007	Catalogue TP	Vector layer	userTP9	http://demo.mdweb-project.org/images/hyht34.shp.jpg	ОК
10. Lacs et étang 34	Local MDweb	07-06-2007	Catalogue TP	Vector layer	userTP11	http://demo.mdweb-project.org/images/hyht34.shp.jpg	ОК

*3 – Attaching the thumbnail and description:* A new page displays a form that allows you to select an image file (jpeg, gif or png) for storage on the web server.

## Creating or modifying a contact

#### Managing contacts: some concepts

To minimize the work of entering information into metadata sheets, in particular information of a repetitive nature, MDweb allows you to specify information that you can load into different sheets easily. Information of this type includes contact information, representing the ISO 19115 standard's **contact information (CI\_ResponsibleParty class)**. In fact, contact information is used in several sections of the standard, the main ones being Metadata identification, Data set identification and Data set distribution. Thus, **MDweb allows you to create contact sets independent of metadata sheets** and to manage these sets. When a new metadata sheet is created, you can use one of your contacts that already exists to fill in the appropriate fields in the sheet. You can choose a different contact set for each section.

Manage your contact sets using the Menu > Preferences > Managing contacts command.

## Description of the procedure to add or modify a contact

1 – Go to Menu > Preferences > Managing contacts > Add. The form that appears will allow you to add a contact. You will be required to enter a name for the contact.

## Manage your Address book

#### Add a entry to your address book

Contact name	new contact	
Create from an existing contact?	💿 <sub>No</sub>	O Yes
Default contact (Ident. Metadata section)	⊙ <sub>No</sub>	C <sub>Yes</sub>
Default contact (Ident. Data section)	⊙ <sub>No</sub>	C <sub>Yes</sub>
Default contact (Dist <del>ri</del> bution section)	⊙ <sub>No</sub>	C <sub>Yes</sub>
	Submit	

2 – **Creating a new contact from an existing one:** The form allows you to create a new contact from an existing one. If you choose to do so, you will be asked to choose the existing contact from a list of existing contacts.

*3.* Choosing the default contact: The form allows you to define the new contact as the default contact for one or more sections of the standard.

When a contact is made the default contact for a section, it will be offered by default in the properties box of your metadata sheet. You could thus synchronize your sheet without having to choose the contact from a list. In the example above, we have set our new contact as the default contact for the three sections used for information entry.

4 – **Entering the contact information for a contact:** After entering a name for the contact and optionally setting it as the default contact, click Submit to arrive at this entry form:

Name of res	ponsible person The	Manag Boss The wo	<mark>e your Add</mark> rld company	ress b	ook -	new conta	act			
Name of the	responsible organisat	ion						182 remainin	g *	
Role or funct	ion of responsible per	son headqu	Jarters							
Phone num	bers [1]									
Voice teleph	one 0467548754									
Facsimile	0467548700									
	<u>Remote sensin</u> 500 rue jean <u>fr</u>	g House ançois Bretor	1							
Delivery poin	nt I									
City Mont	pellier cedex 5									
Administrati	ve area									
Postal code	34093			_						
Country F	France			<u>+</u>						
+ Email	jcd@teledetectior	n.fr	*							
Fill in the fiel submit the fo	ds of this fo orm, its cont	rm. Sor ents wil	me fields a Il be savea	are n d.	nanda	tory and	are so i	marked *.	When y	you
5 Modifyi	na an avi	sting c	ontact: \		an m	odify th	oinform	nation of a	n ovict	lina
contact by us	ing the Mer		offerences		an m nagir	ourry the	e = 1110111	dify comm	and A	list
	ing contacts		displayed		mayii	ig contac	713 / IVIC		anu. A	1151
or your existi	ng contacts		uispiayea	•						
		Ma	nage yo	ur Ao	ddres	ss book				
	Up	date or	Modify the	entry	of yo	our addres	ss book			
	Contact name	Login	Update contacts date	Update	Delete	Default contact (Ident. Metadata section)	Default contact (Ident. Data section)	Default contact (Dis <del>tri</del> bution section)		
1.		ademellier	26-12-2007	<ul> <li>Image: A second s</li></ul>	X	No	No	No		
2.	A; Demellier	ademellier	26-12-2007	~	X	No	No	No		
3.	A. Demellier	ademellier	26-12-2007		X	No	No	No		
5.	autre contact	admin	19-06-2007	<b>V</b>	X	No	No	Yes		
-		• •			~					

