

Specific contract n°07.0201/2014/SFRA/698614/ENV.C.2 implementing Framework Service Contract ENV.D.2/FRA/2012/0013: “Expanding the Urban Wastewater Structured Information and Implementation Framework (SIIF) via: Improvement of the SIIF IT toolbox and Extension of the Urban Waste Water Directive (UWWTD) SIIF approach to four new Member States.”

UWWTD SIIF national toolbox

How to manage the UWWTD SIIF toolbox



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1 Introduction

This document is intended to help the administrators of the web portal perform the primary tasks needed for a well-functioning website:

- User login
- Importing a new dataset
- Managing errors
- Modifying whole datasets
- Modifying single data elements
- Deleting whole datasets
- Deleting single data elements
- Translating the website
- Creating and setting up webservice
- Creating and publishing layers
- Giving access to the web services and accessing with a GIS Software

This document presumes you have already installed your server and all the necessary requirements detailed in the document 'UWWTD-SIIF-installation-centos.doc'.

To summarise the requirements:

- a Centos/Red Hat server with at least 2 Go of RAM,
- some development tools,
- an Apache 2 webserver with PHP 5.3,
- the GeoPHP libraries,
- uploadprogress and dbase pecl modules,
- the installation kit with database dump and website sources
- the database : Postgres 8.4 or 9.x with Postgis extension (version > 1.5) ,
- the website : Drupal 7,
- the map server : Geoserver.

On the website, configuration and administration guides are available at the address: [www.\[your site url\]/admin/help](http://www.[your site url]/admin/help)

2 Key aspects of administration

2.1 User connection

Prior to any administration task on the web portal, user registration has to be operated.

Go to the address [www.\[your site url\]/user](http://www.[your site url]/user) and type your ID and password.





If you have not yet changed your default password your login and password will be:

- login: admin
- password: admin

We strongly recommend that you change this password as soon as possible as explained in the previous document 'UWWTD-SIIF-installation-centos.doc' provided with the installation kit.

Once connected a new menu appear just below the main menu. This menu is the editorial menu allowing you quick access to all the main administration tasks.

2.2 Managing data

2.2.1 Importing or Adding UWWTD article 15 data and/or GIS files of receiving areas for a given year

Objective: adding a UWWTD dataset for a new year.

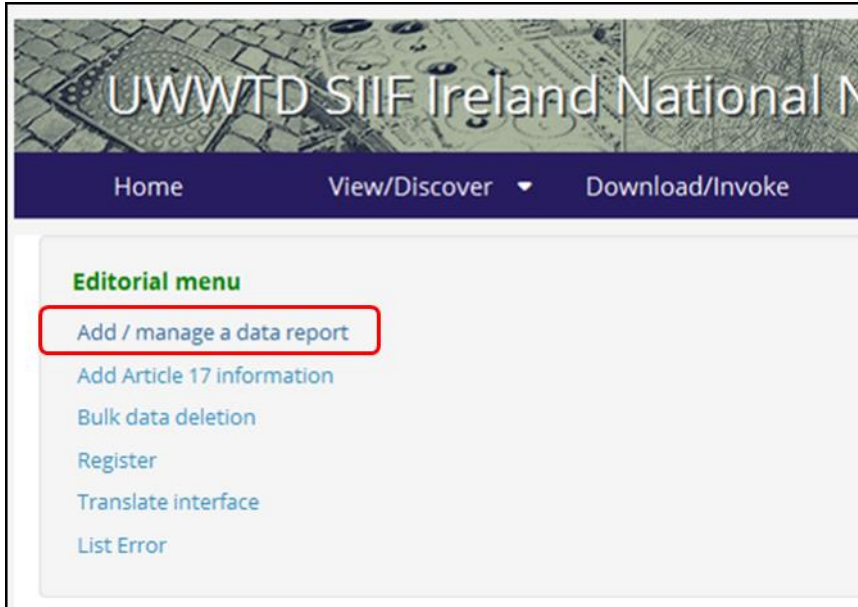




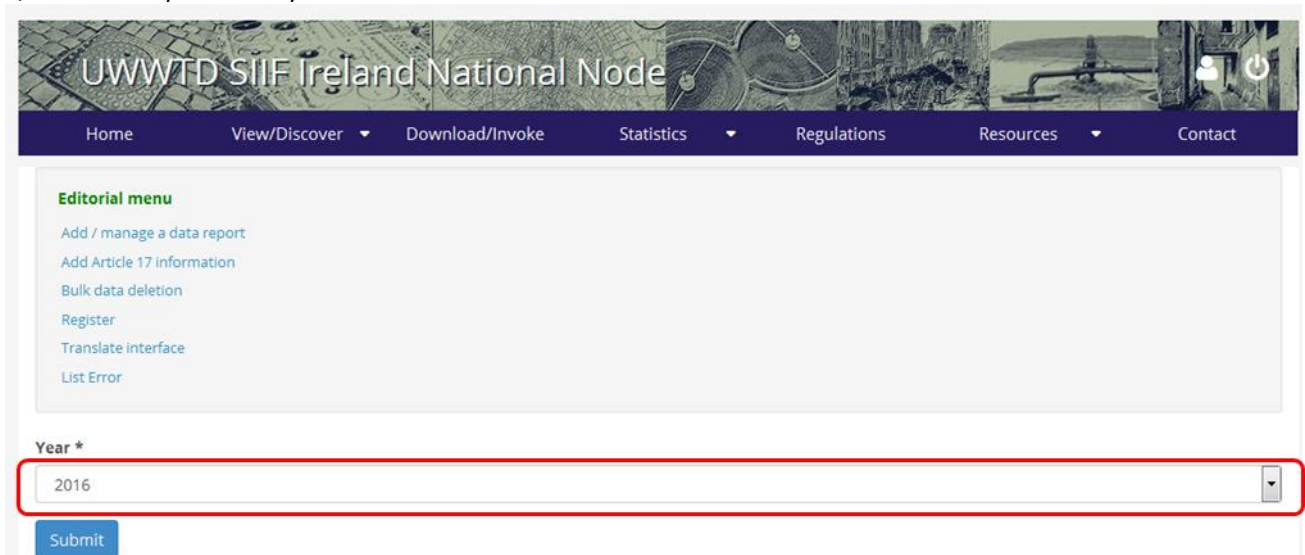
To add data for a new year you must either have:

- A European validate .XML file containing all the information necessary.
- A compressed .ZIP file containing all the individual .CSV files for all the necessary tables of data.
- A compressed .ZIP file containing all the geometry data in the form of a .SHP file and the other necessary files.

1/ Connect as an administrator of the system and select add/manage a data report



2/ Choose the year which your data concerns





3/ Select the European validated XML file or a compressed .ZIP file containing all the .CSV files used to construct a valid XML file and click on “upload”, and once finished click on “continue” at bottom of the page.

The screenshot shows the 'UWWTD SIIF Ireland National Node' website. The navigation bar includes 'Home', 'View/Discover', 'Download/Invoke', 'Statistics', 'Regulations', 'Resources', and 'Contact'. Below the navigation bar is an 'Editorial menu' with links: 'Add / manage a data report', 'Add Article 17 information', 'Bulk data deletion', 'Register', 'Translate interface', and 'List Error'. The main content area is titled 'Data import for the year : 2016' and contains the instruction: 'To import your dataset please either upload an xml with all the data or a compressed (zipped) file with all the csv files correctly formatted. All the files must be encoded in UTF-8 to avoid confusion with special characters.' Below this is a 'Data file *' section with a file selection box containing 'Parcourir...' and 'Aucun fichier sélectionné.', a 'Submit' button, and an 'Upload' button. A note below the form says: 'Once finished uploading or to skip this step, please click the continue link below.' with a 'Continue' link.

4/ Select the compressed .ZIP file containing all the .SHP files needed for your country’s geographical zones and click on “upload”, and once finished click on “continue” at bottom of the page.

The screenshot shows the 'UWWTD SIIF Ireland National Node' website. The navigation bar is the same as in the previous screenshot. Below the navigation bar is an 'Editorial menu' with the same links. The main content area is titled 'Receiving areas shapes upload for the year : 2016' and contains the instruction: 'Please upload the files that contain the information on the sensitive areas.' Below this is a 'Data file *' section with a file selection box containing 'Parcourir...' and 'Aucun fichier sélectionné.', a 'Submit' button, and an 'Upload' button. A note below the form says: 'Once finished uploading your shapes files or to skip this step, please click the continue link below.' with a 'Continue' link.

5/ Click the submit button to launch the import.





2.2.2 Managing errors

Once you have finished importing a dataset it may be possible that some errors have occurred due to missing or poorly formatted data.

To address these errors a table has been created to be able to correctly view them.

1/ Click the editorial menu link 'List error'

2/ Sort and select the errors for deletion

Once on the error management page you can view any error that may have occurred and see which data element they concern.

The screenshot shows the UWWTD SIIF Ireland National Node website. The header features the title 'UWWTD SIIF Ireland National Node' and navigation links: Home, View/Discover, Download/Invoke, and Statistics. Below the header is an 'Editorial menu' with the following links: Add / manage a data report, Add Article 17 information, Bulk data deletion, Register, Translate interface, and List Error (highlighted with a red box). Below the menu is a section for 'Data verification for the year : 2016' with a 'Submit' button.

You can sort them or select the type of errors you want to look at. After having solved the issues or if you simply want to ignore them, please delete them by selecting them from the table shown below and clicking delete.





