



INSPIRE Geoportal – Update

JRC INSPIRE Team

67th MIG-T meeting – October 7th-8th, 2021

INSPIRE Geoportal

Objectives

Renew the INSPIRE Geoportal

- **Geoportal Backend: Ongoing**
 - Migration to a GeoNetwork-based architecture.
 - Functionality of the current Geoportal will be maintained.
 - Improved Harvesting processes and performance (use of micro-services).
 - Migration to a cloud environment: assure system availability / scalability.
- **Geoportal Frontend: Ready!**
 - New UI filtering INSPIRE datasets according to High-Value Datasets.
 - Launch waiting for the publication of the HVDs Implementing Act.

New Geoportal Backend

Status of the work

- Phase 1 - GeoNetwork Prototype: 2021

- First prototype just delivered by the contractor (GeoCat).
- Testing & refinement to be started:

The process will be based on comparison of indicator results between the new and the current Geoportal.

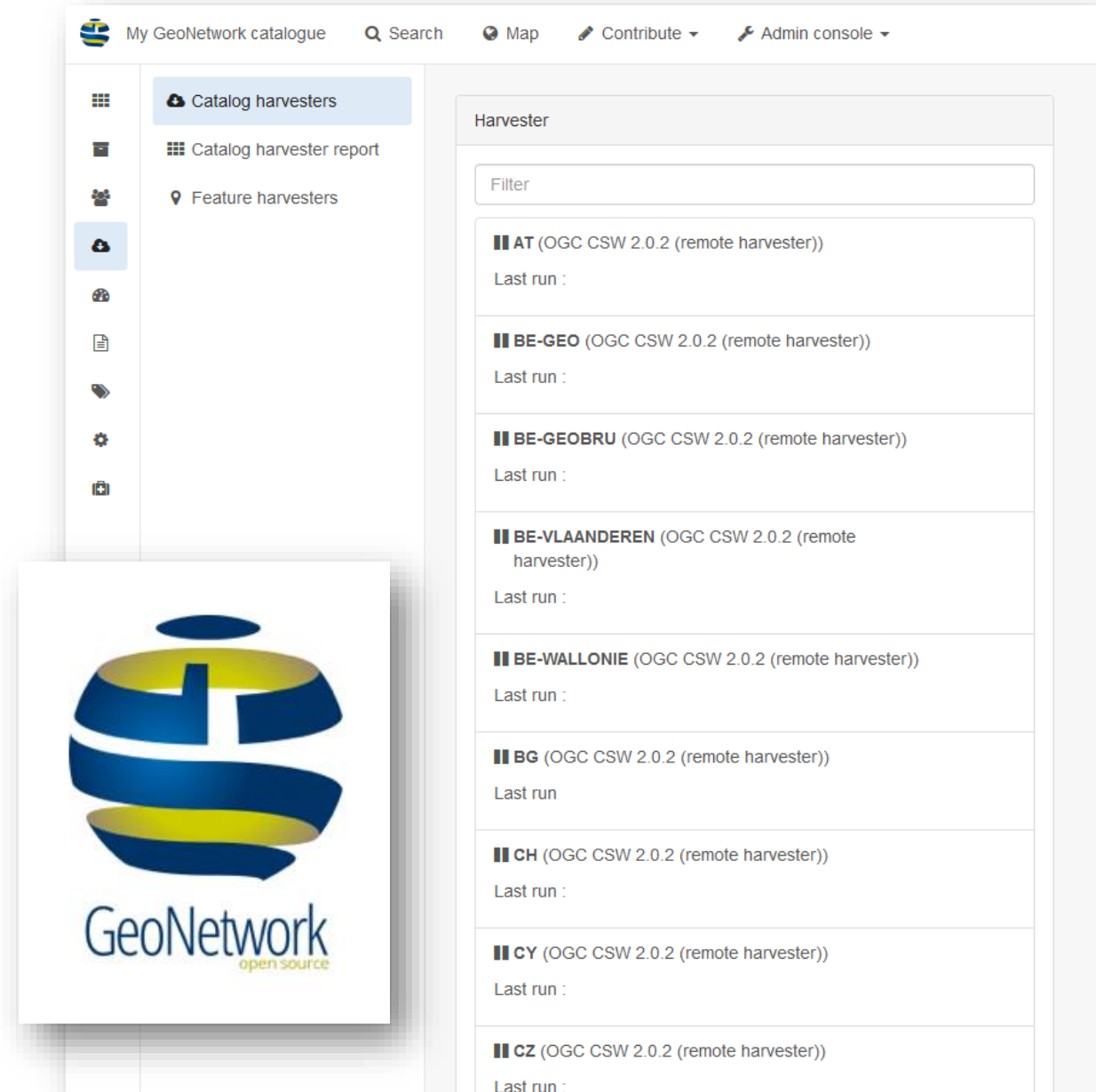
- Note: Checks to metadata will be more relaxed than in current Geoportal.

- Phase 2 – Rollout and operation of the system: Rest of 2021

New Geoportal Backend

Harvesters list

- Harvesters configuration.
- Specific parameters for each node reporting to the INSPIRE Geoportal.
- GeoNetwork groups accessing harvesters corresponding to nodes of each MS.
- Association of specific users to a MS group.



