01/04/2016

QSphere 2.14.x

User manual

Version History Document

Version	Date	Comment
v 0.1	05/10/2015	Initialization Document (CM)
v 0.2	05/11/2015	Updating the document (CM)
v 0.3	06/11/2015	Updating the document (CM)
v 0.4	28/12/2015	Updating the document (CM)
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v 0.6	01/04/2016	Updating the document (CM)

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1 - Presentation QSPHERE

1.1 - Topic

QSPHERE is an extension that was carried out in the framework of information days in care for ADL (Data Administrators) of the Ministry of Sustainable Development of the French State for the implementation of catalogs meet expectations INSPIRE Directive.

Its functional scope does not directly concern the management of metadata catalogs but intelligence metadata records catalogs.

Finally, QSphere was also developed as part of a work of introspection on the capabilities of the Qt library.

1.2 - History

In early 2012, the mission of the Geographic Information of the Ministry of Sustainable Development of the French state launched a communication plan on the INSPIRE Directive for its Data Administrators.

In this context, QSPhere was first initiated as a presentation support of metadata entry guide written by CNIG. At the beginning of 2014, the mission of the Geographic Information of the Ministry of Sustainable Development hoped that the expansion is released.

The first version made available on the official website for QGIS extensions version 2.4.1 was August 4, 2014. Since then, many versions have followed up the current version.

For more information about the versions available :

QGIS Python Plugins Repository :

https://plugins.qgis.org/plugins/qsphere/

Departmental website QGIS projects :

https://qgis.projets.developpement-durable.gouv.fr/projects/qsphere

CNIG Website :

http://cnig.gouv.fr/?page_id=2916

1.3 - Support and developments

It is not part of the engine Qgis and any problem can be addressed to QGIS developers.

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have not received a copy of the GNU General Public License along with this program; if you want it, you can write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

For any problem or request changes, you can file a ticket on the following website :

https://qgis.projets.developpement-durable.gouv.fr/projects/qsphere

Beforehand, you must create your account using the button « Register ».

1.4 - Contributors

Thank you to all those who contributed voluntarily, involuntarily, directly or indirectly to the realization of this plugin.

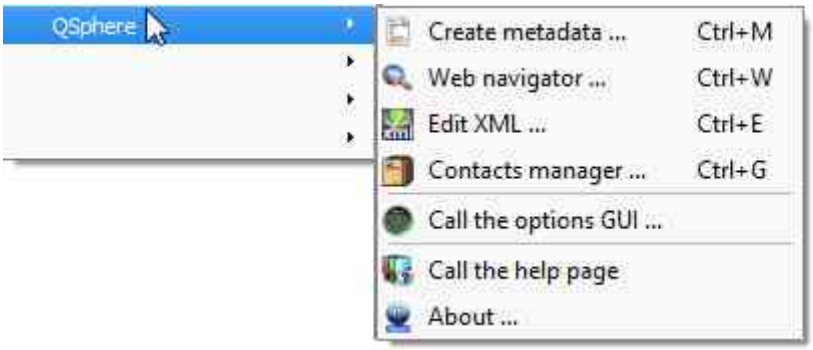
Special thanks to :

	Mr. François GANZ (City of Avignon) for his contributions to XML ISO stylesheet Mr. Didier LECLERC for his contributions by testing Mr. Cyril AECK for his contributions by testing under the LINUX environment
	Mr. Andrea PERI for the italian translation of GUI and bugs report Mr. Giorgio PIRA for help and the recipe on the CSW-T Mr. Piergiorgio CIPRIANO for help and the recipe on the CSW-T
	Mr. Kari SALOVAARA for the finnish translation of GUI
	Mrs. Lynda WAYNE and Mr. Doug NEWCOMB for their support

2 - Interfaces

2.1 - Menu and toolbar

2.1.1 - Menu



Consult the detailed actions associated below (paragraph "Toolbar").

2.1.2 - Toolbar

The toolbar extension comprises 7 action buttons for :

- Open the main interface metadata input
- Open the Web browser interface
- Open XML Editor
- Open the contact manager
- Open the configuration interface of QSphere
- Open using QSphere (this PDF file)
- Open the page "About" of QSphere (context for the Web browser interface)

2.1.3 - Menus buttons or action buttons

There are two major categories of buttons in menus Qsphere :

- that to achieve web resources (placed in the banner left of the main interface intelligence metadata) ;

- those for performing actions on the intelligence tables or lists.

In the first family, the content is set in the parameter QSphere: list of metadata servers and keywords.

In the second family, the content may be fixed or context. Example of the menu button in the contact management interface to specify which organization sent to the current contact (selected).

2.2 - Main Windows

2.2.1 - Main interface metadata input

The main window which serves for the metadata entry comprises three distinctive zones :

- The left banner
- The central zone (metadata)
- The down banner

Before the 2.14.3 release :

1. **<u>The left headband</u>:**

The left headband allows navigation between tabs of metadata.

It also restores information on the work session (file mode, number of open child windows, selected language).

It contains buttons for :

- Change Language for QSphere without restart QGIS ;
- Accessing the Web navigation interface Qsphere (many contexts) :
  - Open the Web Browser (default page defined in options) ;
  - View the current project in HTML view ;
  - Access metadata servers ;
  - Access keywords servers.
- Open the current project in the XML editor;
- Access the contact manager ;
- View options ;
- Access to help.

2. **<u>The central area (metadata)</u> :**

The central area includes metadata input fields and various buttons (stocks, assistant or single).

Refer to the item "Online help INSPIRE" and "Managing tables" for a description of actions.

3. The down banner :

The main action buttons are located in the lower part of the main interface.

These buttons:

- to query a layer loaded in the current session of QGIS (The tab "QGIS Metadata" is updated information from the layer and the grip tab of the line "Location" also. quelquesoit the coordinate system questioned layer, the terminals of the extent of the layer are rendered in longitude / latitude);
- move to the previous tab;
- select the tab to be achieved;
- moving to the next tab;
- create a metadata project;
- open a metadata project (QSP or XML) …
- reloading the current project ;
- to save the current project (QSP or XML);
- to open a menu with other safeguard actions:
  - Save metadata in the project;
  - Save a copy of the metadata project;
  - Save catalog attributes.
- to open a menu with actions for CSW-T (*) :
  - CSW-T connection to the server;
  - Close the CSWT session ;
  - Get all reporting for CSWT session ;
  - Get records in CSWT server ;
  - Adding a metadata record on the CSW-T server;
  - Update a metadata record on the CSW-T server;
  - Deleting a metadata record on the CSW-T server.
- Call the pages of the Metadata Entry Guide for INSPIRE ;
- Close the main window QSphere.

(*) All these commands are at the experimental stage.

4. CSWT :

For CSWT commands, you can work with a QSphere project as XML, or as the QSP not saved project (CSWT stream sent to the server). This use case remains inadvisable

(traceability, absent local backup copy ...).

It is imperative to connect to make accessible all the other CSWT orders.

If you change the default CSWT server in the "**Configuration interface for QSphere**", CSWT the current session is closed automatically.

Shares of reports are returned by the "XML Publisher" interface.

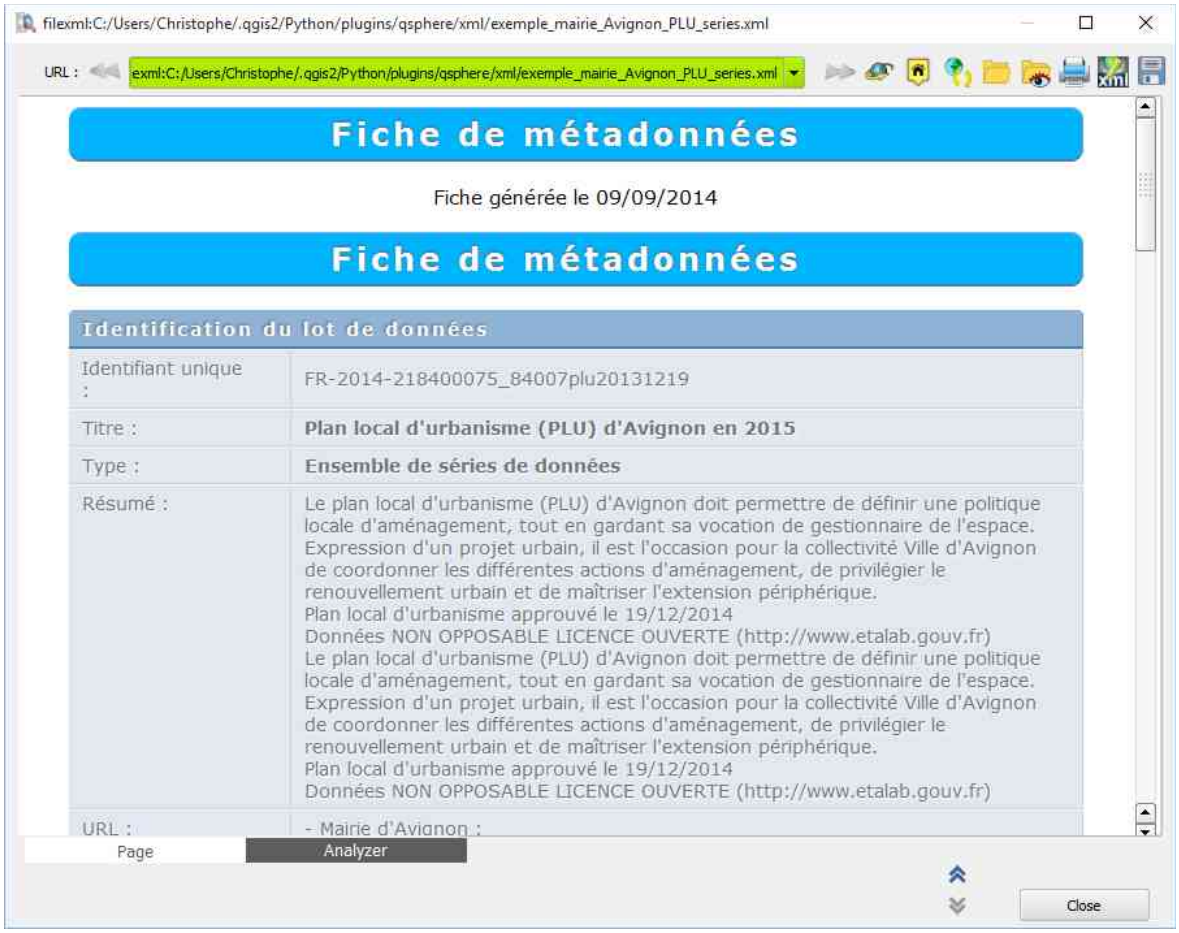
Since Version 2.14.3 :

The interface has been enhanced with 3 new buttons to switch between modes forms, rendering HTML and XML rendering.