UWWTD SIIF Ireland National Node

Home View/Discover Download/Invoke Statistics Regulations Resources Contact

Editorial menu

- Add / manage a data report
- Add Article 17 information
- Bulk data deletion
- Register
- Translate interface
- List Error

Error list

year date type category Sort by Order

- Any - Is between - Any - import c date Desc Apply

And

Once criteria entered click on the “Apply” button and you obtain a table listing the issues and a link to the individual fiche where the exact issue is detailed:

errld	year	date	category	type	error	Title	Broken handler
42966	2012	2015-10-07 17:34:51	import data input	warning	No discharge point WFD sub unit reference date information found.	Tradaree Waste Water Treatment Plant	uwwt_d_import_errors.vIEWS_bulk_operations
42965	2012	2015-10-07 17:34:51	import data input	warning	No discharge point remarks information found.	Tradaree Waste Water Treatment Plant	
42964	2012	2015-10-07 17:34:51	import data input	warning	No discharge point WFD river basin district connexion information found.	Tradaree Waste Water Treatment Plant	
42963	2012	2015-10-07 17:34:51	import data input	warning	No discharge point ID of WFD sub-unit information found.	Tradaree Waste Water Treatment Plant	
42962	2012	2015-10-07 17:34:51	import data input	warning	No discharge point ID of WFD groundwater body type information found.	Tradaree Waste Water Treatment Plant	
42961	2012	2015-10-07 17:34:51	import data input	warning	No discharge point Has the Commission formally accepts that the conditions of art. 6 (2) are met information found.	Tradaree Waste Water Treatment Plant	





2.2.3 Modification or suppression of a single element for a given year

CAUTION! Be aware you are responsible for the coherence of the national dataset. To insure this, you will certainly have to correct the national dataset and report it on Eionet again to avoid inconsistencies between the publically available national and European dataset. The normal process should be:

- **identification of a set of modifications /corrections needed on the dataset for one or more years**
- **correction of the dataset(s)**
- **submission to the dedicated CDR envelope(s)**
- **import of the new xml file(s) on the UWWTD SIIF platform**
- **recalculation of compliance**

The import and calculation functions of the toolbox require only small manual operations and allow delete and replace a dataset by another one and recalculate the compliance, and this option should be preferred.

However, the UWWTD SIIF toolbox allows you to modify or delete a single element for a given year and this is described hereunder. If you decide to modify an element directly in the website, be sure that it will be coherent with the content of last national dataset to avoid incoherence between the reported data and the visualization of them.

After identifying an error or if you simply want to change some of the information provided by the dataset then you will need to modify the element concerned. You may also wish to delete an element from the website.

1/ To modify or delete an element, first go to the relevant page for the element and the correct year.

The URL will be constructed in the following format: `http://www.[website base address]/[year of data]/[type of data]/[element site id]`

Example: `http://www.uwwtd_pl/2013/agglomeration/pldo023`

2/ Then click the Drupal link to modify the element.

Translate interface

View **Edit** Devel

Agglomeration : **Kowary** - Identifier : **PLDO023** - Status : **Active** - Reporting year : **2013**
Region (NUTS) Code : PL112 - Region (NUTS) Name : PL112

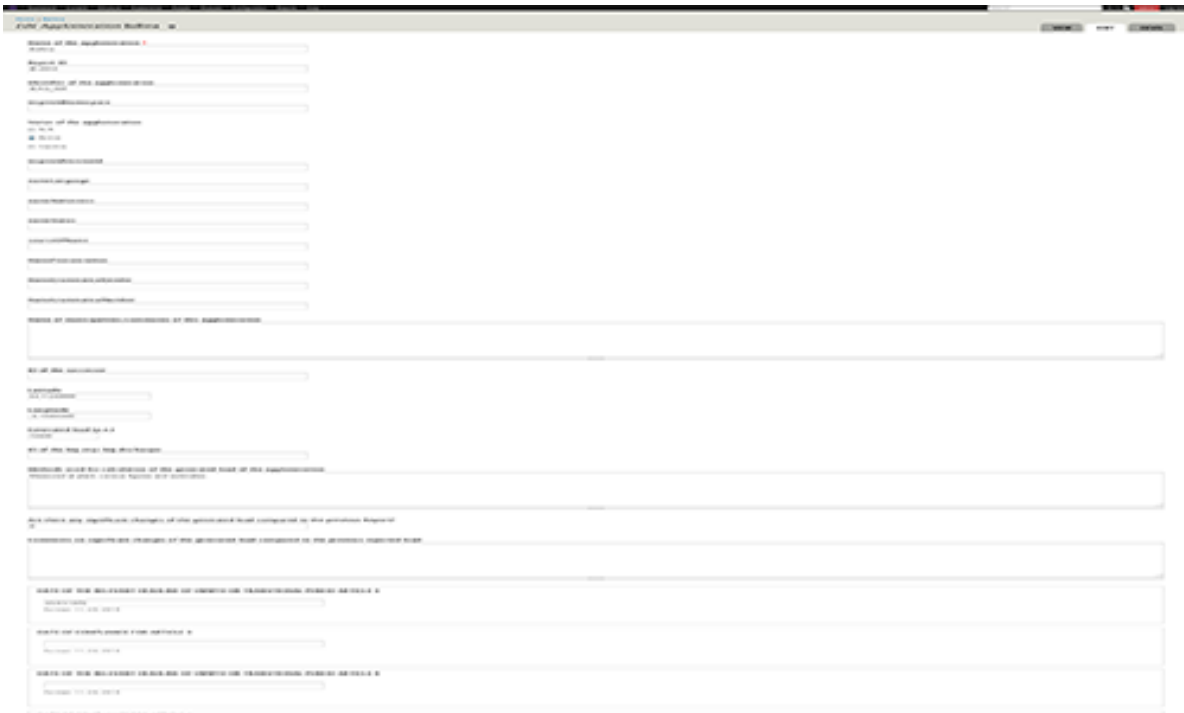
Map: Plan Satellite

Description 2013	
Generated load (p.e.): 25 000	Compli Article Article Article
Collective system: 40.00 %	
Individual and Appropriate Systems (IAS): Not provided	
Discharge without treatment: 60.00 %	





3/ You will now have a list of all the data for the element which you can either edit or delete.



2.2.4 Modification of data for a given year

It is also possible to modify an entire dataset for a given year. This can be useful when trying to import a revision for a given year where a large amount of data was incorrect. Please be careful, once validated there is no possibility to come back to previous version except by reprocessing everything. You will need to have the rights to do this.

1/ Select the 'Add / manage a data report' main menu link.





2/ Select and submit the European validated XML file or compressed .ZIP file containing the appropriate .CSV files.

By uploading again a dataset you will modify the data contained in each of the year's data and therefore allow you to modify any wrong information on a large scale.

Please note that this will not affect any previously calculated information concerning the conformity of any elements nor will it delete any.

3/ You may now wish to reevaluate the conformity of your data.

Having changed some of the information in your dataset it is recommended but not obligatory that you rescan your dataset to calculate the conformity.

To achieve this you can skip the next step 'import of .SHP files' by clicking on the link 'continue' to the end.

2.2.5 Deletion of data for a given year

1/ You must first go to the following address: [your site base url]/destroy-data or to the Bulk data deletion menu in the administration menu. You will need to have the rights to do this.

2/ Once on this page you can select the year you wish to destroy plus the type of data.

Site unique ID	Type	Title	
2013_uww_PLPL0370	UWWTP	Rajgrad	<input type="checkbox"/>
2013_uww_PLPL0360	UWWTP	Nowa Łuka	<input type="checkbox"/>
2013_uww_PLPL0332	UWWTP	BOS 100	<input type="checkbox"/>
2013_uww_PLPL0311	UWWTP	Hydrocentrum	<input type="checkbox"/>
2013_uww_PLPL0310	UWWTP	Knyszyn	<input type="checkbox"/>
2013_uww_PLPL0290	UWWTP	Stawiski	<input type="checkbox"/>
2013_uww_PLPL0270	UWWTP	Szczuczyn	<input type="checkbox"/>
2013_uww_PLPL0260	UWWTP	HYDROCENTRUM	<input type="checkbox"/>
2013_uww_PLPL0240	UWWTP	Narewka	<input type="checkbox"/>
2013_uww_PLPL0230	UWWTP	Krypno	<input type="checkbox"/>
2013_uww_PLPL0220	UWWTP	Oczyszczalnia sciekow w Ciechanowcu	<input type="checkbox"/>

Please note you can delete an entire data file by selecting all types of data for the year.

3/ Next click on the "submit" button to proceed to deleting the elements selected. **PROCEED CAREFULLY with this function, there is no safety net, no recovery is possible once you click!**





Data deletion

Type

Year of data

2013

Agglomeration
Agglomeration UWWTP data
Article
Article 17
Basic page
Big city
Discharge point
Error

Operations

- Choose an operation -

Site unique ID	Type	Title	
2013_uww_PLPL0370	UWWTP	Rajgrad	<input type="checkbox"/>
2013_uww_PLPL0360	UWWTP	Nowa Łuka	<input type="checkbox"/>
2013_uww_PLPL0332	UWWTP	BOS 100	<input type="checkbox"/>
2013_uww_PLPL0311	UWWTP	Hydrocentrum	<input type="checkbox"/>

2.2.6 Importing or Adding UWWTD article 17 data for a given year

2.2.6.1. Create your Excel file

To insert article 17 information you will need to first create correct Excel file. To begin this step click on “Add Article 17 information”.

Once done you will notice a link to a pre-filled file: you need to first click on the link to launch the generation of the file. Once done, you can download it by clicking on the link that states “get the article 17 pre-filled file for year XX” and it will open in excel.

The file contains the data already imported with the Article 15 xml file (see section 2.2.1 above). Please fill out the file with all your information without modifying the layout and then save it.

2.2.6.2. Upload the new Excel file

Next upload the newly created Excel file using the file browser and click the ‘submit’ button.

Dashboard Content Structure Appearance People Modules Configuration Reports Help

Search 0 / 1

[Add / manage a data report](#)
[Add Article 17 information](#)
[Bulk data deletion](#)
[Register](#)
[Translate interface](#)
[List Error](#)

Article 17 import for the year : 2012

Your CSV file must be correctly formatted using ';' as the cell separator and '"' as the text separator. The file must be encoded in UTF-8 to ensure character readability.

