

# WFD2016 workshop

## Exercise 1: Reporting on national spatial data

### Exercise summary

The exercise will focus on River Basin Districts

- I. Shape files data generation.
- II. Use of the conversion tool Shape to GML.
- III. Create metadata files
- IV. CDR workflow exercise:
  - a. Create and envelope
  - b. Add files
  - c. Quality Assurance (QA) checks
  - d. Release data



From spatial data  
to Reportnet



**EIONET**  
Central Data Repository

Overview Task list Edit properties

**Water Framework Directive: River Basin Management Plans - 2016 Reporting**

Obligation(s) [Water Framework Directive - River Basin Management Plans - 2016 Reporting](#)

New referral  
New collection

**Envelopes and subcollections**

<input type="checkbox"/>	<a href="#">National RBDSUCA</a>	09 Nov 2015
<input type="checkbox"/>	<a href="#">National spatial data</a>	10 Nov 2015
<input type="checkbox"/>	<a href="#">RBMP and PoM background documents</a>	09 Nov 2015
<input type="checkbox"/>	<a href="#">River Basin Districts</a>	09 Nov 2015

Cut Copy Delete

# I. Shape files data generation

1. Download the templates from CDR reporting page ([http://cdr.eionet.europa.eu/help/WFD/WFD\\_521\\_2016/](http://cdr.eionet.europa.eu/help/WFD/WFD_521_2016/))
2. Using a GIS software tool (e.g. ArcGIS, QGIS, FME), open the shape file.
3. Edit the file and enter the spatial data (geometries and tabular)
4. Save the shape file
5. Make a Zip file with the .dbf, .prj, .sbn, .sbx, .shp, .shx files that build the Shape file

## Shapefiles to report spatial data

You can also use Shapefiles to produce the spatial data. An online tool is provided to allow the transformation of each Shapefiles to GML. GML is the online format to be used in the reporting of the spatial data. These are the Shapefiles templates version 6.0.2:









[RiverBasinDistrict.zip](#)


1

namespace	desigBegin	desigEnd	link	beginLife	themaIdSch	zoneType	versionId	predecessorId	wEvolution	nameTextInt	endLife	nameText
'NotApplicable'	20160101	99991231	'NotApplicable'	20160101	euRBDCode	riverBasinDistrict	'NotApplicable'	'NotApplicable'	noChange	Danube	99991231	Danube
'NotApplicable'	20160101	99991231	'NotApplicable'	20160101	euRBDCode	riverBasinDistrict	'NotApplicable'	'NotApplicable'	noChange	Rhine	99991231	Rhine
'NotApplicable'	20160101	99991231	'NotApplicable'	20160101	euRBDCode	riverBasinDistrict	'NotApplicable'	'NotApplicable'	noChange	Elbe	99991231	Elbe

2-4



-  RiverBasinDistrict\_AT\_2016-01-01.dbf
-  RiverBasinDistrict\_AT\_2016-01-01.prj
-  RiverBasinDistrict\_AT\_2016-01-01.sbn
-  RiverBasinDistrict\_AT\_2016-01-01.sbx
-  RiverBasinDistrict\_AT\_2016-01-01.shp
-  RiverBasinDistrict\_AT\_2016-01-01.shx
-  **RiverBasinDistrict\_AT.zip**

5

## II. Use the conversion tool Shape to GML

1. Go to the conversion tool from Shape to GML at CDR reporting page (e.g. Conversion tool from RiverBasinDistrict Shape to GML v.6.0.2)
2. Upload the Zip file previously generated
3. Provide an e-mail account where you the GML will be sent
4. Open the e-mail received and click on the link provided for downloading the GML at your computer
5. Rename your GML as “RiverBasinDistrict\_your country code\_YYYYMMDD.gml”

### Shapefiles to report spatial data

You can also use Shapefiles to produce the spatial data. An online tool is provided to allow the transformation of each Shapefiles to GML. GML is the only format to be used in the reporting of the spatial data. These are the Shapefiles templates version 6.0.2:

- [RiverBasinDistrict.zip](#)
- [Conversion tool from RiverBasinDistrict Shape to GML v.6.0.2](#)

1

### Water Framework Directive reporting resources



#### Conversion from RiverBasinDistrict Shapefile WFD 2016 to GML WFD 2016 for reporting in Reportnet

1st Select the zip file with the .dbf, .prj, .sbn, .sbx, .shp, .shx files that build the Shapefile

2nd Click the "Upload File" button

File List (Be patient, some files may take a while to upload) : [Refresh File List](#)