Some buttons have been repositioned.

2.2.2 - Web browser interface

You have with QSphere an interface for reading the help files, XML files, FAQs and Web browsing.



In this interface, you have :

- the "Page" tab (visualization of the HTML page, XML, QSP);
- the "Analyzer" tab (introspection content of the HTML page, XML, QSP);
- a previous page button (action only on web browsing history);
- a next page button (action only on web browsing history);
- a "meet the url" button;
- a button back to the home page (home page navigation: using HMI help topic or QSphere INSPIRE - always local);
- a button reload the current page;
- a button to upload a file (HTML, XML ISO 19139 ...)
- a button to show / hide the file browser (HTML, XML ISO 19139 ...)
- a "Print" button the current page (preview);
- an "Edit XML ..." button (only on ISO 19139 XML consultation of files);

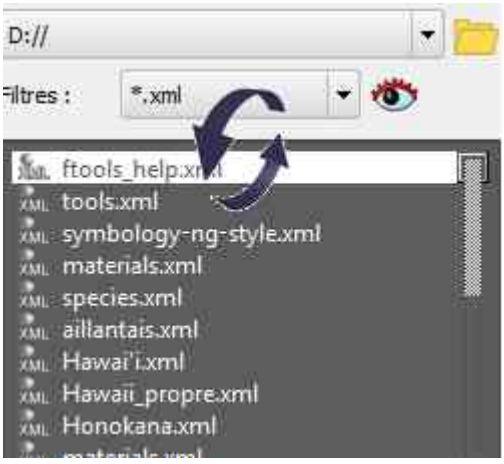
- a "Save as HTML ..." button (only on ISO 19139 XML consultation of files);
- a "Close" button Web browsing window QSphere.

	This button displays the file browser (HTML, XML ISO 19139, QS, PDF ...). The button takes the second aspect (with the cross) and allows a contrario to remove the display browser. The File Browser can be floating or docked. To dock or make it float, just double click on the browser's title bar.

In the file browser, you can :

- Select the directory for file searches ;
- Save the file types for research ;
- Select the desired type of file (for adding a type, you can enter it in the list box and tap the enter key) ;
- Start search ([1]) ;
- Change the mode of presentation of the results (tree or list) ;
- Extend or reduce the view of the tree mode ;
- View Files in the consultation area of the web pages or file information for non-supported formats ;
- Open the files by double-clicking in their application container (including an XML or QSphere QSP project) ;
- Specify a style sheet for XML ISO 19139 files ([2]).

([1]) While searching, an animation is displayed:



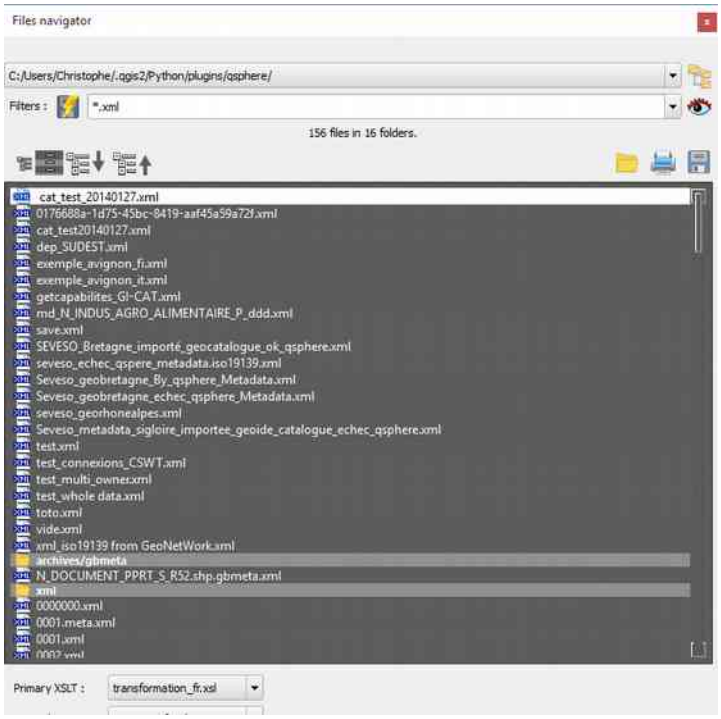
([2]) Two style sheets can be used: a primary and a secondary (emergency).

A green color indicates if the sheet was able to produce a correct HTML sheet.

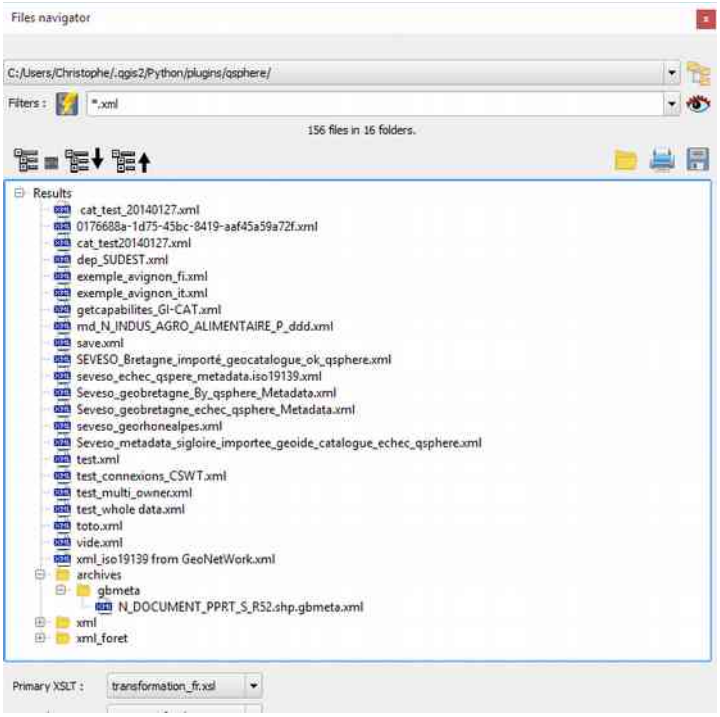
In case the use of two sheets produces no correct result, an error message is displayed in the consultation area Web pages.

Both modes synchronized :

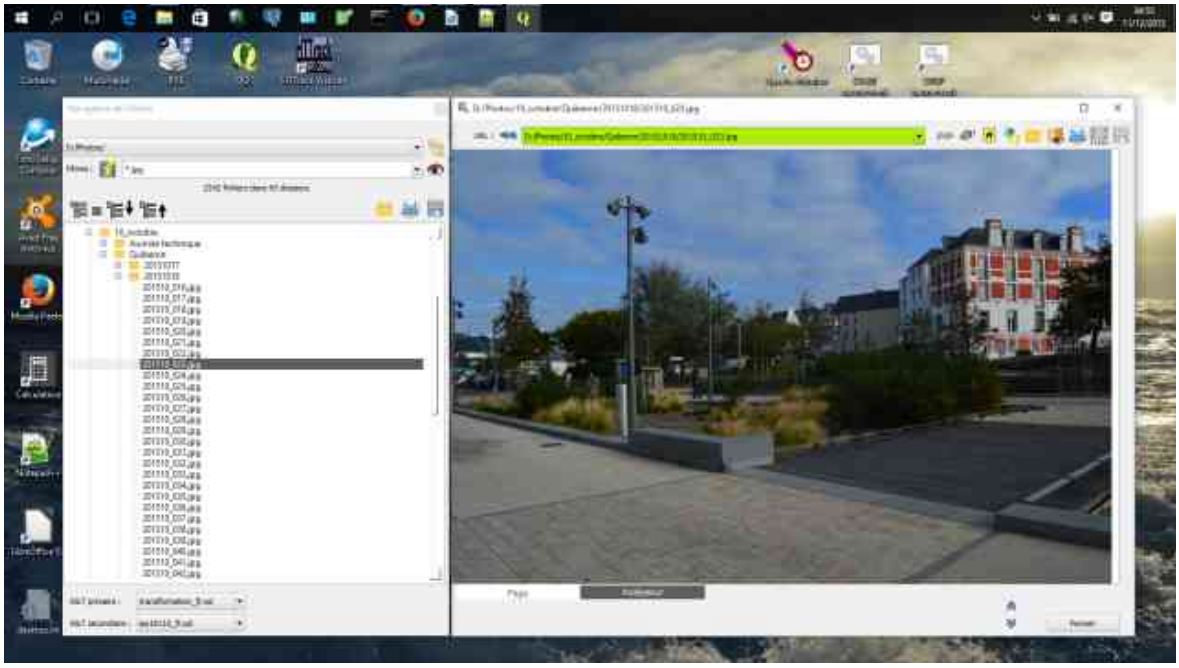
- List Mode :