To help help you having to make your own files we have created for you a file for both the agglomerations and the treatment plants:

- [Article 17 pre-filled file \(mandatory\)](#)

Data file *

Aucun fichier sélectionné.

Service request funded by the European Commission (Directorate General Environment)
Expanding the Urban Wastewater Structured Information and Implementation Framework (SIIF) – n°: 07.0201/2014/SFRA/698614
/ENV.C2 – date:02/01/2015 to 1/01/2016

MINISTRY
LOGO

Once completed, the data should be made visible on the agglomeration and treatment plant fiches with information (check with the “Article 17” filter on the dedicated webpages).

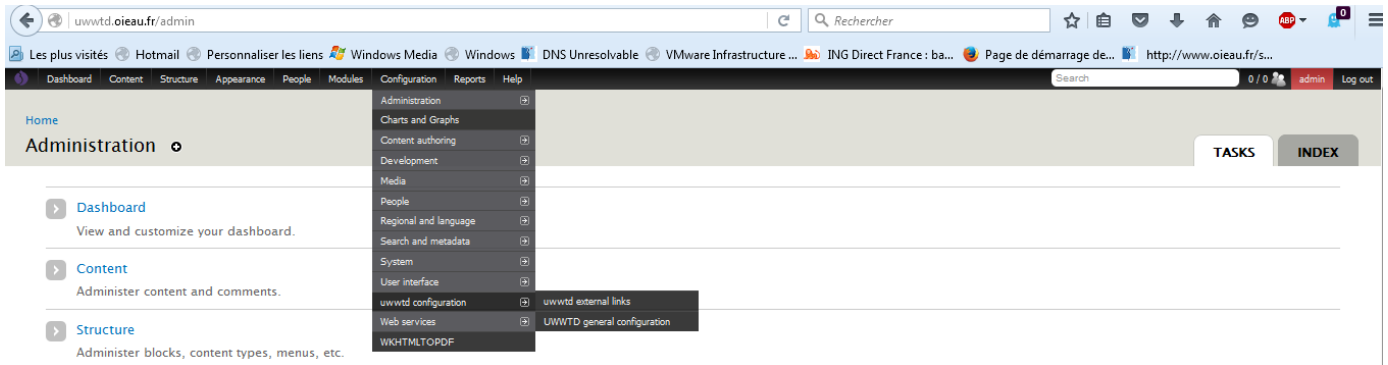




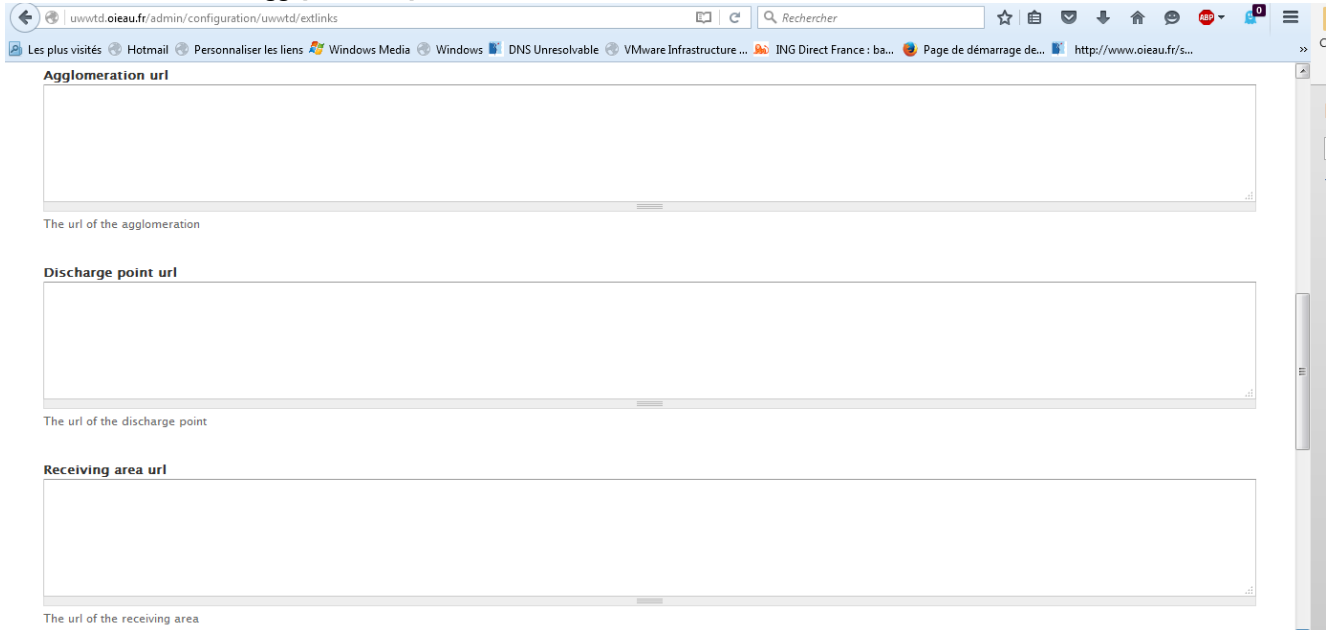
2.2.7 Add external links

If a national portal is giving information on the individual objects in a structured manner: Agglomeration, Treatment plant, discharge point or receiving area and uses at least one key information available in the dataset reported to Europe (ideally the IDCode but the name might be also possible), the system allows to include a link to it in the fiches.

This is done via the following configuration menu:



Which brings you to the following page where you can enter the structure of the link for each type of fiche. For instance you can enter in the box Agglomeration url a text of the form: `www.YOURWEB-SITE.com/wastewater/agg/[Identifiant]`



2.2.8 Calculate the national Register

Before to start this, perform a flush of all cached data to insure everything is clean. To clear all the cached data on your platform please hover your mouse over the Drupal logo situated to the far left of the admin menu and click on 'flush all caches'.





The tool includes a module to automatically generate the national register used to elaborate the national chapter of the EU Commission implementation report. To generate this you simply need to click on “Register” and follow the instruction (select the year, re-calculate if already exists).

2.2.9 Perform a flush of all the cached data

To insure everything runs smoothly, and once all previous steps are implemented, you need to flush all cached data. To clear all the cached data on your platform please hover your mouse over the Drupal logo situated to the far left of the admin menu and click on ‘flush all caches’.

2.3 Add a new language

To be able to translate the text users will see when connecting to the web portal, you must first install a new language to be used.

1/ Navigate to [yourwebsite]/admin/config/regional/language

2/ Click on the link ‘Add language’

Home » Administration » Configuration » Regional and language
Languages LIST DETECTION

With multiple languages enabled, interface text can be translated, registered users may select their preferred language, and authors can assign a specific language to content. [Download contributed translations](#) from Drupal.org.

Warning: Changing the default language may have unwanted effects on string translations. Check also the [source language](#) for translations and read more about [String translation](#).

[+ Add language](#)

ENGLISH NAME	NATIVE NAME	CODE	DIRECTION	ENABLED	DEFAULT
+ English	English	en	Left to right	<input checked="" type="checkbox"/>	<input type="radio"/>
+ Polish	Polski	pl	Left to right	<input checked="" type="checkbox"/>	<input type="radio"/>

3/ Choose your language and click ‘Add language’ (this may take a few minutes)

Home » Administration » Configuration » Regional and language » Languages LIST

Add a language to be supported by your site. If your desired language is not available in the *Language name* drop-down, click *Custom language* and provide a language code and other details manually. When providing a language code, since this code may be used by browsers to determine an appropriate display language.

PREDEFINED LANGUAGE

Language name
Abkhazian (аԥсуа бызшәа)

Use the *Custom language* section below if your desired language does not appear in this list.

CUSTOM LANGUAGE

4/ You can now configure which language to be used by default and if you choose you can disable others.





Home » Administration » Configuration » Regional and language

Languages o LIST DETECTION

With multiple languages enabled, interface text can be translated, registered users may select their preferred language, and authors can assign a specific language to content. [Download contributed translations](#) from Drupal.org.

Warning: Changing the default language may have unwanted effects on string translations. Check also the [source language](#) for translations and read more about [String translation](#)

[+ Add language](#)

ENGLISH NAME	NATIVE NAME	CODE	DIRECTION	ENABLED	DEFAULT
+ English	English	en	Left to right	<input checked="" type="checkbox"/>	<input type="radio"/>
+ Polish	Polski	pl	Left to right	<input checked="" type="checkbox"/>	<input type="radio"/>

[Save configuration](#)

2.4 Translating a word or phrase

To start translating your interface, please first see the section of how to add a language to your Drupal installation.

You can either translate the entire text or you may wish to translate a certain expression that you found on the portal. In such case, you can use the “search” function of the translation interface to find back an expression. In both cases, you can translate as described in the following.

1/ After the last step, to translate the interface you must head to the page found at [your site base url]/admin/config/regional/translate/translate.

You will land on a page that lists all the strings already translated.

WARNING: If you have just connected to the web portal be sure to remove ‘/user’ from the URL before.

Home » Administration » Configuration » Regional and language » Translate interface

Translate interface o OVERVIEW TRANSLATE IMPORT EXPORT EXPORT

This page offers a translator to search for specific translated and untranslated strings, and is used when creating or adding translations. Please. For translation tasks involving many strings, it may be more convenient to export strings for offline editing in a desktop Calibre translation editor. Search for strings located in a specific text group or in a specific language.

SEARCH TRANSLATABLE STRINGS

String contains:

Scan back to show all strings. The search is case sensitive.