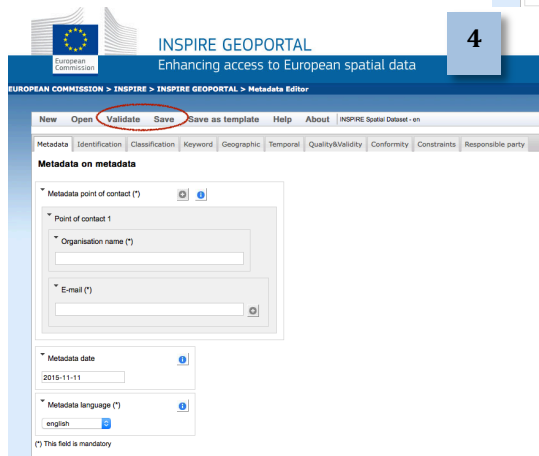
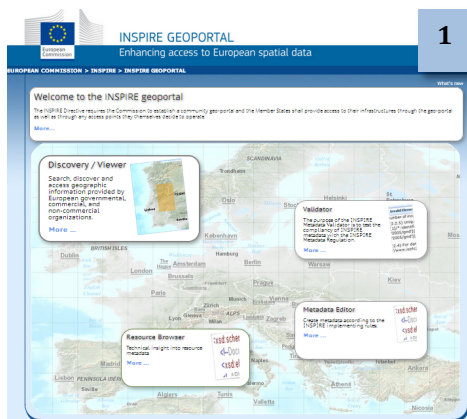
In addition, please provide us a valid e-mail address. The system will deliver in your mailbox a link to the generated GML (zipped):

2-4

### III. INSPIRE metadata generation

It is required to upload a INSPIRE metadata XML file for each GML schema

1. Go to INSPIRE metadata editor: <http://inspire-geoportal.ec.europa.eu/>
2. Fill all of the mandatory fields in the web form (marked as \*)
3. Check the GIS Guidance to fulfil the metadata requirements for the specific themes
4. When finished validate and save the file (XML) in your computer and rename as the corresponding GML name



## IV.a. Report your data at CDR Reportnet: Create an envelope

1. Go to CDR Reportnet under your country
2. Click on European Union (EU), obligations
3. Click the obligation from the page “Water Framework Directive: River Basin Management Plans - 2016 Reporting”
4. Click on National Spatial Data
5. Log in with your EIONET credentials
6. Click on “New Envelope”
7. In the Add Envelope page provide:
  - a. Title: YYYYMMDD
  - b. Description: A text describing it
  - c. Click in Add button

1

Global works  
Search by ob  
Search XML files  
Recent uploads

The Central Data Repository is part of the ReportNet architecture. The Central Data Repository is like a bookshelf, with data reports on the environment as submitted to international clients.

Each country either has a folder (📁) for its deliveries or a referral (🔗) to a different preferred repository. The data reports within each country folder are arranged under the relevant reporting obligations or agreements.

Albania, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, European Red List of birds, Finland, France, Georgia, Germany, Gibraltar, Greece, Hungary, Ireland, Italy, Kosovo (UNSCR 1244/99), Latvia, Liechtenstein, Luxembourg, Macedonia (FYR), Lithuania, Montenegro, Morocco, Moldova, Poland, Portugal, Romania, Slovakia, Slovenia, Serbia, Switzerland, Tajikistan, Spain, Sweden, Turkey, Ukraine, United Kingdom

Need help? First try the [On-line CDR help](#) then ask the Eionet helpdesk: [helpdesk@eionet.europa.eu](mailto:helpdesk@eionet.europa.eu).

Eionet helpdesk will provide assistance for: Upload access for new users, Password problem, Difficulties during upload procedure, Download problems

2

Overview Task list Edit properties

France

Envelopes and subcollections

- EEA\_requests
- European Union (EU), obligations
- Test LCP
- United Nations (UN)
- comif
- fysegfodsd
- test
- test envelope
- test envelope

14 Oct 2013  
09 Nov 2015  
19 Mar 2015  
16 Jan 2013  
01 Jul 2015  
19 Feb 2015  
04 Jul 2014  
02 Dec 2013  
02 Dec 2013

Cut Copy Delete

3

Overview Task list Edit properties

European Union (EU), obligations

Envelopes and subcollections

- Water Framework Directive: River Basin Management Plans - 2016 Reporting

09 Nov 2015

4

Overview Task list Edit properties

Water Framework Directive: River Basin Management Plans - 2016 Reporting

Obligation(s) [Water Framework Directive - River Basin Management Plans - 2016 Reporting](#)

Envelopes and subcollections

- National RBDSUCA
- National spatial data
- RBMP and PoM background documents
- River Basin Districts

6

Overview Task list Edit properties

National spatial data

Obligation(s) [Water Framework Directive - River Basin Management Plans - 2016 Spatial data](#)

Envelopes and subcollections

New referral  
New envelope

### Add Envelope

Fill out the fields in this report profile and click *Add*. This will create an *envelope* into which you must deliver.