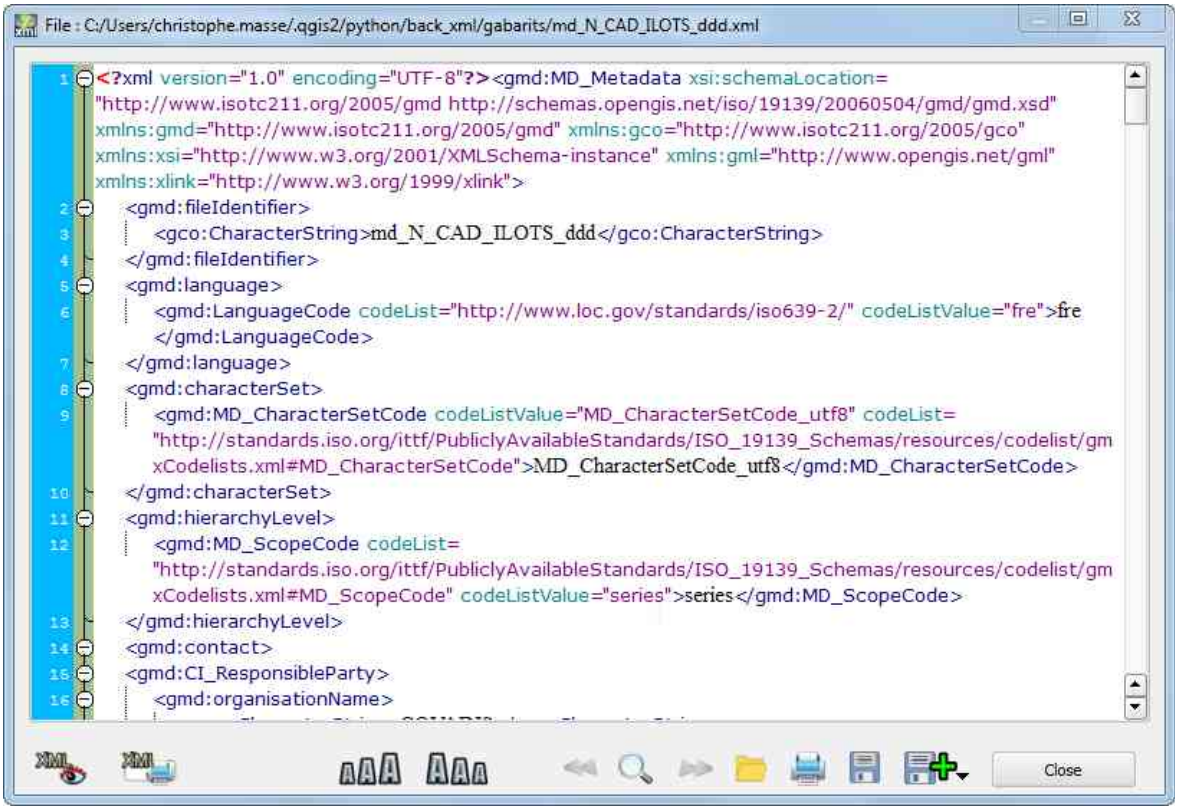
- Tree Mode :



Example of use : consulting a list of image files in JPG format.



2.2.3 - XML Editor



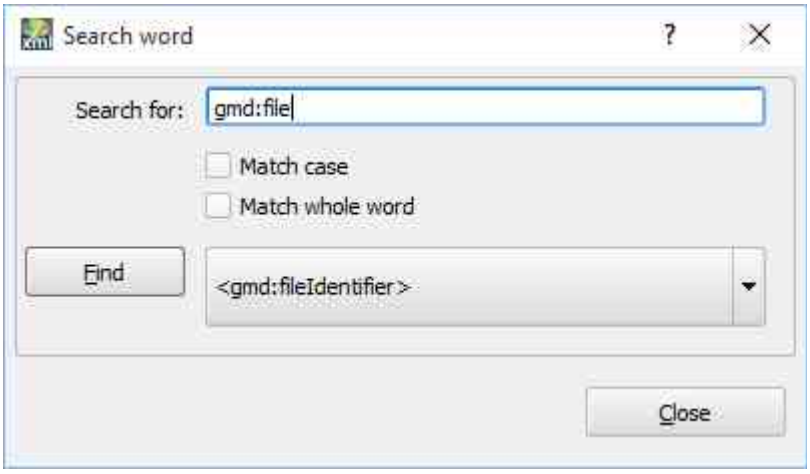
Since the 2.6.5 version of QSphere, an XML editor is available (Qscintilla library).

Changes made directly in this editor can be saved and immediately reflected on the file and the HTML visualization.

For advanced user only.

The interface has a few buttons in its lower part allowing :

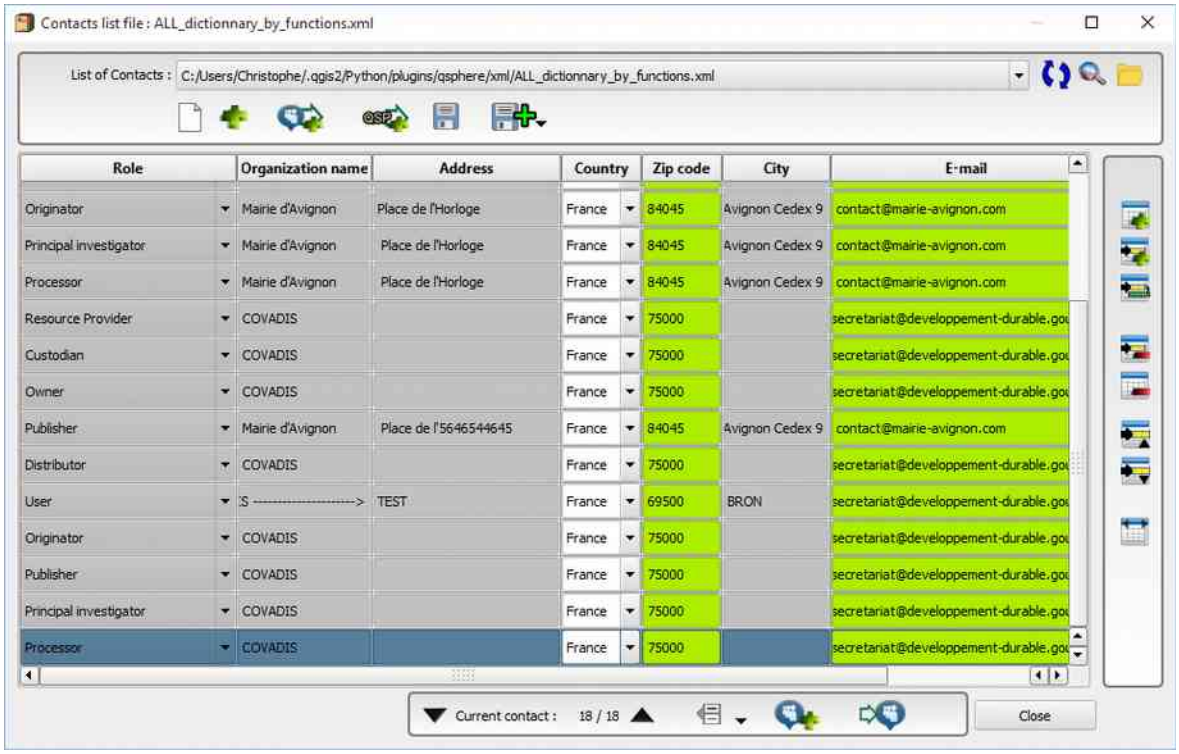
- Display and hide the XML parser Qsphere ;
- Increase text size ;
- Reduce the size of the text ;
- Searching text (previous case);
- Searching text (dialog with shares look / position);



- Searching text (next occurrence) ;
- Load an XML file ;
- Print the contents of the XML file without dressing ;
- Save changes to the XML file ;
- An action button for :
  - Save as XML file (becomes the current file) ;
  - Save a copy of the XML file.
- Close the interface.

	The interface also includes a headband that has left the internal controls of the extension and the results produced by the XML parser QSphere. Click on the button to display the banner and button to hide it. The headings of the information area includes a balloon whose content can be printed ("CTRL + SHIFT + P").

2.2.4 - Contact manager



Since version 2.6.4, QSphere has an interface for contact management.

It has three share button groups at the top, right and bottom.

The top concerns all file operations "lists" of contacts.

The buttons :

- choose from a list of a previously loaded contacts file;
- to view the contacts file - stabilized - HTML refund;
- to open a contacts file;
- to create a new contact file;
- adding a contacts file;
- import (add) contacts the main interface;
- import (add) contacts of a QSP file;
- save the contacts file;
- an action button for :
  - save as contacts file (becomes the current file) ;
  - to save a copy of the contact file.

The right applies to all operations in the list of contacts (central part).

The buttons :

- add a line at the end of the list;

- add a line after the current line;
- to duplicate the current line;
- delete the current line;
- to delete the last line;
- moving the current line upwardly;
- moving the current line down;
- to restore the original dimensions of the columns.

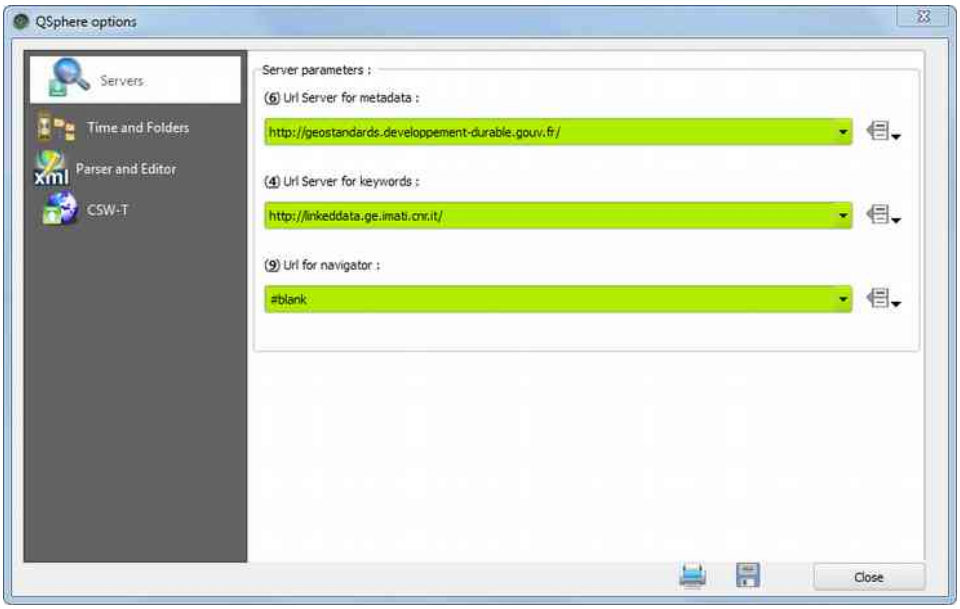
The bottom covers all operations on the reallocation of contacts to the main interface, plus buttons movements (current player pointer).

The buttons :

- assign the information to a target contact the main interface;
- add the contact as a new contact of the main interface;
- add all the contacts in the contacts of the main interface.