Language: Search in:

TEXT GROUP	STRING	CONTEXT	LANGUAGES	OPERATIONS
Built-in interface	Are Ajax HTTP error occurred		en	edit delete
Built-in interface	HTTP Request Code: <i>xxxxxx</i>		en	edit delete
Built-in interface	Are Ajax HTTP requests terminated abnormally		en	edit delete
Built-in interface	Debugging information follows		en	edit delete
Built-in interface	Path: <i>xxxx</i>		en	edit delete
Built-in interface	Status: <i>xxxx</i> / <i>xxxx</i> / <i>xxxx</i>		en	edit delete
Built-in interface	Response: <i>xxxx</i> / <i>xxxx</i> / <i>xxxx</i>		en	edit delete
Built-in interface	Result: <i>xxxx</i> / <i>xxxx</i> / <i>xxxx</i>		en	edit delete
Built-in interface	File: <i>xxxx</i>		en	edit delete
Built-in interface	Show		en	edit delete
Built-in interface	Hide		en	edit delete
Built-in interface	Development		en	edit delete
Built-in interface	Administration		en	edit delete
Built-in interface	Search		en	edit delete
Built-in interface	Home		en	edit delete
Built-in interface	Weight		en	edit delete
Built-in interface	Modules		en	edit delete
Built-in interface	Menu		en	edit delete
Built-in interface	Advanced settings		en	edit delete
Built-in interface	Performance		en	edit delete
Built-in interface	Display all menu items		en	edit delete

2/ From here, select the string you wish to translate and click edit, enter the text and click on submit. You will land on a page that lists all the strings already translated including your last string.

3/ If you wish to update the translated content, you can find your string in the list generated and click edit on any of them.





4/ You will be presented with a list of all your added languages and their translations if entered. You can now edit the text for your language and click save translations to save them.

2.5 Reprocessing the conformity

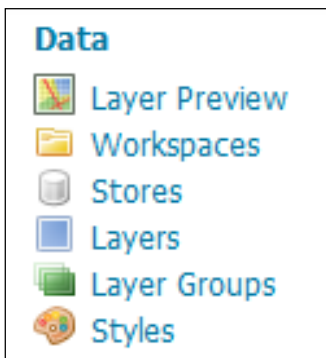
It is possible for your web portal to recalculate the conformity of your elements without having to go through all the steps for importing a data set.

To do this, navigate to [yourwebsite]/data, choose the year you want to recalculate and instead of importing more information just click on the link 'continue' until you reach the step concerning the conformity.

2.6 Setting up the webservice

The Geoserver interface offers 3 levels

- Workspaces
- Stores
- Layers



2.6.1 Creating a workspace : « UWWTD » :

The first step is to create a working space, which will hold the project services

In order to do so :

- Click on "Workspace" (on the left) and "add new workspace"





- Fill in the information as followed :
 - o The name of the workspace
 - o The URI (Uniform Resource Identifier) to access
 - o A contact name
 - o Tick the services : WMS, WFS





Tile Caching

- Tile Layers
- Caching Defaults
- Gridsets
- Disk Quota

Security

- Settings
- Authentication
- Passwords
- Users, Groups, Roles
- Data
- Services

Demos

Tools

Address Type

Work

Address

City

Limoges

State

ZIP code

Country

France

Telephone

Fax

Email

xxxxx.xxxxxx@xxxxx.com

Verbose Messages

Verbose Exception Reporting

Include Layer Prefix in Local Workspace Capabilities

Number of Decimals

8

Character Set

UTF-8

Proxy Base URL

http://www.uwwtd.oieau.fr/services/wfs

REST Disable Resource not found Logging

REST PathMapper Root directory path





2.6.2 Creating a " UWWTD_country" store:

(Examples : UWWTD_Slovenia, UWWTD_Cyprus, UWWTD_Lithuania)

The second step consist in creating 1 or several stores depending on the input data format which will contain the information layers.

For that:

- Click on « Add new store »

<input type="checkbox"/>	Data Type	Workspace	Store Name	Type	Enabled?
<input type="checkbox"/>		nurc	arcGridSample	ArcGrid	✓
<input type="checkbox"/>		nurc	img_sample2	WorldImage	⚠
<input type="checkbox"/>		nurc	mosaic	ImageMosaic	✓
<input type="checkbox"/>		nurc	worldImageSample	WorldImage	✓
<input type="checkbox"/>		sf	sfdem	GeoTIFF	✓
<input type="checkbox"/>		sandre	StationMesureEauxSurface	PostGIS	✓
<input type="checkbox"/>		sf	sf	Shapefile	✓
<input type="checkbox"/>		tiger	nyc	Shapefile	✓
<input type="checkbox"/>		topp	states_shapefile	Shapefile	✓
<input type="checkbox"/>		topp	taz_shapes	Shapefile	✓
<input type="checkbox"/>		UWWTD	UWWTD_prod	PostGIS	✓

- Select the source format : PostGIS in our project

Vector Data Sources

- Directory of spatial files (shapefiles) - Takes a directory of shapefiles and exposes it as a data store
- PostGIS - PostGIS Database
- PostGIS (JNDI) - PostGIS Database (JNDI)
- Properties - Allows access to Java Property files containing Feature information
- Shapefile - ESRI(tm) Shapefiles (*.shp)
- Web Feature Server (NG) - Provides access to the Features published a Web Feature Service, and the ability to perform transactions on the server (when supported / allowed).

Raster Data Sources

- ArcGrid - Arc Grid Coverage Format
- GeoTIFF - Tagged Image File Format with Geographic information
- Gtopo30 - Gtopo30 Coverage Format
- ImageMosaic - Image mosaicking plugin
- WorldImage - A raster file accompanied by a spatial data file

Other Data Sources

- WMS - Cascades a remote Web Map Service

- Fill in the form as followed





- About & Status
 - Server Status
 - GeoServer Logs
 - Contact Information
 - About GeoServer
- Data
 - Layer Preview
 - Workspaces
 - Stores
 - Layers
 - Layer Groups
 - Styles
- Services
 - WCS
 - WFS
 - WMS
- Settings
 - Global
 - JAI
 - Coverage Access
- Tile Caching
 - Tile Layers
 - Caching Defaults
 - Gridsets
 - Disk Quota
- Security
 - Settings
 - Authentication
 - Passwords
 - Users, Groups, Roles
 - Data
 - Services
- Demos
- Tools

New Vector Data Source

Add a new vector data source

PostGIS
PostGIS Database

Basic Store Info

Workspace *

UWWTD

Data Source Name *

UWWTD_Slovenia

Description

Enabled

Connection Parameters

host *

192.168.1.30

port *

5432

database

drupal_eru_si

schema

wfs

user *

postgres

passwd

Namespace *

http://www.uwwtd.oieau.fr/uwwtd/

Expose primary keys

max connections

10

min connections

1

fetch size

1000

Connection timeout

20

validate connections

Test while idle

Evictor run periodicity

300

Evictor tests per run

3

Primary key metadata table

Session startup SQL

Session close-up SQL

Loose bbox

Estimated extends

preparedStatements

Max open prepared statements

50

encode functions

Support on the fly geometry simplification

create database

create database params





- Select the workspace
- Enter the name of the store: UWWTD Slovenia, or UWWTD_Cyprus, or UWWTD_Lithuania
- Enter the name of the database and its access :
 - drupal_eru_si (Slovenia)
 - drupal_eru_cy (Cyprus)
 - drupal_eru_li (Lithuania)
- Enter the name of the schema containing the data

2.6.3 Create and publish layers:

The aim is to publish layers from the database tables, previously selected:

- UWWTD_Agglomeration
- UWWTD_DischargePoint
- UWWTD_ReceivingArea
- UWWTD_UrbanWasteWaterTreatmentPlant

New Layer

Add a new layer

You can create a new feature type by manually configuring the attribute names and types. [Create new feature type...](#)
On databases you can also create a new feature type by configuring a native SQL statement. [Configure new SQL view...](#)
Here is a list of resources contained in the store 'UWWTD_Slovenia'. Click on the layer you wish to configure

Published	Layer name	Action
	UWWTD_Agglomeration	Publish
	UWWTD_BigCity	Publish
	UWWTD_Compliance_Aggl	Publish
	UWWTD_Compliance_UWWTP	Publish
	UWWTD_DischargePoint	Publish
	UWWTD_ReceivingArea	Publish
	UWWTD_UWWTPs_Aggl	Publish
	UWWTD_UrbanWasteWaterTreatmentPlant	Publish

- Click on “Publish” for the 4 layers, one after the other.

The form displays with 4 sub-topic:

- The « data » sub-topic is used to precise the “name” to link to the data : « UWWTD_Slovenia_Agglomeration ». Check that « enable » and « advertised » are checked. *It may define the projection system (if it isn't completed; generally it is automatically completed) and the bounding boxes of the data; for this, click on « Compute from data » and « Compute from native bounds » in the paragraph « Bounding boxes ».*
- The “publishing” sub topic is used to define the style of the curve : point/polyline/polygon formats, pattern
- The content of the 2 other sub-topic forms could remain unchanged.





About & Status

- Server Status
- GeoServer Logs
- Contact Information
- About GeoServer

Data

- Layer Preview
- Workspaces
- Stores
- Layers
- Layer Groups
- Styles

Services

- WCS
- WFS
- WMS

Settings

- Authentication
- Passwords
- Users, Groups, Roles
- Data
- Services

Demos

Tools

Edit Layer

Edit layer data and publishing

UWWTD:UWWTD_Slovenia_Agglomeration

Configure the resource and publishing information for the current layer

- Data
- Publishing**
- Dimensions
- Tile Caching

Basic Resource Info

Name

UWWTD_Slovenia_Agglomeration

Enabled

Advertised

Title

UWWTD_Slovenia_Agglomeration

new keyword

Vocabulary

Metadata links

No metadata links so far

Note only FGDC and TC211 metadata links show up in WMS 1.1.1 capabilities

Coordinate Reference Systems

Native SRS

EPSG:4258 EPSG:ETRS89...

Declared SRS

EPSG:4258 EPSG:ETRS89...