7

Title

Description

Relating to which year 2015 Whole Year to

Coverage France

Coverage note

Add

## IV.b. Report your data at CDR Reportnet: Add the GML & Metadata files

1. Click on your generated envelope
2. Click on Activate Task (You have to activate this task first before you can upload your files)
3. Click on Add file
4. In the Add document window form provide:
  - a. Title: RiverBasinDistrict\_your country code\_YYYYMMDD.gml
  - b. Click on Choose the file and select the GML at your location
  - c. Finally, click on Add

**Envelopes and subcollections**

20151012 10 Nov 2015

**20151012** Zip Envelope

**Overview** | **Edit properties** | **History** **Activate task**

**Description** RBDSUCA test  
**Obligations** Water Framework Directive - River Basin Management Plans - 2016 RBDSUCA XML data  
**Period** 2015 - Whole Year  
**Coverage** France  
Task(s) waiting to be assigned: **Activate task: Draft** (You have to activate this task first before you can

**Overview** | **Draft delivery** | **Edit properties** | **History** **Add file**

**Draft** Upload multiple files packed into a zip archive.  
The zip cannot contain a folder structure.

1) Your first step is to **upload** one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you can **run the automatic quality assessment on the data** - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Once you are satisfied with the contribution, you choose **Release envelope** and your delivery will be released to the public. The automatic quality assessment will be run on the data, after which the EEA and ETC will perform a final review and post feedback on this delivery.

Files in this envelope  
 No files uploaded

Feedback for this envelope  
 No feedback posted in this envelope

**Upload zipfile** **Run automatic QA** **Release the envelope** **Deactivate task**

**4**

**Add file** **Upload zipfile**

**Add Document**

**Warning:**  
 If the filename already exists in the envelope, the existing file will be overwritten.

**Title**

**File**  no file selected

**Id**  (optional)

**Restricted from public view**

## IV.c. Report your data at CDR Reportnet: Quality assurance checks

You can check the GML uploaded for:

- d. The schema itself
  - e. Within schema data
  - f. Cross schema among the other files of the envelope
  - g. Statistics for the files uploaded in the envelope
1. Check the RBD GML schema, click on the GML Run QA#1, you will obtain the QA result
  2. Check the RBD GML within schema, click on the GML Run QA#2, you will obtain the QA result
  3. Click on the button Run automatic QA to run the rest of the validations at envelope level (cross schema and statistics).
  4. See the errors obtained at the Data Quality tab

### Draft delivery

1-2

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you can [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Once you are satisfied with the contribution, you choose [Release envelope](#) and your delivery will be released to the public. The automatic quality assessment will be run on the data, after which the EEA and ETC will perform a final review and post feedback on this delivery.

Files in this envelope

<input type="checkbox"/>	GML_RiverBasinDistrict_2016_your country_YYYYMMDD.gml	10 Nov 2015	26.7 KB	<input type="button" value="Run QA #1"/>	<input type="button" value="Run QA #2"/>
--------------------------	---	-------------	---------	--	--

### Run automatic QA

3

**Obligations** [Water Framework Directive - River Basin Management Plans - 2016 RBDSUCA XML data](#)

**Period** 2015 - Whole Year

**Coverage** France

**Status** Task(s) in progress: **Automatic quality assessment (Automatic quality assessment)**

#### XML Schema validation

**BLOCKER!** The file does not conform to the data model defined in the XML Schema and blocks your submission. The XML Schema data model specifies the element names, document structure and data types.

The file was validated against  
[http://dd.eionet.europa.eu/schemas/WFD2016/RBDSUCA\\_2016.xsd](http://dd.eionet.europa.eu/schemas/WFD2016/RBDSUCA_2016.xsd)

The following table lists the contradictions in document structure, elements using wrong data types or missing mandatory values.

Tip: This page is only temporary. The page URL address can not be used as a reference to the result.  
 Please use the "File >> Save As" option within your browser to save the validation results.

[Go back to envelope](#)

4

Type	Position	Error message
ERROR	Line: 321, Col: 41	cvc-enumeration-valid: Value 'Y' is not facet-valid with respect to enumeration '[Yes, No]'. It must be a value from the enumeration.
ERROR	Line: 321, Col: 41	cvc-type.3.1.3: The value 'Y' of element 'Intern
ERROR	Line: 323, Col: 20	cvc-complex-type.2.4.a: Invalid content was found starting with element 'subUnitsDefined'. One of '{http://dd.eionet.europa.eu/schemas/WFD2016:internationalRBDName, http://dd.eionet.europa.eu/schemas/WFD2016:primeCompetentAuthority}' is expected.
ERROR	Line: 336, Col: 41	cvc-enumeration-valid: Value 'N' is not facet-valid with respect to enumeration '[Yes, No]'. It must be a value from the enumeration.
ERROR	Line: 336, Col: 41	cvc-type.3.1.3: The value 'N' of element 'internationalRBD' is not valid.
ERROR	Line: 337, Col: 20	cvc-complex-type.2.4.a: Invalid content was found starting with element 'subUnitsDefined'. One of '{http://dd.eionet.europa.eu/schemas/WFD2016:internationalRBDName, http://dd.eionet.europa.eu/schemas/WFD2016:primeCompetentAuthority}' is expected.
ERROR	Line: 380, Col: 41	cvc-enumeration-valid: Value 'N' is not facet-valid with respect to enumeration '[Yes, No]'. It must be a value from the enumeration.