2.2.5 - Configuration interface of Qsphere

Since the 2.6.6 version of QSphere, an interface allows to set some options.



The interface has four sections with several buttons :

1. **« Servers » :**

- to inform the metadata servers (context menu on the "Download metadata");
- to inform the keywords or servers (context menu on the "Download metadata");

- fill in the list of basic servers in the Web browser history navigation.

To dial lists, an "actions" button is available to the right of the latter :

	to add a server address. To add an item to the list, enter the web address listed in the entry box, and then start the action "add"
	to remove a server address (selected item in the list)
	to move the current line up
	to move the current line down
	to check the validity of the server address
	to access the server through the web browser

Note: If the metadata server lists of keywords or servers are empty, the buttons open the web browser on a blank page.

2. **<u>« Time and Folders »</u> :**

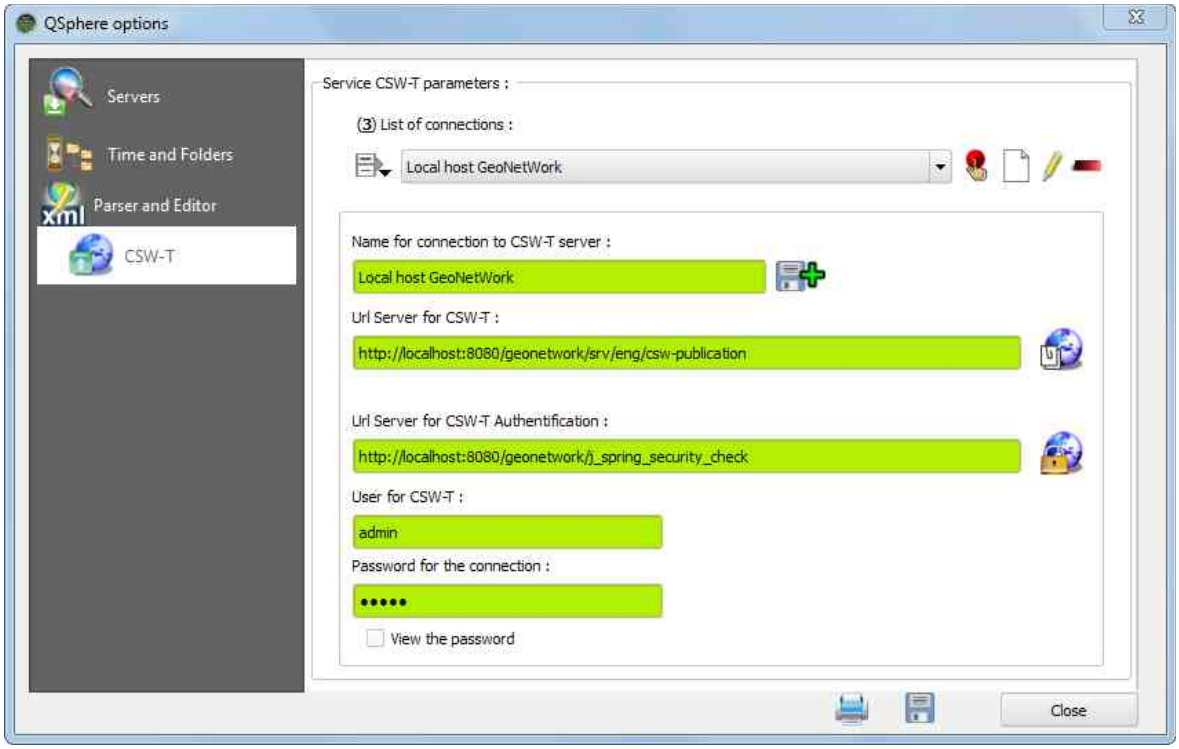
- Fill in the default directory for metadata files ;
- Configure the new option : «Don't erase project's comments with associative mode » (**QSphere 2.14.3**) ;
- To set the time of display of information messages;
- To set the warning messages display time;
- Adjust the polling time for checking the validity of a URL.

3. **<u>« Parser and Editor »</u> :**

- Fix the XML parser parameters:
  - Enable or disable auto-correct mode;
  - Choosing to work in flow mode or file mode for the corrected metadata;
  - Specify the directory where the files created stored (file mode).
- Set the parameters of the XML editor:

- Activate or deactivate the silent mode (alert messages on loading of non-compliant XML files);
- Enable or disable the display of the report for CSW-T transactions.

4. **« CSW-T » :**



Presence of an action button to :

- Import connections MetaSearch ;
- Import connections from an XML file ;
- Export connections in an XML file ;
- Clear all connections.

For obvious safety reasons, when exporting an XML file, user profile information is not exported.

Then there is the list of connections (stored using the QSettings class).

To the right of this list, four buttons for :

- Set the selected connection as the active selection;
- Create a new connection;
- Edit the selected connection;
- Delete the selected connection.

For connection, different information is to educate. Some are mandatory, others optional :

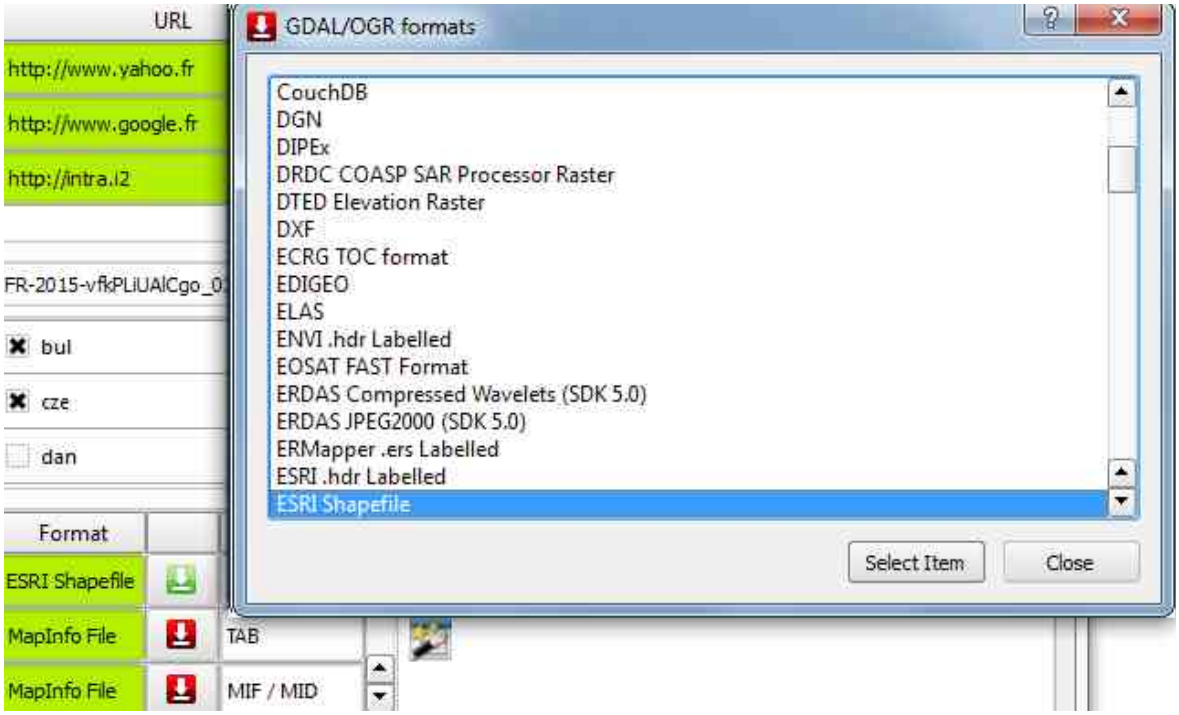
- A name for the connection (required). Besides this information, a button to save the changes (saving separated from other parameters);
- The main URL for the CSW-T server (mandatory) with a button to test the response of the server and get its capacity;
- The URL to connect to the server (mandatory) with a button to test the address;
- A name or user profile to connect (optional);
- A password associated with the user profile (not recommended);
- A check box to make legible the password on the screen.

Three buttons are available in the lower part of the dialog box that allow :

- Printing the configuration file (print preview);
- Save changes to the configuration file;
- To close the interface.

2.3 - Wizards

2.3.1 - The wizard to select formats

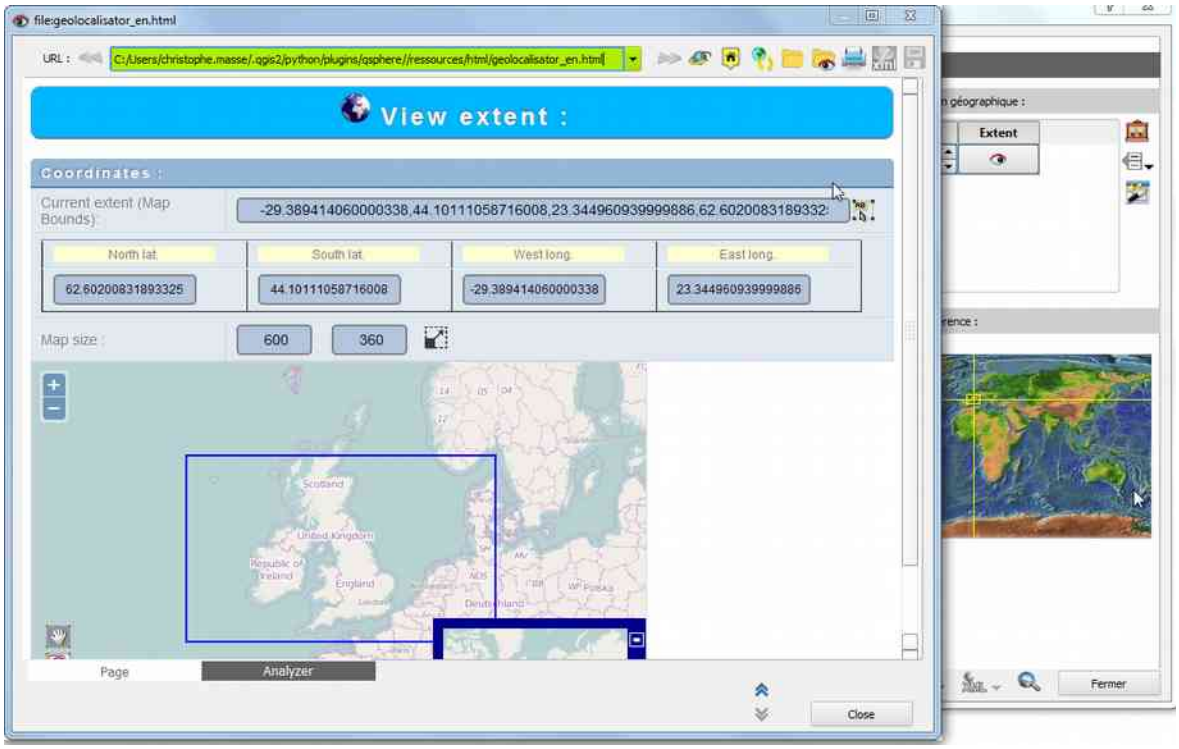


The wizard formats can be called from the button placed in the intelligence table formats. The format name remains a free text which can be empty (the area is colorized in red if this is the case). The wizard displays the list of **GDAL / OGR** formats present in the library in force in the distribution of QGIS. If the name is entered matches an item from this list, the item is selected.