SRS handling

Force declared

Bounding Boxes

Native Bounding Box

Min X	Min Y	Max X	Max Y
13.5508	45.491	16.4526	46.6786

[Compute from data](#)

Lat/Lon Bounding Box

Min X	Min Y	Max X	Max Y
13.5508	45.4909999990569	16.4526	46.6785999990584

[Compute from native bounds](#)

Curved geometries control

Linear geometries can contain circular arcs

Linearization tolerance (useful only if your data contains curved geometries)

Feature Type Details

Property	Type	Default	Required
siteId	String	false	1/1
aggCode	String	true	0/1
repCode	String	true	0/1
aggName	String	true	0/1
aggState	String	true	0/1
aggNUTS	String	true	0/1
aggGenerated	Integer	true	0/1
bigID	String	true	0/1
aggCalculation	String	true	0/1
aggChanges	String	true	0/1
aggChangesComment	String	true	0/1
aggPeriodOver	String	true	0/1
aggC1	BigDecimal	true	0/1
aggMethodC1	String	true	0/1
aggC2	BigDecimal	true	0/1
aggMethodC2	String	true	0/1
aggPercWithoutTreatment	BigDecimal	true	0/1





aggMethodWithoutTreatment	String	true	0/1
the_geom	Geometry	true	0/1
aggPercPrimTreatment	BigDecimal	true	0/1
aggPercSecTreatment	BigDecimal	true	0/1
aggPerStringentTreatment	BigDecimal	true	0/1
aggSewageNetwork	String	true	0/1
aggBestTechnicalKnowledge	String	true	0/1
aggSewerOverflows_m3	Integer	true	0/1
aggSewerOverflows_pe	Integer	true	0/1
aggRemarks	String	true	0/1
aggHaveRegistrationSystem	String	true	0/1
aggExistMaintenancePlan	String	true	0/1
aggExplanationOther	String	true	0/1
aggInhabitants	String	true	0/1
aggForecast	String	true	0/1
aggAccOverflowNumber	String	true	0/1
aggDilutionRates	String	true	0/1
aggAccOverflows	String	true	0/1
aggExplanationOther	String	true	0/1
aggInhabitants	String	true	0/1
aggForecast	String	true	0/1
aggAccOverflowNumber	String	true	0/1
aggDilutionRates	String	true	0/1
aggAccOverflows	String	true	0/1
aggOtherMeasures	Integer	true	0/1
aggPressureTest	Integer	true	0/1
aggVideoInspections	Integer	true	0/1
repReportedPeriod	String	true	0/1

Reload feature type ▲...

Save Cancel

Do the operation as many times as necessary

- Add a new resource

The screenshot shows the 'Layers' management page in GeoServer. On the left is a navigation sidebar with sections: 'About & Status' (Server Status, GeoServer Logs, Contact Information, About GeoServer), 'Data' (Layer Preview, Workspaces, Stores, Layers, Layer Groups, Styles), and 'Services' (WCS). The main content area is titled 'Layers' and contains the text 'Manage the layers being published by GeoServer'. Below this are two buttons: 'Add a new resource' (with a plus icon) and 'Remove selected resources' (with a minus icon). A search bar and pagination controls ('Results 1 to 25 (out of 25 items)') are also present. A table lists the following layers:

Type	Workspace	Store	Layer Name	Enabled?	Native SRS
<input type="checkbox"/>	UWWTD	UWWTD_prod	UWWTD_Agglomeration	✓	EPSG:4258
<input type="checkbox"/>	UWWTD	UWWTD_prod	UWWTD_DischargePoint	✓	EPSG:4258
<input type="checkbox"/>	UWWTD	UWWTD_prod	UWWTD_ReceivingArea	✓	EPSG:4258
<input type="checkbox"/>	UWWTD	UWWTD_prod	UWWTD_UrbanWasteWaterTreatmentPlant	✓	EPSG:4258
<input type="checkbox"/>	UWWTD	UWWTD_Slovenia	UWWTD_Slovenia_Agglomeration	✓	EPSG:4258

- Select the store in the list :

The screenshot shows the 'New Layer' dialog box in GeoServer. The title is 'New Layer' and the subtitle is 'Add a new layer'. There is a text input field labeled 'Add layer from' with a dropdown menu. The dropdown menu is open, showing a list of available stores. The first two items are 'Choose One'. The third item, 'UWWTD:UWWTD_Slovenia', is highlighted in blue. Other items in the list include 'UWWTD:UWWTD_prod', 'nurc:arcGridSample', 'nurc:img_sample2', 'nurc:mosaic', 'nurc:worldImageSample', 'sandre:StationMesureEauxSurface', 'sf:sf', 'sf:sfdem', 'tiger:nyc', 'topp:states_shapefile', and 'topp:taz_shapes'.

- And publish another layer:





New Layer

Add a new layer

Add layer from

You can create a new feature type by manually configuring the attribute names and types. [Create new feature type...](#)
 On databases you can also create a new feature type by configuring a native SQL statement. [Configure new SQL view...](#)
 Here is a list of resources contained in the store 'UWWTD_Slovenia'. Click on the layer you wish to configure

<< < | 1 | > >> Results 0 to 0 (out of 0 items)

Published	Layer name	Action
✓	UWWTD_Agglomeration	Publish again
	UWWTD_BigCity	Publish
	UWWTD_Compliance_Agglo	Publish
	UWWTD_Compliance_UWWTP	Publish
	UWWTD_DischargePoint	Publish
	UWWTD_ReceivingArea	Publish
	UWWTD_UWWTPs_Agglo	Publish
	UWWTD_UrbanWasteWaterTreatmentPlant	Publish

At the end, the 4 layers are published (green tick):

New Layer

Add a new layer

Add layer from

You can create a new feature type by manually configuring the attribute names and types. [Create new feature type...](#)
 On databases you can also create a new feature type by configuring a native SQL statement. [Configure new SQL view...](#)
 Here is a list of resources contained in the store 'UWWTD_Slovenia'. Click on the layer you wish to configure

<< < | 1 | 2 | > >> Results 0 to 0 (out of 0 items)

Published	Layer name	Action
✓	UWWTD_Agglomeration	Publish again
✓	UWWTD_DischargePoint	Publish again
✓	UWWTD_ReceivingArea	Publish again
✓	UWWTD_UrbanWasteWaterTreatmentPlant	Publish again
	UWWTD_BigCity	Publish
	UWWTD_Compliance_Agglo	Publish
	UWWTD_Compliance_UWWTP	Publish
	UWWTD_UWWTPs_Agglo	Publish

Layers

Manage the layers being published by GeoServer

Add a new resource
 Remove selected resources

<< < | 1 | 2 | > >> Results 1 to 25 (out of 28 items)

	Type	Workspace	Store	Layer Name	Enabled?	Native SRS
<input type="checkbox"/>		sandre	StationMesureEauxSurface	StationMesureEauxSurface	✓	EPSG:4326
<input type="checkbox"/>	UWWTD	UWWTD_Slovenia	UWWTD_Slovenia	UWWTD_Slovenia_Agglomeration	✓	EPSG:4258
<input type="checkbox"/>	UWWTD	UWWTD_Slovenia	UWWTD_Slovenia	UWWTD_Slovenia_DischargePoint	✓	EPSG:4258
<input type="checkbox"/>	UWWTD	UWWTD_Slovenia	UWWTD_Slovenia	UWWTD_Slovenia_ReceivingArea	✓	EPSG:4258
<input type="checkbox"/>	UWWTD	UWWTD_Slovenia	UWWTD_Slovenia	UWWTD_Slovenia_UrbanWasteWaterTreatmentPlant	✓	EPSG:4258

The topic "Layer preview » allow the visualisation of the layer in several formats (kml, gml, ...) :





Type	Name	Title	Common Formats	All Formats
<input type="checkbox"/>	UWWTD:UWWTD_Agglomeration	UWWTD_Agglomeration	OpenLayers KML GML	Select one
<input type="checkbox"/>	UWWTD:UWWTD_DischargePoint	UWWTD_DischargePoint	OpenLayers KML GML	Select one
<input type="checkbox"/>	UWWTD:UWWTD_ReceivingArea	UWWTD_ReceivingArea	OpenLayers KML GML	Select one
<input type="checkbox"/>	UWWTD:UWWTD_Slovenia_Agglomeration	UWWTD_Slovenia_Agglomeration	OpenLayers KML GML	Select one
<input type="checkbox"/>	UWWTD:UWWTD_Slovenia_DischargePoint	UWWTD_Slovenia_DischargePoint	OpenLayers KML GML	Select one
<input type="checkbox"/>	UWWTD:UWWTD_Slovenia_ReceivingArea	UWWTD_Slovenia_ReceivingArea	OpenLayers KML GML	Select one
<input type="checkbox"/>	UWWTD:UWWTD_Slovenia_UrbanWasteWaterTreatmentPlant	UWWTD_Slovenia_UrbanWasteWaterTreatmentPlant	OpenLayers KML GML	Select one
<input type="checkbox"/>	UWWTD:UWWTD_UrbanWasteWaterTreatmentPlant	UWWTD_UrbanWasteWaterTreatmentPlant	OpenLayers KML GML	Select one

2.6.4 Access to the services

The services can be accessed via the download/invoke section of the platform. It can be queried to know what is possible using the `getcapabilities` usual function as follows:

GetCapabilities (Description of the service available functions or possibilities : Layer name, available requests, map projections...)