[Overview](#) [Draft delivery](#) [Edit properties](#) [History](#) [Data quality](#)

### Results of automatic data quality checks

This page displays summary information from all automatic data quality checks for this envelope. more detailed results, just follow the "Show more.." links to the individual feedback items.



## IV.d. Report your data at CDR Reportnet: Release data

Once you get no blocking errors you can proceed to release the envelope

1. Release the envelope
2. The automatic QA will run again
3. You will receive an automatic confirmation of receipt once the envelope is released.
4. To be notified by mail you need to be subscribed to CDR notifications

Overview
Draft delivery
Edit properties
History
Data quality

1-2

### Draft delivery

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you can [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Once you are satisfied with the contribution, you choose [Release envelope](#) and your delivery will be released to the public. The automatic quality assessment will be run on the data, after which the EEA and ETC will perform a final review and post feedback on this delivery.

### Feedback for this envelope

3

[Confirmation of receipt](#) (Posted automatically)

European Environment Agency  
Kongens Nytorv 6  
DK 1050 Copenhagen K

In support of WISE - The Water Information System For Europe

To Whom It May Concern

This confirmation letter shows the status of national data submissions to Reportnet based on the European Reporting Obligation

**Water Framework Directive - River Basin Management Plans - 2016 Reporting** (<http://rod.eionet.europa.eu/obligations/715>)

The letter is automatically generated when the authorised national data reporter has released the respective reporting information inside the Central Data Repository (CDR).

The following delivery has been submitted for [Member State] and was released on [date of release].

**Envelope:** [Name of the envelope]  
**Location:** [web link to envelope]

List of files:

1. [file name]
2. [file name]
3. [file name]
4. ...

The above-mentioned files were submitted by: [name of data reporter] (user name: [user name of data reporter])

**Note**

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

### Subscribe to notifications

This page allows you to make email subscriptions to the *Unified Notification Service*. Select the cases when you want to receive notifications from the form below. This subscription will be appended to any previous ones you might have made in the past.

Obligation is	<div style="font-size: 8px; margin-bottom: 5px;">Any obligation</div> <div style="font-size: 8px; margin-bottom: 5px;">1st daughter directive relating to limit values for NOx, ...</div> <div style="font-size: 8px; margin-bottom: 5px;">Air quality assessment annual reporting for 1st daughter directive</div> <div style="font-size: 8px; margin-bottom: 5px;">2006/11/EC Dangerous Substances Directive (codified version)</div> <div style="font-size: 8px; margin-bottom: 5px;">Implementation Report Dangerous substances</div> <div style="font-size: 8px; margin-bottom: 5px;">2006/113/EC Shellfish Directive (codified version)</div> <div style="font-size: 8px; margin-bottom: 5px;">Shellfish Directive report</div> <div style="font-size: 8px; margin-bottom: 5px;">2006/118/EC Groundwater Daughter Directive to WFD</div> <div style="font-size: 8px; margin-bottom: 5px;">Groundwater in WFD progress on implementation of programmes of measures</div> <div style="font-size: 8px; margin-bottom: 5px;">Groundwater in WFD River Basin Management Plan including programme of measures</div> <div style="font-size: 8px; margin-bottom: 5px;">2006/44/EC Fish Directive (codified version)</div> <div style="font-size: 8px; margin-bottom: 5px;">Fish Directive Report</div> <div style="font-size: 8px; margin-bottom: 5px;">2nd daughter directive relating to benzene and carbon mon ...</div> <div style="font-size: 8px; margin-bottom: 5px;">Air quality implementing national laws, regulations and administrative provis ...</div> <div style="font-size: 8px; margin-bottom: 5px;">Air quality assessment annual reporting for 2nd daughter directive (Art.3, 4, ...</div>
and country is	<input type="text" value="Austria"/>
and the operation is	<input checked="" type="checkbox"/> Envelope release <input checked="" type="checkbox"/> Envelope revoke <input checked="" type="checkbox"/> Feedback posted <input checked="" type="checkbox"/> Comment to feedback posted
<input type="button" value="Subscribe"/> <input type="button" value="Reset fields"/>	

For complete information about your subscriptions, visit [your preferences page at the Unified Notification Service](#)