We choose an item from the list by double-clicking or by selecting it and clicking the "**Select**

Item" button. This closes the wizard automatically.

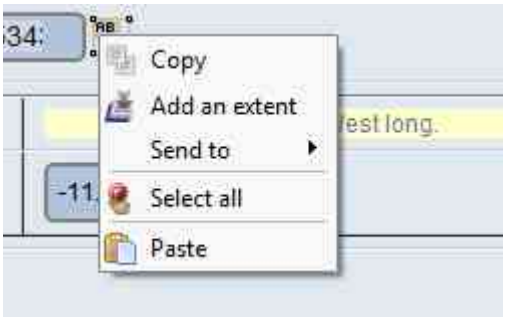
2.3.2 - The wizard to select geographical extents



QSPHERE implements in its web page using a browser OpenLayers technology and OpenStreetMap data to inform allowances associated with (x) datasets.

By right clicking, you can retrieve them from the grip limits defined in this web page to learn a hold of the main window. Button :

you can select the information beforehand (before the right click to access the contextual menu).

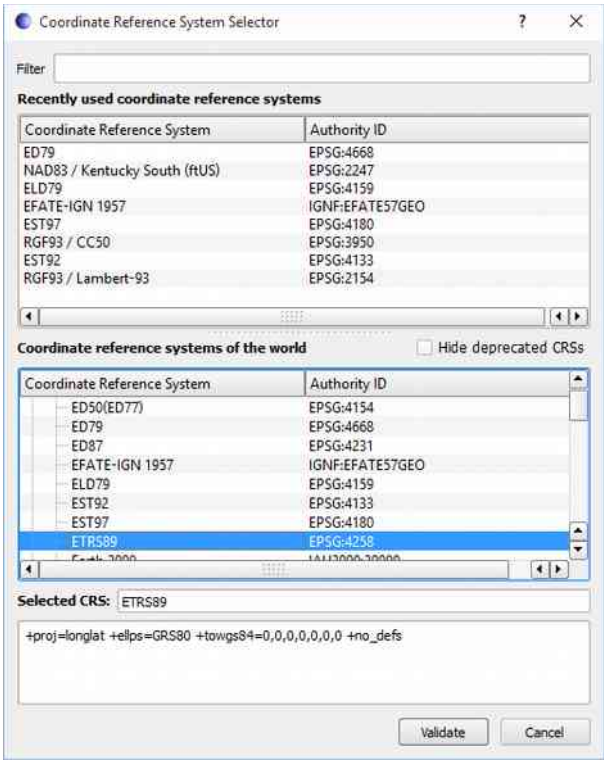


You can also adjust the size of the card to customize your grip (type of portrait or landscape rectangular, square type).

Enter the width and height and click on the image :

2.3.3 - The wizard for Coordinate Reference Systems (CRS)

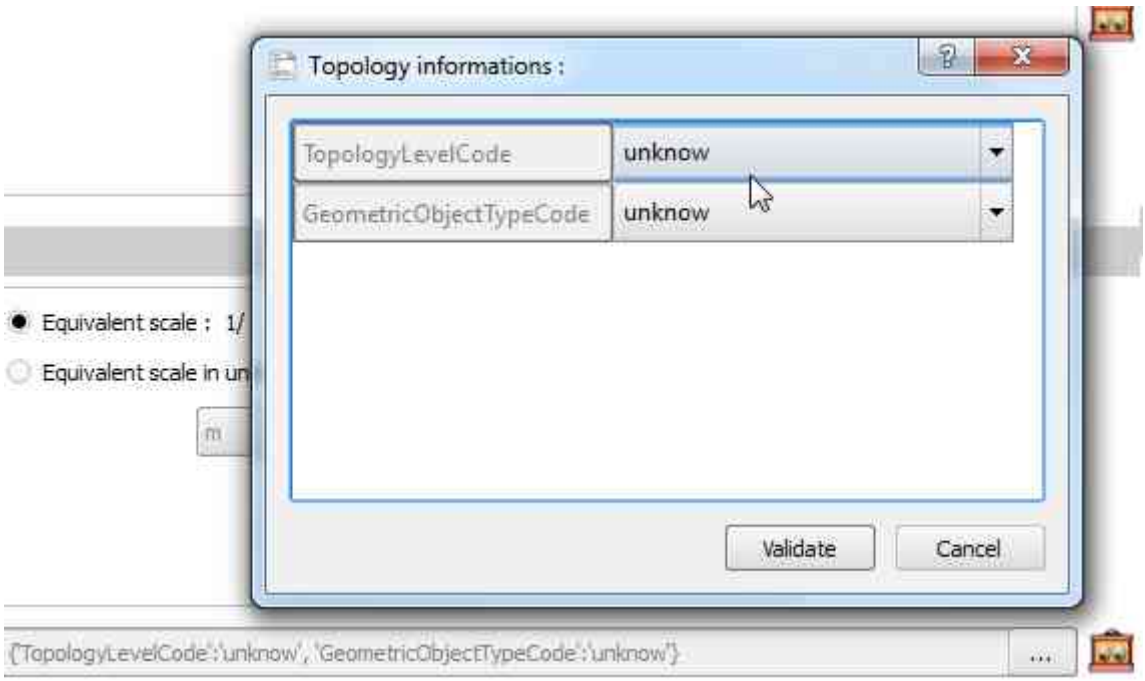
QSPHERE implements the native dialog QGIS to fill this metadata.



You can also directly type the EPSG code of the SCR in the table.

The validated the SCR is verified by a regular expression to formalism and by calling in the QgsCoordinateReferenceSystem class.

2.3.4 - The wizard for the topology



QSPHERE offers an interface to learn topological consistency.

This metadata element currently only the INSPIRE data theme Hydrography and Transport Networks.

Two drop-down lists to select the topological characteristics.

2.3.5 - The wizard for contacts

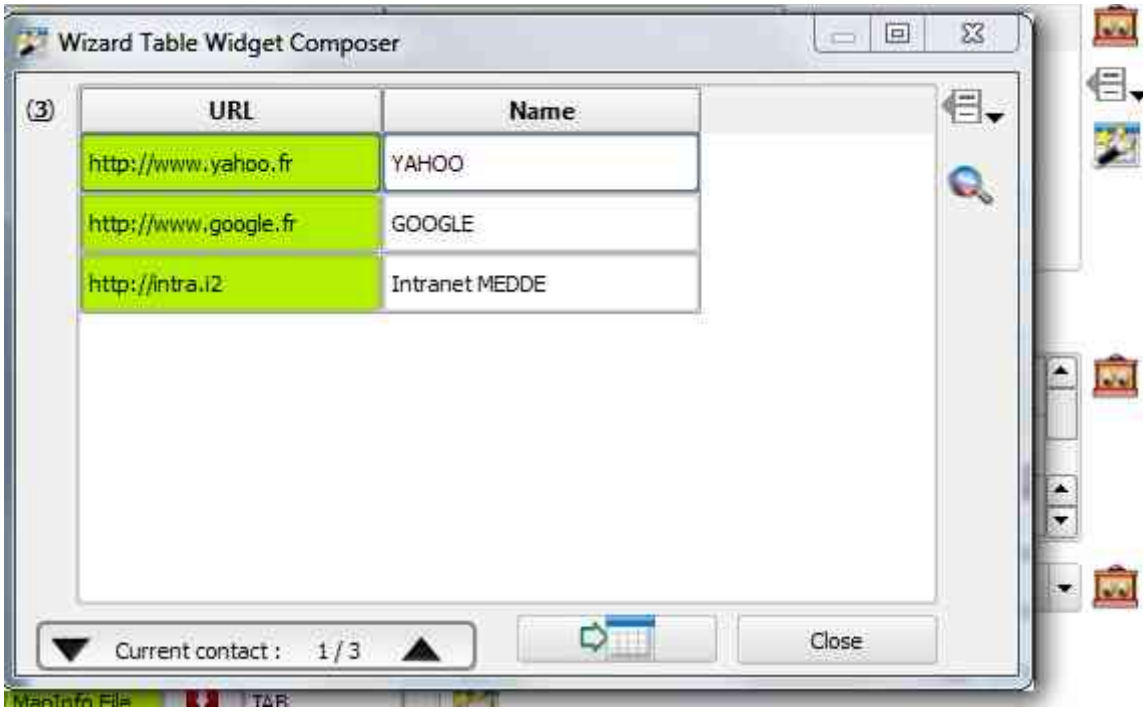
You can use both interfaces in "wizard" mode to inform contacts in metadata:

- The contact manager (see his column in the "Main Windows")
- The wizard for the table ‘s composition (next paragraph)

2.3.6 - The wizards for the table's composition

QSphere has two assistants for the composition tables.

1. **The grid type assistant**



The composition of a table wizard restores its content.

With the actions button at the top right of the window, you can :

- add a line at the end of the list ;
- add a line after the current line ;
- to duplicate the current line ;
- delete the current line ;
- to delete the last line ;
- moving the current line upwardly ;
- moving the current line down.

More specific actions in the original container of the main window metadata information. Example : validating and open a URL.

A button to open the QSphere browser is also available in the upper right side of the interface, except for the table of geographical footprints.