<http://www.uwwtd.oieau.fr/services/wfs/?service=WFS&version=1.1.0&request=GetCapabilities>

The information layers to be used are of the form `UWWTD_[country name]_object` :

Example with Cyprus:

- UWWTD_Cyprus_Agglomeration
- UWWTD_Cyprus_DischargePoint
- UWWTD_Cyprus_ReceivingArea
- UWWTD_Cyprus_UrbanWasteWaterTreatmentPlant

The services section comprises for each object the two following:

- DescribeFeatureType (description of the information layers: name and format of the fields) :
- GetFeature (Access to the data content in GML format) :

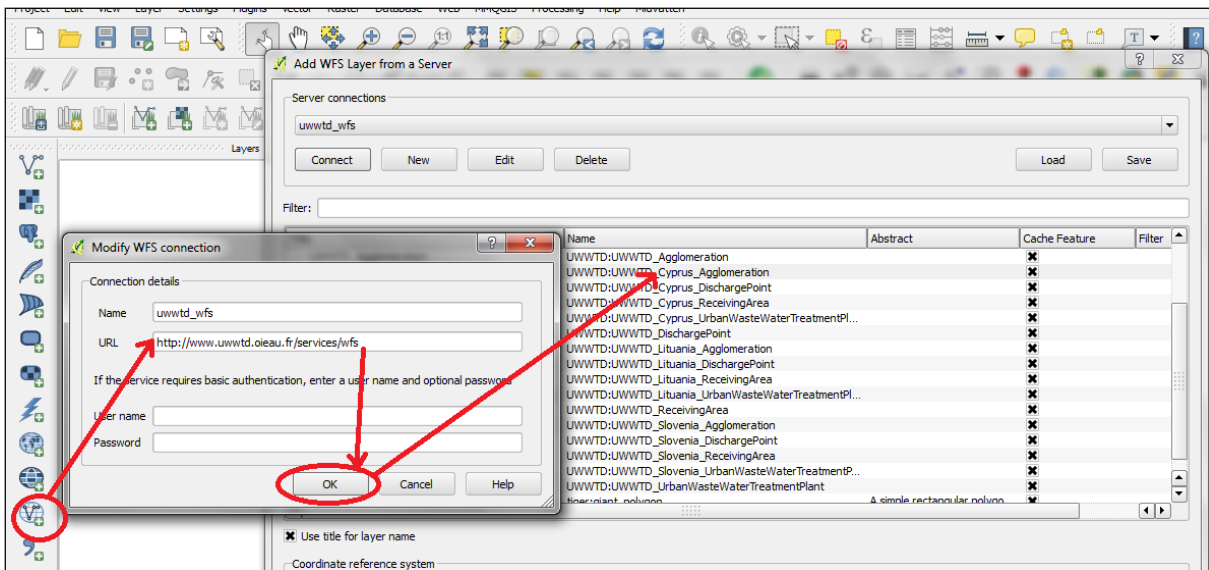
2.6.5 Access from a GIS software, like QGIS:

Access through WFS : <http://www.uwwtd.oieau.fr/services/wfs>

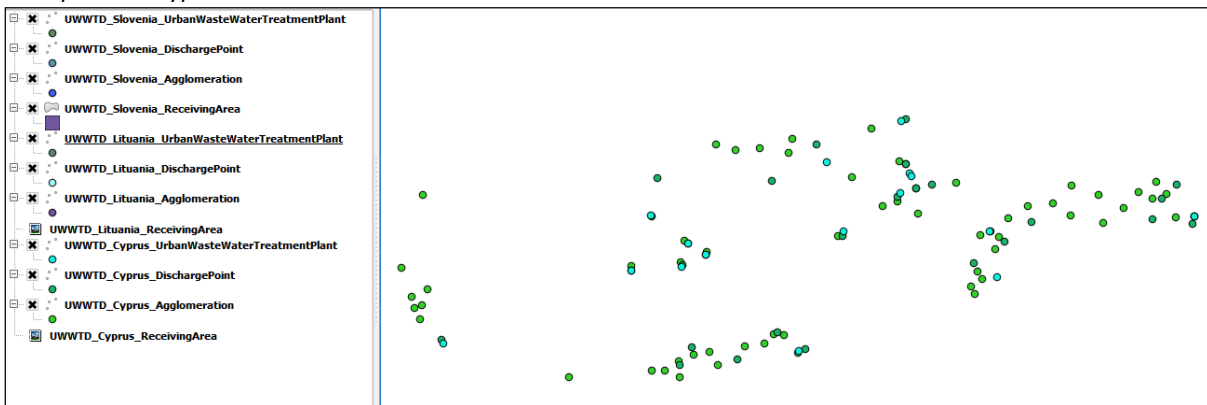




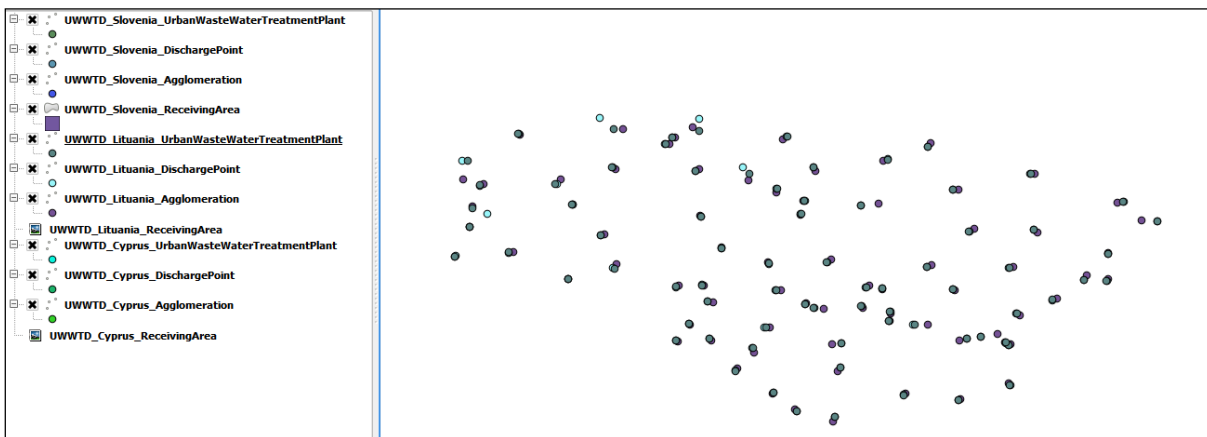
UWWT-D-SIIF platform: Administration guide



Example with Cyprus :

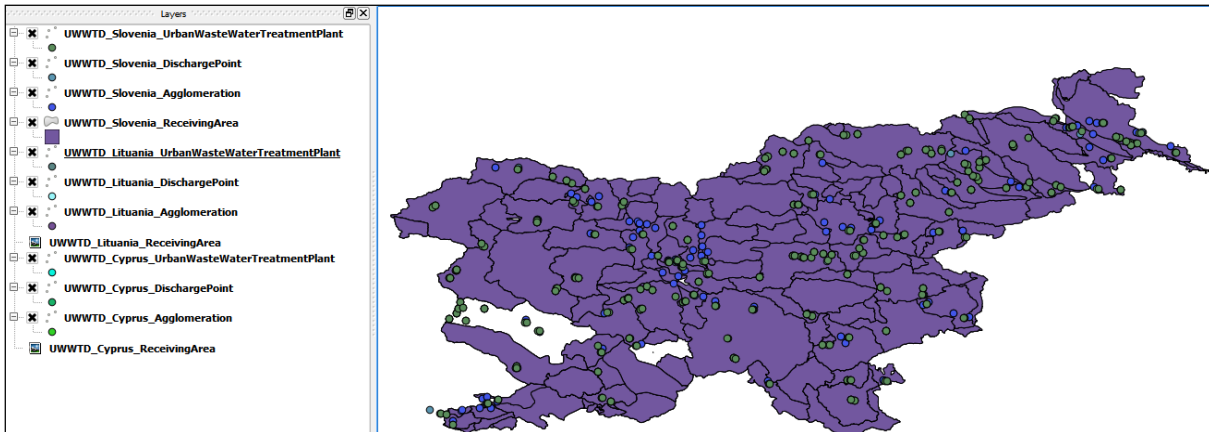


Lithuania :



Slovenia :

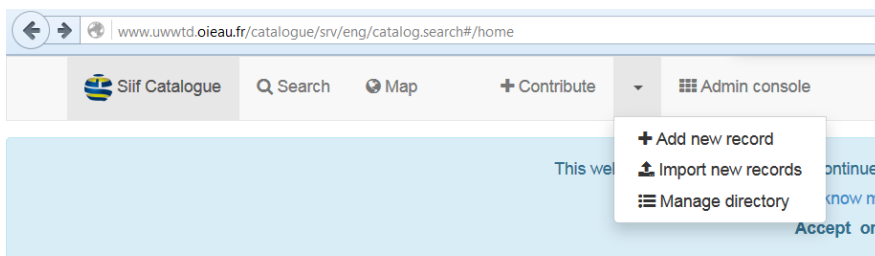




2.7 Create webservice metadata

2.7.1 Create metadata on geonetwork catalogue

If you have a metadata catalog like geonetwork or geosource and for implement the INSPIRE directive, you can fill a metadata sheet for each data layer. You also set a harvesting system if your layers are distribute by a webservice. For create a new record on a Geonetwork catalogue for describe a geographical layer, log on geonetwork with an admin account, and go to the “contribute” menu and click on “Add new record” like bellow and select “Geographic information – Metadata 19139).



Get started

Search over 54 data sets, services and maps, ...

Figure 1 : Add new record in Geonetwork

In order to create a harvester, go to “Admin console” menu and click on “Harvesting” like on bellow screenshot.

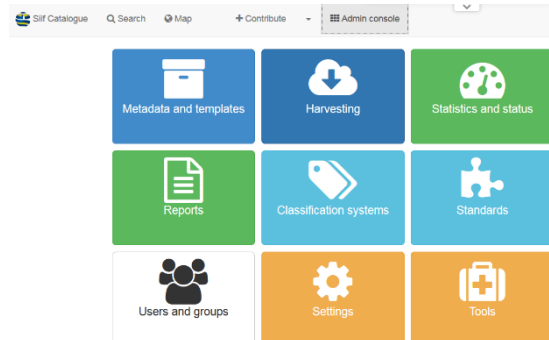


Figure 2 : Geonetwork admin console





For easing, your work, geonetwork provide various type of harvesting. Currently, you have to set OGC WFS web-services, by clicking on “+ Harvest from” in the bottom of “harvester” block on the left of screen.