You can Modify a contact by clicking on its  $\checkmark$  icon. You can also delete a contact by using the  $\nearrow$  icon, but only if it is not set as the default for any of the three sections of the standard. And, finally, from this list, you can change the contacts you want to use as the default thereafter for any of the sections.

**Note**: In the current MDweb version, if a contact is modified or updated, the changed information is not reflected to those sheets with which this contact had been synchronized. To update the concerned sheets, you will have to re-synchronize them all with the updated contact.

## Creating or modifying a set of predefined values

#### Managing predefined values: some concepts

For the same reasons as above, i.e., to minimize the work of entering information into metadata sheets, **MDweb allows you to predefine values of some 'technical' items**. Moreover, users who are not specialists in the standard will not get stumped when confronted by these fields. This feature allows these values to be masked from the user, notably those values that are unlikely to change from sheet to sheet, such as the metadata language (mdLang item) and the metadata character set (mdChar item). A set of predefined values is created for each user when the user account is created. The user can modify or delete it, and it can be checked and corrected by the administrator, who has access to the predefined values of all users. In the standard version of MDweb, the predefined-value sets cover very few items (less than 10). Certain template properties can, however, be modified to increase this number.

Manage your sets of predefined values using the Menu > *Preferences > Manage* values command.

#### Description of the procedure to add or modify predefined values

1 – Go to Menu > Preferences > Manage values > Add. The form that appears will allow you to add a set of predefined values. You have to first enter a name for the set of predefined values and then choose the data type to which it will apply.



2 – **Creating a new set from an existing one:** The form allows you to create a new set of values from an existing one. If you choose to do so, you will be asked to choose a set from a list of existing sets of values of the same data type.

3. Choosing the default contact: The form allows you to define the new set of values as the default set.

When a set is made the default set, it will be offered by default in the properties box of your metadata sheet. You could thus synchronize your sheet without having to choose a set of values from a list.

4 – **Entering the predefined values:** After entering the name and optionally making the set the default set, click on the Submit button to get to the entry screen. The entry screen consists of three tabs corresponding to the sections of the standard; you have to enter your values here.

Preset values - Temporal DB english presets values	
DataSet Distribution Metadata	
+ Dataset language English ×	
Character set used for the dataset Utf8 💽 ^	
Event used for reference date Creation 🔽 *	
Submit	

The entry or modification of values and their submission is done tab by tab. Before going from one tab to another after entering/modifying values, you have to click the Submit button to save the changes.

5 – **Modifying an existing set of values:** You can modify values of an existing set by using the Menu > <u>Preferences > Manage values > Modify</u> command. The list of your sets of values will be displayed.