In the lower part of this dialog box, you have buttons for :

- Change the selected line of the table (up arrow and down);
- Return the composition to the container of the main window of metadata information;
- Close the dialog box.

Unlike the main window of intelligence metadata, this dialog is resizable. The adjustment of the cell size of the composition is automatic.

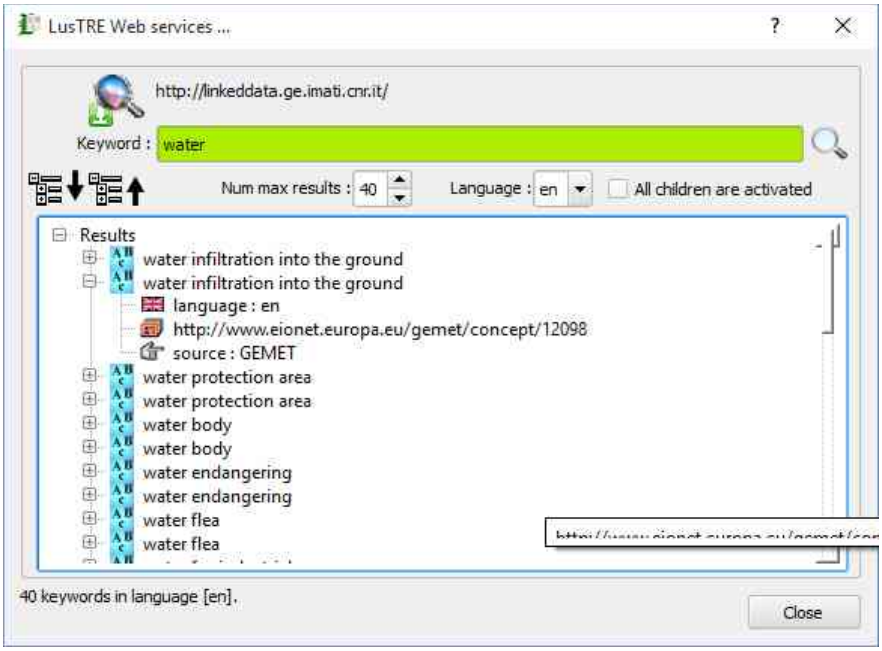
2. The standard form wizard

Orders are very similar with grid-type.

This wizard can only be resized in width.

2.3.7 - The LusTRE's wizard (for search keywords)

You have a wizard to search for keywords on Lustre (**Linked Thesaurus fRamework for Environment**). Enter the search term, the number of expected results (maximum 100). The default language is the language activated in QSphere. You can opt for another language. You can also enter a not-present language in the dropdown list.



Failing in restitution as a tree, only elements "keyword" and link "http: //" are active (double-click). "Keyword" adds a new word free key in the main window QSphere. "Http: //" opens the browser on the address of the site hosting the thesaurus to which the keyword is associated.

If "All children are activated", "language" and "source" open the browser search mode with the parameter value.

2.4 - Shortcuts

Keyboard shortcuts for QSphere's main menu and toolbar:

Ctrl + M: Open in main window's QSphere;

Ctrl + W: Open a web navigator window;

Ctrl + E: Open XML Editor;

Ctrl + G: Open the contacts Manager.

Keyboard shortcuts for the main window:

F1: Help Document;

F11 : Add a Line (end of table);

F12 : Delete the last line;

Ctrl + N: New project;

Ctrl + O: Open / load a project;

Ctrl + S: Save the current project;

Ctrl + Shift + S: Save as the current project;

Ctrl + Shift + C: Save a copy for the current project;

Ctrl + W: Open the CSWT menu.

Keyboard shortcuts for tables (contacts and wizard's table):

F11 : Add a Line (end of table);

F12 : Delete the last line;

Ctrl ++: Add a line after the current line;

Ctrl + C: Duplicate the current line (add after current line);

Ctrl + X: Delete the current line;

Up arrow: Move up (current selection);

Down arrow: Move down (current selection);

Previous page: Move the line up;

Next page: Move down the line;

Ctrl + A: Original size for the columns.

Keyboard shortcuts for dialog box "Options":

F1: Help Document;

Ctrl + S: Save options;

Ctrl + P: Preview for print file "options.ini".

Keyboard shortcuts for web navigators:

F1: Help Document;

F5: Reload current page;

F2: Previous page (browsing history);

F3: Next page (browsing history);

Ctrl + H: Home;

Ctrl + O: Open a file;

Ctrl + E: Open WML editor;

Ctrl + S: Save an XML file in HTML format;

Ctrl + P: Preview print for current page.

Keyboard shortcuts for XML editor:

F1: Help Document;

Key "+": Increase font size;

Key "-": Reduce font size;

F2: Find previous;

Ctrl + F: Search text;

F3: Find next;

Ctrl + O: Open a file;

Ctrl + S: Save the current file;

Ctrl + I Show / hide inspector XML;

Ctrl + P: Preview print for current file;

Maj + Ctrl + P: Preview print for information about properties for tooltips area's XML parser's metatags.

3 - Controls

3.1 - Controlled entry areas

Controlled entry areas are colorized :

- The red color indicates no entry or incorrect entry;
- Green indicates a correct entry (semantically speaking).

Note that these controls are not coercive. Clearly, Qsphere will not prevent the creation of even metadata with controlled entry areas supposedly incorrect. This mode of operation is from the origin of the extension, its first educational purpose

Some examples of input-controlled areas :

- The URL input box in the "Identification" tab;
- The names of the formats in the "Identification" tab;
- The dates under «Classification and keywords" and "Temporal Reference";
- Postal code, email address in the "Responsible organizations" tab;
- ...

The controls are based on verification of regular expressions, but sometimes have other verification elements :

- Checking the validity of a URL (server response)
- Calculating a temporal extent (over days or difference equal to 0);
- Validity of a projection system (QgsCoordinateReferenceSystem);
- ....

For addresses of CSW-T Publishers, address identified to be valid must end :

- « ***csw-publication*** » ;
- « ***csw-all*** »
- « ***csw*** ».

For authentication addresses on CSW-T Publishers, presence-end URL "***j_spring_security_check***" allows QSphere distinguish calls for GeoNetwork 2.10 or GeoNetwork 3.0 .

3.2 - Regular expressions

Expression	*Information*
^[\w.-]+@[\w.-]+\.[a-zA-Z]{2,6}$	**e-mail**
^(([0-8][0-9])|(9[0-5]))[0-9]{3}$	**Zip codes**
^EPSG:+[0-9]{4,6}$	**Projection system**
^(http|https|ftp)\://[a-zA-Z0-9\-\.]+.[\w]{2,4}(:[a-zA-Z0-9]*)?/?([a-zA-Z0-9\-\._\?\,\'/\\\+&%\$#\=~])*$	**Web URL**

4 - How to ?

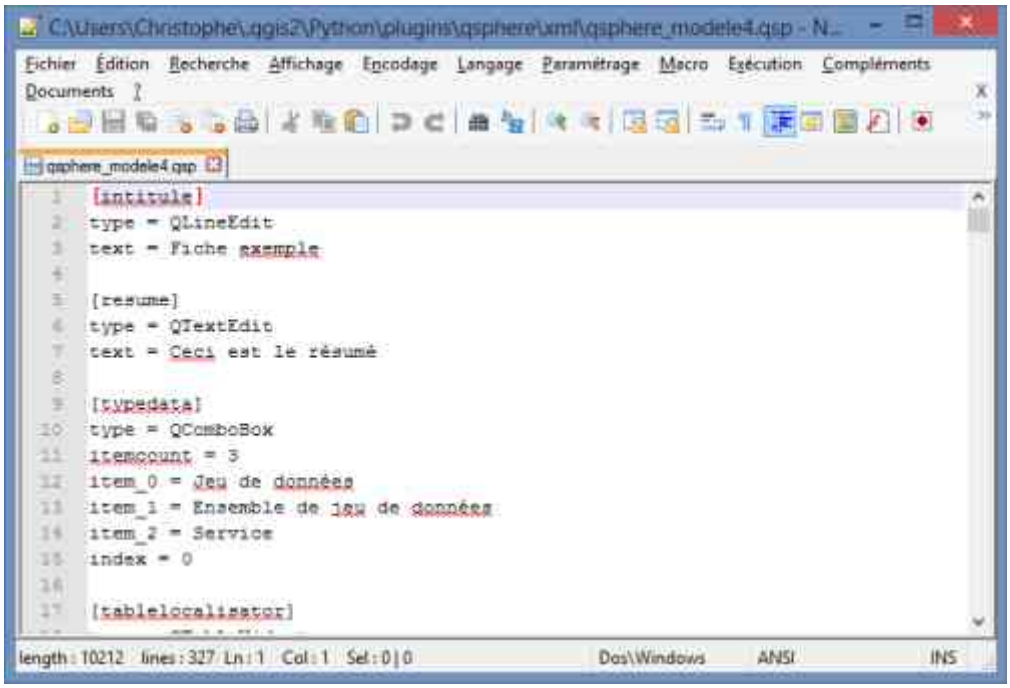
4.1 - Projects

The QSP files (QSphere Projects) are structured text files.

Since the first version of QSphere, these files have undergone profound changes.

Therefore, do not try to load QSP files from older versions.

Internal controls in place will lead to an incomplete loading old files.



Now QSphere can also work seamlessly with XML files.

However, only the QSP format ensures full recovery of stored information (eg the catalog attributes).

All orders on QSP projects are within the same for XML files.