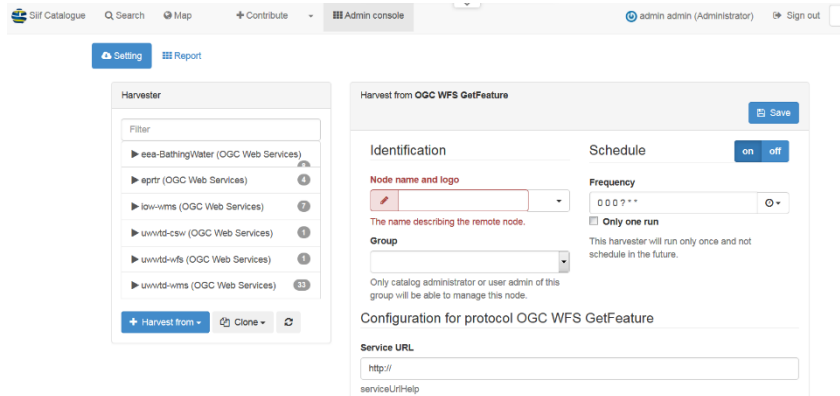


Figure 3 : Geonetwork : harvest from OGC WFS

Then fill all mandatory fields and save your harvester and finally, select your harvester and click on “Harvest” (blue button on the right of screen).

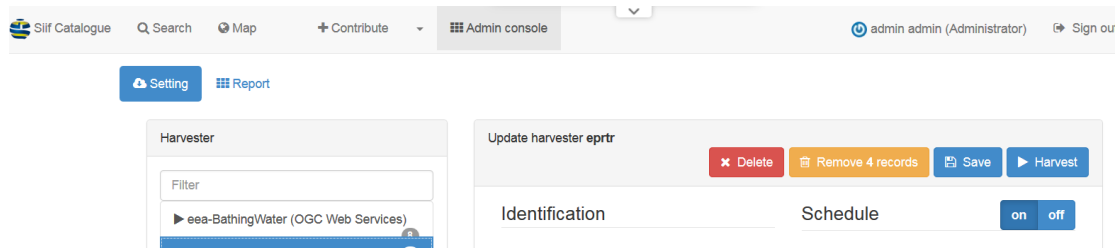


Figure 4 : Geonetwork, start harvesting service

After the end of the harvest process, you will find your new metadata in the front page of the catalog in “latest news” tabs on page bottom. You can view your new metadata with a click on the title (see the example below).

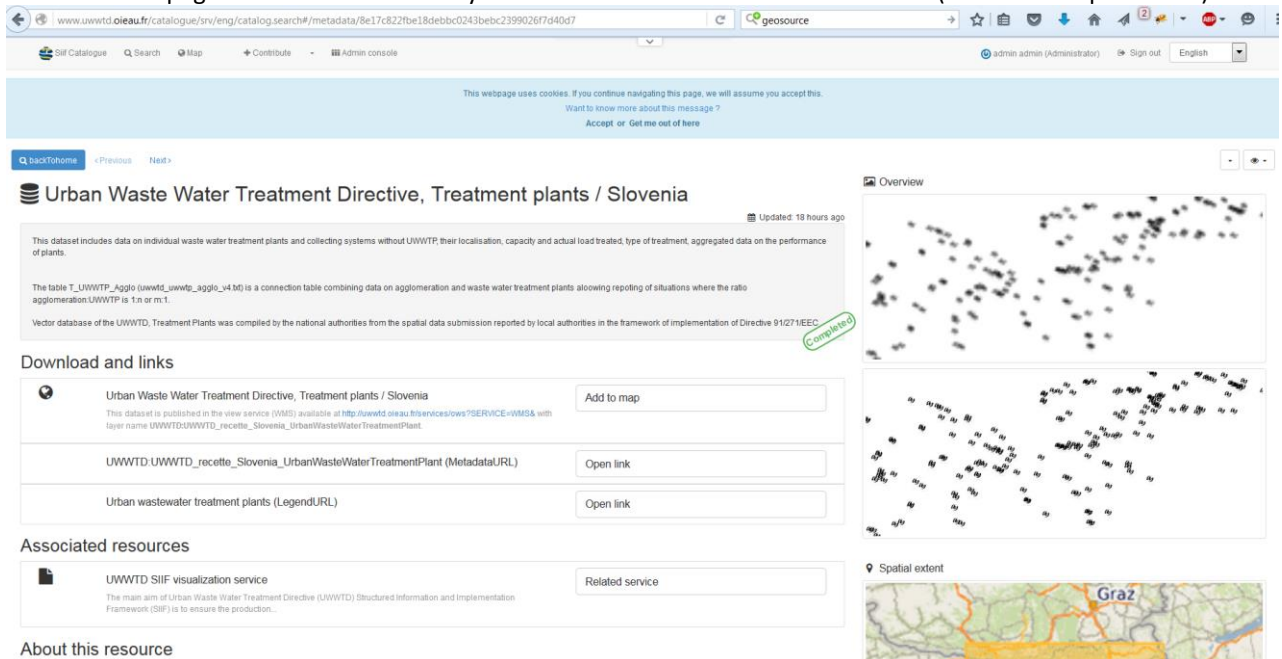


Figure 5 : Geonetwork : harvested metadata page





In your browser address bar, you can see a strange long string of random characters after the metadata argument :
Eg: : <http://www.uwwtd.oieau.fr/catalogue/srv/eng/catalog.search#/metadata/8e17c822fbe18debbc0243bebc2399026f7d40d7>.

This string is the Universal Unique Identifier – UUID – string and it identify your metadata page.

2.7.2 Declare metadata on UWWTD SIIF platform

In first requisite you need to have your information in a metadata catalogue like geonetwork (see 2.7.1) and note all UUID of metadata page. Then, go to your UWWTD SIIF platform administration menu in “Home » Administration » Configuration » uwwtd configuration » Metadata links” (in this url : [http://\[my server address\]/admin/config/uwwtd/download](http://[my server address]/admin/config/uwwtd/download)). Then fill fields with URL of your catalogue and give UUID of each layer like the screenshot below :

The screenshot shows the administration interface for UWWTD SIIF. The breadcrumb trail is: Home » Administration » Configuration » uwwtd configuration. The page title is 'Configuration'. There are three tabs: 'General settings', 'Metadata links' (selected), and 'Set external links'. The form contains three sections:

- Link catalog metadata Agglomerations**
Input field: <http://www.uwwtd.oieau.fr/catalogue/srv>
Text below: <http://www.uwwtd.oieau.fr/catalogue/srv>
- Uid metadata Agglomerations**
Input field: 8bbb2d949392820fdc973afe131eebd7e29d0bb5
Text below: uuid=8bbb2d949392820fdc973afe131eebd7e29d0bb5
- Link catalog metadata Urban Waste Water Treatment plants**
Input field: <http://www.uwwtd.oieau.fr/catalogue/srv>
Text below: <http://www.uwwtd.oieau.fr/catalogue/srv>

Figure 6 : UWWTD SIIF, set metadata form

Finally click on “Save configuration” at the bottom of the form and go to “Download/Invoke” page (public area) of your website (see the following screenshot)





UWWTD SIIF Slovenia National Node

Home View/Discover Download/Invoke Statistics Regulations Resources Contact

Editorial menu

- Add / manage a data report
- Add Article 17 information
- Bulk data deletion
- Register
- Translate interface
- List Error

Download

Data

In this section you can access to the data used on the platform and download them.

Select the year

2012 Apply Reset

Title	Coverage	Files available
Full UWWTD reported data	Country	xml
Agglomerations	Country	xml, csv, shp, kml
Urban Waste Water Treatment plants	Country	xml, csv, shp, kml
Discharge points	Country	xml, csv, shp, kml
Sensitive areas	Country	xml, csv, shp, kml

Metadata

In this section you can access the metadata fiches for each of the four geographical layers covered by UWWTD (91/271/EEC).

Title	Coverage	Download	View
Agglomerations	Country	xml, pdf	html, xml, pdf
Urban Waste Water Treatment plants	Country	xml, pdf	html, xml, pdf

Figure 7 : Download/invoke page

2.8 Managing maps on the UWWTD SIIF platform

2.8.1 Manage map settings

Each map on UWWTD SIIF platform can be edited with the administration interface of Drupal. In order to access to the “edit map” functionality, you must be connected with the admin account and then go on a page witch containing a map. On the top right corner of each map, on the “hover” map event a small grey gear appear. On click, a tooltip appear and you can click on “Edit” (see the red box on the screen below).

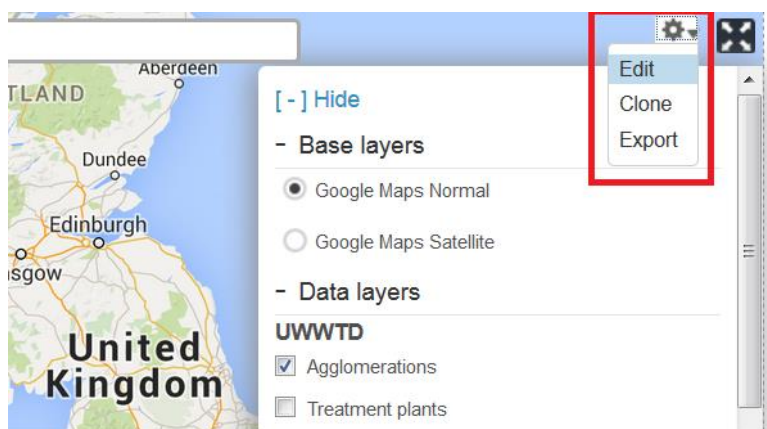


Figure 8 : Edit a map on Drupal





The “edit” link open a form page with all settings of the current map. Fields are sorted in sub-section : Infos, Center & Bounds, Layers and Styles, Behaviors and Display.