	Ма	nage	ment of yo	urs preset va	alues		
		м	lodify yours p	reset values			
	Preset values set name	Login	Update preset values set date	Profile name	Update	Delete	default preset values set
1.	BD_relationnelle_fr	1004	26-03-2007	Temporal DB	<ul> <li>Image: A second s</li></ul>	X	No
2,	BD_geographique_fr	1004	26-03-2007	Geographical DB	<ul> <li>Image: A second s</li></ul>	X	Yes
з.	carte_numerique_fr	1004	26-03-2007	Digital map	<ul> <li>Image: A second s</li></ul>	X	Yes
4.	carte_papier_fr	1004	26-03-2007	Hardcopy map	<ul> <li>Image: A second s</li></ul>	X	Yes
5.	hardcopy_map_en	1004	09-02-2007	Hardcopy map	<ul> <li>Image: A second s</li></ul>	$\sim$	Yes
6.	raster_en	1004	09-02-2007	Remote sensing image - Aerial pict.	<ul> <li>Image: A second s</li></ul>	×	Yes
<b>7</b> .	theme_raster_fr	1004	26-03-2007	Remote sensing image - Aerial pict.	<ul> <li>Image: A second s</li></ul>	$\mathbf{X}$	Yes
8.	theme_vecteur_fr	1004	26-03-2007	Vector layer	<ul> <li>Image: A second s</li></ul>	$\mathbf{X}$	Yes
9.	vector_layer_en	1004	09-02-2007	Vector layer	<ul> <li>Image: A second s</li></ul>	$\sim$	Yes
10.	presentation_fr	1004	26-03-2007	Text documents	<ul> <li>Image: A second s</li></ul>	$\mathbf{X}$	Yes
11.	slide_show	1004	09-02-2007	Text documents	<ul> <li>Image: A second s</li></ul>	$\mathbf{X}$	Yes
12.	biblio_ref_en	1004	09-02-2007	Bibliographical reference	<ul> <li>Image: A second s</li></ul>	$\mathbf{X}$	Yes
13.	reference_biblio_fr	1004	26-03-2007	Bibliographical reference	<ul> <li>Image: A second s</li></ul>	×	Yes
14.	classeur_fr	1004	26-03-2007	Spreadsheets data	<ul> <li>Image: A second s</li></ul>	X	Yes

You can Modify a set by clicking on its  $\checkmark$  icon. You can also delete a set by using the  $\nearrow$  icon, but only if it is not set as a default. And, finally, from this list, you can change the default setting for each set.

**Note**: The sets of predefined values are unlikely to change very often. However, in case you want to reference data with different sets of predefined values (different language or character set, for example), you can create several sets of values for the same data type.

## Proposing keywords

#### Managing keywords: some concepts

When a word is entered into a keyword field in the entry forms and if it is not already part of thesaurus, MDweb provides the option of adding it to its keywords database. This feature is **an alternative to the use of the GCMD thesaurus** to control keyword entry in the current version. These 'free' keywords are stored and linked to the user who entered them. The **Managing your keywords** section shows how you can manage them, for example, to correct a spelling, to attach it to a category, or to delete one or more of them. The MDweb administrator has, of course, access to all keywords of all users and can modify them to ensure consistency amongst them.

Keywords can be managed using the Menu > *Preferences > Manage keywords* command.

## Keywords manager



#### Description of the procedure to add or modify a keyword

1 – Go to Menu > Preferences > Manage keywords. The keywords manager screen will appear.

2 – **Adding a term:** In the frame on the left, you can enter a new term. You have to assign the new term to a category using the drop-down list. Click Submit to add the term to your keywords list.

Keywor	rd
Type	Spatial 💌

2 – **Modifying or deleting a term:** Your list of keywords is displayed on the right. If you have many keywords, you can filter them using the alphabetic index. To Modify a keyword, click on the  $\checkmark$  icon. To delete one, click on the  $\overleftrightarrow$  icon.

s 1 to 5 from 5				▲ < + < + 1	• • • • •	
Keyword	iist	Keyword type	user		Update	Delete
corine land	cover	Spatial	userTP12	2007-12-03	×	×
data assimi	lation	Spatial	sbaudel	2007-09-20	<ul> <li>Image: A set of the set of the</li></ul>	×
image		Spatial	userTP12	2007-12-03	<ul> <li>Image: A second s</li></ul>	×
in situ		Spatial	sbaudel	2007-09-20	<ul> <li>Image: A second s</li></ul>	×
ocean forec	asting	Spatial	sbaudel	2007-09-20	1	X

3 – **Modifying a term:** A term is modified in the same way as a new one is added. Click on the Modify button for the modified keyword to be saved.

Keyword data assimilation Type Spatial 💽 Update	Keyword update
Update	Keyword data assimilation
	Update

**Note**: In the current MDweb version, the modification of a term is not automatically transmitted to the sheets already using that term as a keyword.