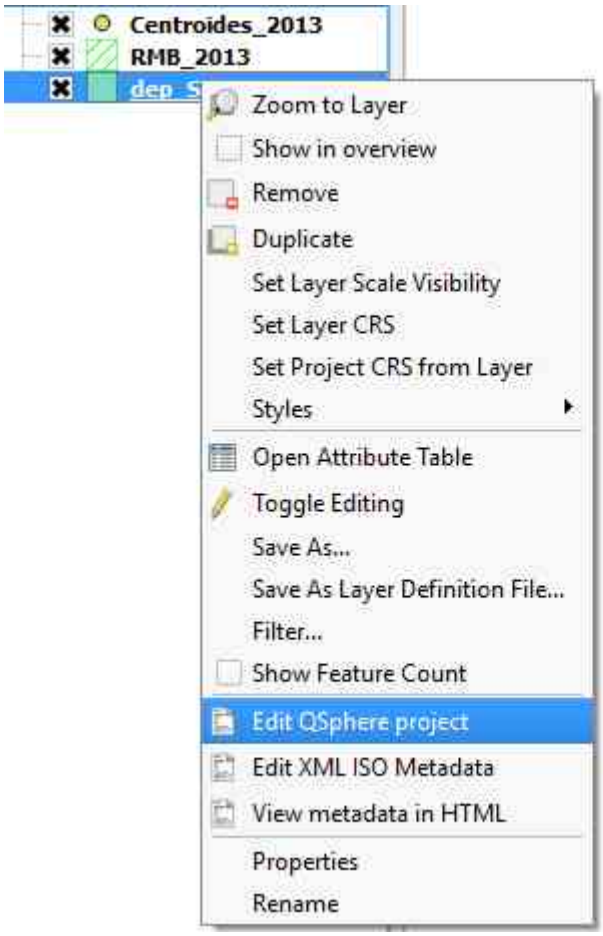
Refer to the section interfaces for a complete description of the features of the metadata entry interface.

4.1.1 - Open Project (metadata file)

QSphere with two possibilities to open and edit a metadata file (XML or QSP):

- Since a layer loaded in the QGIS session (Legend window and right click) - [**associative mode**];
- From the main interface of the extension (icon) - [**Standalone**].

Associative mode :



Warning : the behavior is not identical in terms of result.

- In the first case, the project is loaded (if available and stored in the same place as the JDD). GetMetadata then made on the layer that carries the metadata. This GetMetadata charging structure including the attribute of "QGIS Metadata" tab ;
- In the second case, the project is responsible indépendement any active link with the layer that carries the metadata.

4.1.2 - Why restore the comments?

Comments are the elements provided by the layer. Under QGIS, it is not possible to modify the post directly. QSphere to generate comments for a layer but are saved either in a QSP file or in the XML file that contains the definition of attributes (catalog). When reloading a project in association with the data layer (first use case described above), the function queries GetMetadata layer after loading the QSP.

If comments are empty, they are lost in the main interface. This button allows recharging.

Warning : [**associative mode**] Do not save your FAQs before recharging the comments! Otherwise, they will be lost!

Warning : [**associative mode**] The catalog file can not be used to recharge the comments.

4.1.3 - Scanning of files

QSphere scans files (QSP or XML) that meet the following naming rules.

Examples :

- md_N_CAD_ILOTS_ddd.XML for N_CAD_ILOTS_ddd.TAB
- md_N_CAD_ILOTS_ddd.meta.XML for N_CAD_ILOTS_ddd.TAB;
- md_N_CAD_ILOTS_ddd.meta.XML for CAD_ILOTS_ddd.TAB;
- N_CAD_ILOTS_ddd.meta.XML for N_CAD_ILOTS_ddd.TAB;
- N_CAD_ILOTS_ddd.QSP for N_CAD_ILOTS_ddd.TAB.

Of course, the commands to XML is only available for projects in XML format.

Detecting the one and the other format is dissociated. The three commands can be fully available (QSP and XML alongside JDD).

Order of the scan :

- Extension : .xml then .meta.xml

Then the file name:

- path (complete without extension layer) + Extension;
- way (without the layer name) + "MD_" + filename (without extension layer) + Extension;
- path (complete without extension layer) + ".qsp" + Extension;
- way (without the layer name) + "MD_" + filename (without extension layer) + ".qsp" + Extension.

Choose a single rule for naming files!

4.2 - Personalize QSphere ...

4.2.1 - The configuration files

Some lists are supplied with parameters to CSV files placed in the réperoire under "Resources" of the extension.

Warning: you can adapt the content to your local contexts (internationalization, adding elements ...), but you must keep the defined structure.

To internationalization of a resource file, simply modify the content and save with a name of the language suffix information on two characters.

Example :

File roles for lead agencies (stakeholders)

- roles_en.csv;
- roles_fr.csv;
- roles_fi.csv;
- roles_de.csv;
- roles_it.csv;
- roles_es.csv.

There is also a "roles.csv" file which is in English, native language of the extension. For languages other than the six supported

4.2.2 - The files of the INSPIRE metadata entry guide

The topics of INSPIRE aid does not meet the naming rules described in the previous paragraph.

The non-suffixed file, default resource is not in English but in French.

For internationalization of this input help INSPIRE metadata, it will be necessary to make copies of files PRIOR with the suffix "_en".

Example :

categorie_thematique.html copied categorie_thematique_fr.html ...

4.2.3 - Thesaurus

QSphere embarks thesauri referenced on the European INSPIRE website.

You can add a thesaurus using the following steps :

- Edit the "thesaurus.csv" file;
- Add a new line at the end with the title for the new thesaurus (observe the number of columns!)

thesaurus.csv

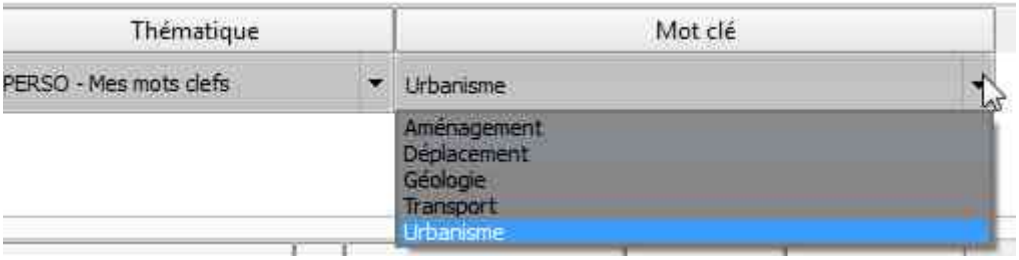
```
"2008-06-01";"GEMET - INSPIRE Themes"
"2010-01-13";"GEMET - Concepts, version 2.4"
"2010-01-13";"GEMET - Groups, version 2.4"
"2010-01-13";"GEMET - Supergroups, version 2.4"
"2010-01-13";"GEMET - Themes, version 2.4"
"2011-05-01";"GEOSS - Earth Observation Vocabulary, version 1.0"
"2010-08-25";"GEOSS - Societal Benefit Area, version 1.0"
"2010-01-19";"INSPIRE - Feature Concept Dictionnary, version 3"
"2010-01-12";"INSPIRE - Glossary, version 3"
"2015-05-01";"PERSO - Mes mots clefs"
```

- Create a new thesaurus file (if this is your first creation (x = 9), "thesaurus_x.csv" in the "Resources" folder;
- Enter your keywords in the "thesaurus_x.csv" file.

thesaurus_9.csv

```
"Aménagement"
"Déplacement"
"Géologie"
"Transport"
"Urbanisme"
```

- In the main window QSphere, thesaurus appears in the list of thesaurus.



Warning, this setting is unique to you! If you want to share these items, consider providing Files "thesaurus.csv" and "thesaurus_x.csv".

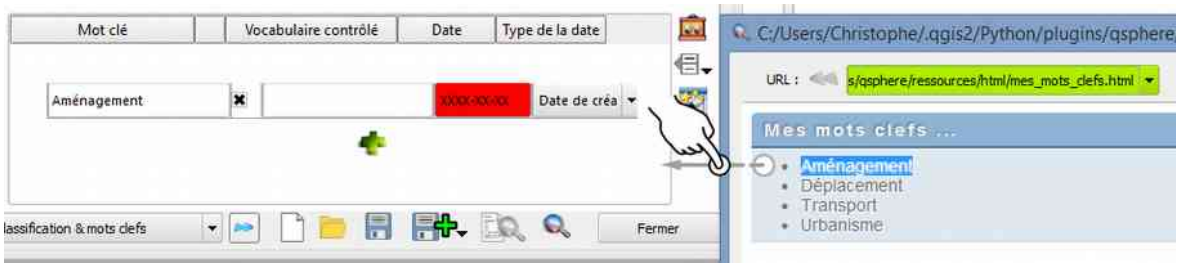
Remember that normally the keywords proposed in this space belong to thesaurus "institutional" and / or "thematic".

```
<gmd:descriptiveKeywords>
    <gmd:MD_Keywords>
        <gmd:keyword>
            <gco:CharacterString>Aménagement</gco:CharacterString>
        </gmd:keyword>
        <gmd:thesaurusName>
            <gmd:CI_Citation>
                <gmd:title>
                    <gco:CharacterString>PERSONNAL INSPIRE - Glossary, version 1</gco:CharacterString>
                </gmd:title>
                <gmd:date>
                    <gmd:CI_Date>
                        <gmd:date>
                            <gco:Date>2015-05-06</gco:Date>
                        </gmd:date>
                        <gmd:dateType>
                            <gmd:CI_DateTypeCode codeList="http://standards.iso.org/ittf/PubliclyAvaila
                        </gmd:dateType>
```

An alternative solution is the HTML page "mes_mots_clefs" present in the "resources / html".

You can make any changes you want in this file !

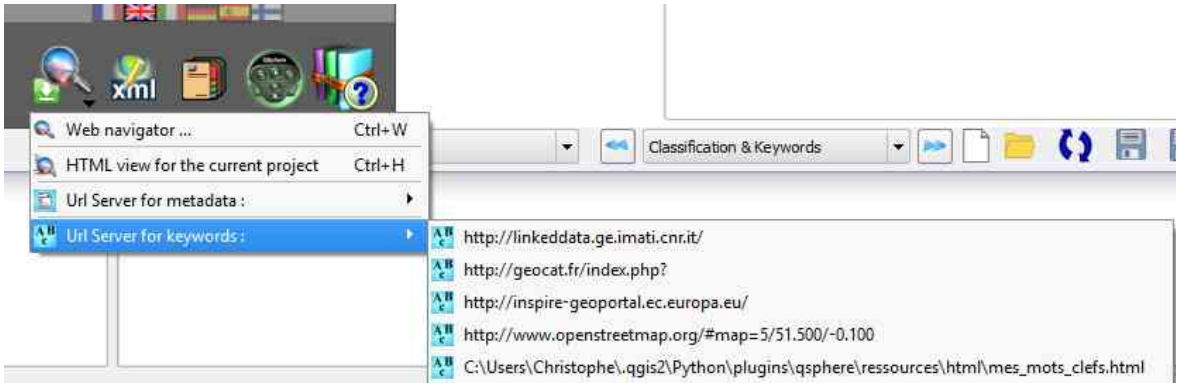
Use the drag / drop the table to feed additional keywords (main window and web browser window facing)!