The screenshot shows the Drupal administration interface for editing a map. The breadcrumb trail is: Home > Administration > Structure > OpenLayers > Maps. The page title is 'Edit map waste_water_treatment_network_map'. A note says 'Turn map previews on by default on the Settings page.' The form is divided into several sections:

- Infos**: A sidebar menu with options: Center & Bounds, Layers & Styles, Behaviors, and Displays.
- Map Title**: A text field containing 'Waste water treatment network map'. Below it, a machine name 'waste_water_treatment_network_map' and a description: 'This is the descriptive title of the map and will show up most often in the interface.'
- Administrative description**: A text area containing a list of dates: '2016/02/12 14:09:24', '2016/02/08 16:53:25', and '2016/02/08 15:13:17'.
- Width**: A text field containing 'auto'. Below it, a note: 'The map's width. "auto" will make the map fill the space it is given; otherwise, enter a value in pixels, like 400px.'

Figure 9 : Map edit form in Drupal

You can also access to all maps settings on this URL : [http://\[my web site adresse\]/admin/structure/openlayers/maps](http://[my web site adresse]/admin/structure/openlayers/maps) available in “Administration > Structure> Openlayers > Maps” menu

For more information on map with drupal, you can visit the official documentation of “Openlayers” module for Drupal available here: <https://www.drupal.org/node/1636666>

2.8.2 Add new layers

At first, you must be connected with the “admin” account and you need to have strong knowledge in webmapping technology. If not, we recommend to post a new ticket on the Github space available here : <https://github.com/OIEau/uwwtd/issues>

With the Drupal Administration interface, you can add new geographical layers base on internal/external data. For internal data (for Drupal one), the best way is to use the “Views” module all documentation can be consulted on this URL : <https://www.drupal.org/node/1481374> . For external data, you can use followings formats/standards: Bing, CloudMade, GeoJSON, Google, GPX, Image, KML, MapTiler, OSM, PointGrid Layer, TMS, WMS, WMTS, XYZ. If you want to set a queryable layer, you only can use the WMS standard in overlay mod with the “getfeatureinfo” capacity in the geojson format (available for e.g. with map server 7, Geoserver 2.8 and ArcGIS online)

The layer management interface of Drupal is located in “Administration > Structure> Openlayers > Layers” on this URL: [http://\[my web site adresse\]/admin/structure/openlayers/layers](http://[my web site adresse]/admin/structure/openlayers/layers). For declare a new layer click on “Add layer” link and then fill layer descriptions fields on the proposed form. For external data the main format is the “WMS” (in layer type format field)





Dashboard Content Structure Appearance People Modules Configuration Reports Help

Home » Administration » Structure » OpenLayers » Layers

Add a new layer

Layer Title
 Machine name: my_new_layer [Edit]
 The friendly name of your layer, which will appear in the administration interface as well on the m

Administrative description

Layer Type

Select the type of layer.

LAYER SPECIFIC OPTIONS FOR WMS

Base URL

Figure 10 : Add new layer

In this form we have to pay attention to the “base layer” field. If you check this field, your layer will be a base layer like the google map or open street map layer. You can only use base layer as background layer. If you want to stack layer with other layers and use it like an “overlay” layer uncheck this field. (You can take example on the “Bathing water” layer)

After you have set your parameters click on “save” button. Now your layer can be used in Drupal maps. So if you want to display your layer on a map, you have to edit the map settings (see 2.9.1), and in “Layers and styles” section check your layer and save the current map.

MapBox World Dark <small>MapBox World Dark</small>	<input type="checkbox"/>	<input type="radio"/>
MapBox World Light <small>MapBox World Light</small>	<input type="checkbox"/>	<input type="radio"/>
MapBox World Print <small>MapBox World Print</small>	<input type="checkbox"/>	<input type="radio"/>
MapBox World Black <small>MapBox World Black</small>	<input type="checkbox"/>	<input type="radio"/>

OVERLAY LAYERS	WEIGHT	ENABLED	ACTIVATED	IN SWITCHER	STYLE	SELECT STYLE	TEMPORARY STYLE
Agglomerations	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<use default style>	<use default style>	<use default style>
UWWTPS	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<use default style>	<use default style>	<use default style>
Discharge points	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<use default style>	<use default style>	<use default style>

Figure 11 : Extract of Layers and styles in map edit form

If you want to display your layer in the layers switcher behaviour, you have to reopen the edit map form, and go to behaviour section. In this section go to “OL+ : Blockswitcher plus” area check your layer, and give the “group name” and save the map.





▼ **OL+: BLOCKSWITCHER PLUS**

OL+: Blockswitcher Plus

A clone of BlockSwitcher, with ability to sort layers by group.

▼ **OPTIONS**

Show blockswitcher in maps

Show blockswitcher open when the map loads

Show overlay layers as checkboxes or radio buttons

Checkboxes ▼

Sort layers by groups

agglomeration_treatment

Group name for : agglomeration_treatment

UWWTD

oieau_rbd

Group name for : oieau_rbd

Basins

Figure 12 : OL+ : Blockswitcher plus

Your layer can be queryable if you use a WMS layer or an Openlayers Views layer (see the screen below).

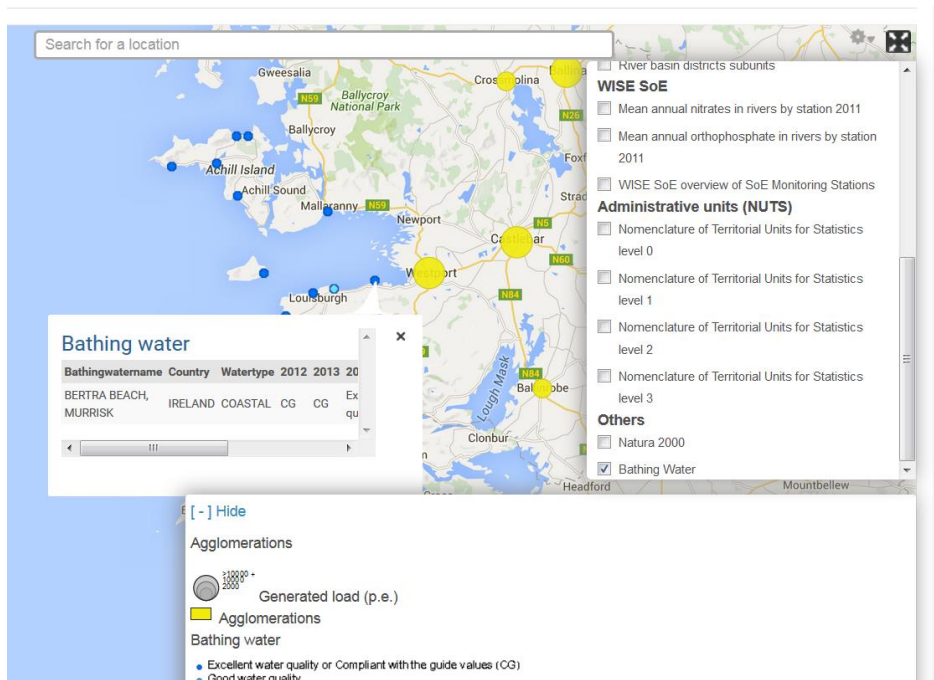


Figure 13 : Example of queryable WMS layer : Bathing Water

For Openlayers Views layers you have to read the official documentation of Openlayers Views module.





For WMS layers, you need to use a map server with the the “getfeatureinfo” capacity in the geojson format (available for eg with mapserver 7, geoserver 2.8 and arcgis online). You also need to declare the domain of your server map server in the proxy “white list” settings in the following menu “Administration » Configuration » System » Proxy”

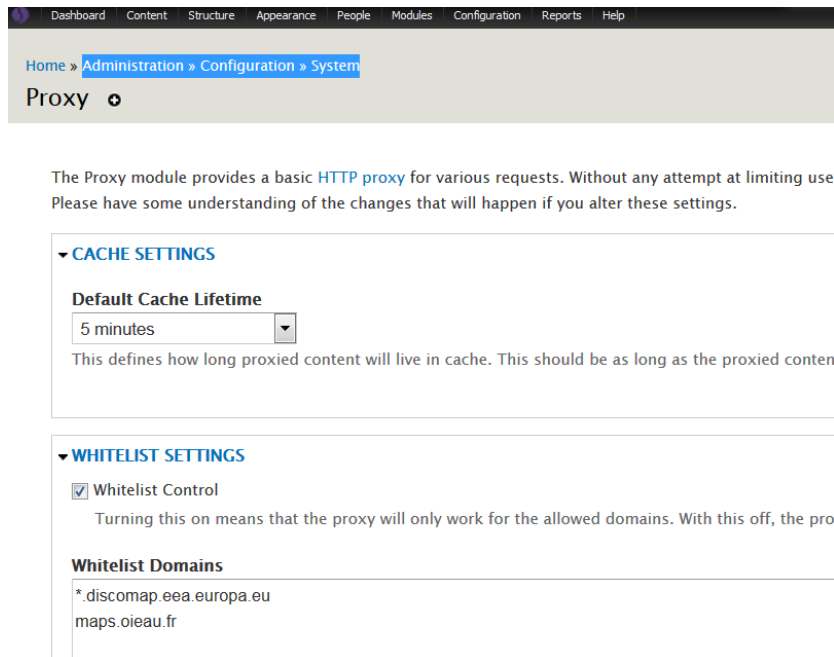


Figure 14 : Proxy settings

For developers only, you can change the content rendering of the result popup on the layer with a specific Drupal hook : `hook_wms_getfeatureinfo_alter(&$result, &$url)`. We recommend to create your own Drupal module in order to do it. You can find examples at the end of the `uwwttd.module` file (search function `uwwttd_wms_getfeatureinfo_alter(&$result, &$url)`)

2.9 To go further

The web portal has been designed using the CMS Drupal. All the relevant information can be found here: <https://www.drupal.org/>