To reference the "mes_mots_clefs.html" present in the "resources / html" as a keyword server, follow these steps :

- In the list of keywords of servers in the dialog "Options", type or paste the physical address of the file "mes_mots_clefs.html";

- The entry box remains red because the local address does not comply with the formality of a URL. This is not blocking. Reminder: checks by regular expressions are not under QSphere blockers!
- Add the server (command menu associated with the "actions" button to the drop-down list);
- Save the changes! ;
- Return to the main window, the button "List of key words servers" this action to the file "mes_mots_clefs.html".



4.2.4 - XSL style files

XSL style files are stored in the sub-réperoire "xml / xsl".

You can add, delete ...

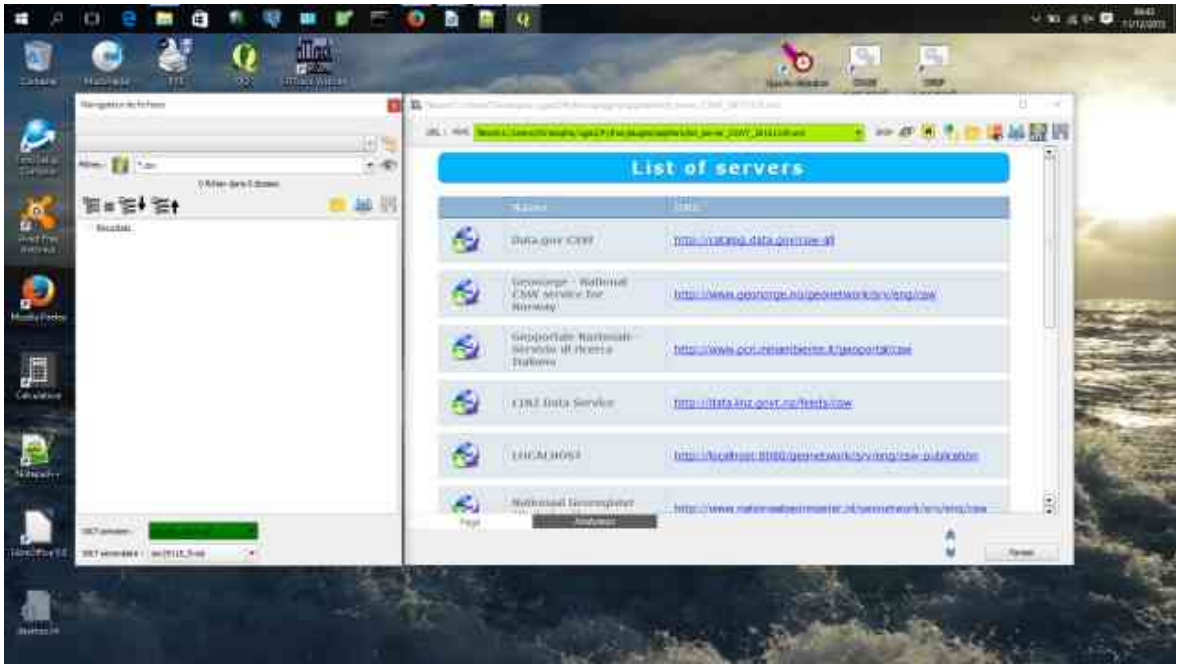
These files are used for the HTML output XML files. QSphere is provided with the following style sheet :

- contacts.xsl
- contacts_fr.xsl
- generic_iso19115.xsl
- iso19115.xsl
- iso19115_fr.xsl
- prodige_fr.xsl
- qsphere_form.xsl
- qsphere_form_fr.xsl
- qsphere_print.xsl
- qsphere_print_fr.xsl
- servers_cswt.xsl
- transformation.xsl
- transformation_fr.xsl

The stylesheet « **transformation_xx.xsl** » is that used in default when viewing an XML file, unless it is identified by QSphere as a contact file. In the latter case, the style sheet « **contacts_xx.xsl** » applies.

To attribute catalogs, the stylesheet « **transformation_xx.xsl** » addresses the need for restitution.

For an XML file backup list CSWT servers, the style sheet "servers_cswt.xsl" allows the following restitution :



4.3 - Get Metadata

With the Web browser interface, you have the ability to access and repatriate external elements.

Refer to the section interfaces for a complete description of the features of the web browser.

Below, some examples of referenced sites.

4.3.1 - Catalogues and templates sites

http://catalogue.geo-ide.developpement-durable.gouv.fr/

http://geostandards.developpement-durable.gouv.fr/

4.3.2 - ISO validation sites

http://www.geocatalogue.fr/#!ServicesValidationMD

http://inspire-geoportal.ec.europa.eu/validator2/

4.3.3 - The information sites INSPIRE

http://inspire-geoportal.ec.europa.eu/

http://cnig.gouv.fr/

http://geocat.fr/index.php?

4.3.4 - Regional platforms

http://www.georhonealpes.fr/accueil

http://www.geobourgogne.fr/

http://www.sigloire.fr/

4.3.5 - Other resources

http://www.openstreetmap.org/#map=5/51.500/-0.100

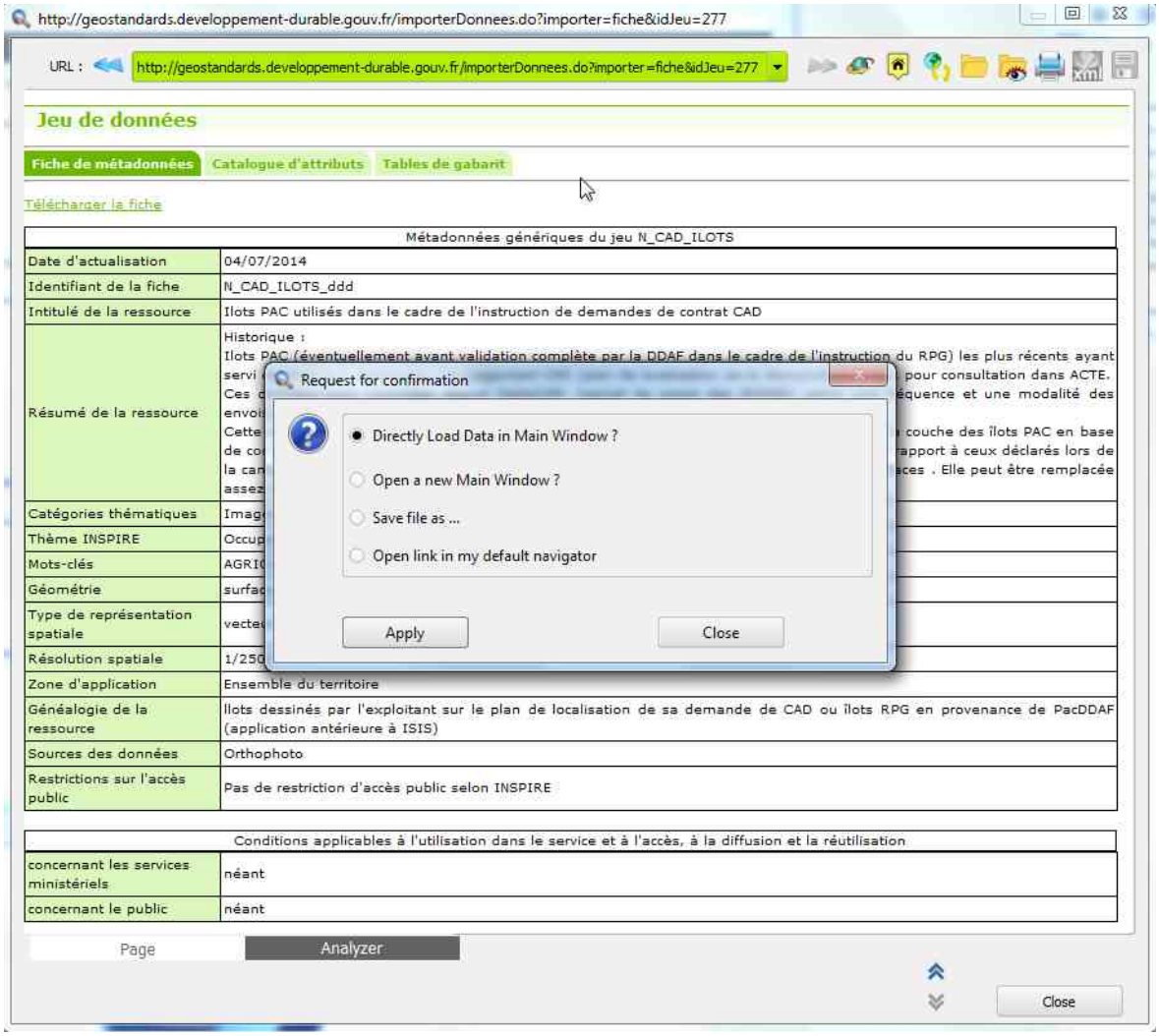
4.3.6 - Download metadata with QSphere

With QSphere, you can send metadata to a server GeoNetwork by CSW services, but you can also download metadata from the catalog servers. The procedure is as follows:

- From a browser window QSphere, enter the URL of a server ;
- Search your metadata ;
- Click the link "Download metadata" or "XML metadata" (variable according to the consultation site).

The following dialog box appears :

Choose the desired treatment among the three or four proposals. The first choice is available only when a main window is "associated" with the web browser window.



Choose the desired treatment among the three or four proposals. The first choice is available only when a main window is "associated" with the web browser window.

The download URL formalism may vary from one website to another. QSphere can know in advance all these particularities.

If a link to an XML file does not open the above dialog box, you are in this case. To change the behavior of QSphere, change the "**query_url.csv**" file in the subdirectory "**ressources**" by adding the last part of the URL and removing all characters after the first "**=**" sign.

Example :

For :

http://geostandards.developpement-durable.gouv.fr/**importerDonnees.do?importer**=fiche&idJeu=277

It will be necessary to add the item :

« **importerDonnees.do?importer** »

Qt

Qt