The screenshot displays the 'My GeoNetwork catalogue' interface. The left sidebar contains navigation options: 'Catalog harvesters' (selected), 'Catalog harvester report', and 'Feature harvesters'. The main content area is titled 'Harvester' and features a 'Filter' input field. Below the filter, a list of harvesters is shown, each with a status indicator (two vertical bars) and a label: 'AT (OGC CSW 2.0.2 (remote harvester))', 'BE-GEO (OGC CSW 2.0.2 (remote harvester))', 'BE-GEOBRU (OGC CSW 2.0.2 (remote harvester))', 'BE-VLAANDEREN (OGC CSW 2.0.2 (remote harvester))', 'BE-WALLONIE (OGC CSW 2.0.2 (remote harvester))', 'BG (OGC CSW 2.0.2 (remote harvester))', 'CH (OGC CSW 2.0.2 (remote harvester))', 'CY (OGC CSW 2.0.2 (remote harvester))', and 'CZ (OGC CSW 2.0.2 (remote harvester))'. Each entry includes a 'Last run :' label. The GeoNetwork logo, featuring a stylized globe and the text 'GeoNetwork open source', is overlaid on the bottom left of the screenshot.

New Geoportal Backend

Harvester configuration

The screenshot displays the 'Harvester' configuration page in the Geoportal Backend. The interface is divided into several sections:

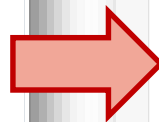
- Navigation:** Top left shows 'My GeoNetwork catalogue', 'Search', 'Map', 'Contribute', and 'Admin console'. Top right shows the user 'admin admin ADMINISTRATOR' and the language 'English'.
- Left Sidebar:** Contains 'Catalog harvesters', 'Catalog harvester report', and 'Feature harvesters'. The 'Catalog harvesters' section is active.
- Harvester List:** A table listing various harvesters. The 'BE-GEOBRU' harvester is selected and highlighted in blue. Each entry shows the harvester name, protocol, and 'Last run' status (all are 'Invalid date').
- Harvester Details (BE-GEOBRU):**
 - Harvest status:** A blue bar with a 'Harvest' button.
 - Settings:** Includes 'Harvester history' and '106 Metadata records'.
 - Update harvester BE-GEOBRU:** A header with 'Delete' and 'Save' buttons.
 - Identification:**
 - Node name and logo:** A dropdown menu showing 'BE-GEOBRU' with a Belgian flag icon. Description: 'The name describing the remote node.'
 - Group:** A dropdown menu showing 'Belgium'. Description: 'Group which owns the harvested records. Only the catalog administrator or user admin of this group can manage this node.'
 - User:** A dropdown menu showing 'admin admin (admin)'. Description: 'User who owns the harvested records.'
 - Schedule:** Includes 'Enable' and 'disable' buttons.
 - Configuration for protocol OGC CSW 2.0.2 (remote harvester):**
 - Service URL:** A text input field containing 'https://geobru-geonetwork.irisnet.be/geonetwork/inspire/fre/csw'. Description: 'CSW URL with or without GetCapabilities parameters.'
 - Process CSW endpoints in the service metadata:** A checkbox that is currently unchecked. Description: 'Harvest the metadata of the CSW endpoints referenced by the service metadata.'
 - Number of records to retrieve per request:** A text input field containing '20'.

New Geoportal Backend

OGC Filters support

The screenshot shows the 'My GeoNetwork catalogue' admin interface. On the left, a sidebar lists 'Catalog harvesters', 'Catalog harvester report', and 'Feature harvesters'. The main area displays a list of harvesters, with 'DK (OGC CSW 2.0.2 (remote harvester))' selected. The right panel shows the configuration for the DK harvester, including 'Harvest status', 'Settings', 'Harvester history', and '449 Metadata records'. The configuration includes fields for 'Node name and logo' (DK), 'Group' (Denmark), 'User' (admin admin (admin)), and 'Service URL' (https://www.geodata-info.dk/srv/dan/csw).

DK	https://www.geodata-info.dk/srv/dan/csw	<pre><ogc:Filter xmlns:ogc="http://www.opengis.net/ogc"> <ogc:PropertyIsEqualTo> <ogc:PropertyName>Subject</ogc:PropertyName> <ogc:Literal>INSPIRE</ogc:Literal></ogc:PropertyIsEqualTo> <ogc:PropertyIsEqualTo> <ogc:PropertyName>Subject</ogc:PropertyName> <ogc:Literal>Inspire</ogc:Literal></ogc:PropertyIsEqualTo> <ogc:PropertyIsEqualTo> <ogc:PropertyName>Subject</ogc:PropertyName> <ogc:Literal>inspire</ogc:Literal></ogc:PropertyIsEqualTo> </ogc:Filter></pre>
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The 'Search filter' configuration UI shows a text box with instructions: 'Optionally use one or more search criteria below to restrict the records to harvest. For the 'like' operator use '%' for wildCard, '_' for single char and '\' for escape char.' Below this, there are three filter entries, each with a dropdown for the operator (currently set to 'EQUAL'), a text input for the property name (currently 'Subject'), a text input for the value (currently 'INSPIRE', 'Inspire', and 'inspire' respectively), and a red 'X' button to delete the filter. An '+ Add Filter' button is at the bottom.

New Geoportal Backend Dashboard: Harvesting results

- Standard UI will change in future.
- # Metadata records.
- # Downloadable datasets.
- # Viewable datasets.
- M&R Indicators.

The screenshot displays the 'Harvester' section of the Geoportal Backend Dashboard. The interface includes a sidebar with navigation options like 'Catalog harvesters', 'Catalog harvester report', and 'Feature harvesters'. The main content area shows a list of harvesters, each with a status indicator and a 'Last run' timestamp. A 'Filter' input is at the top of the list. Below the list, there are buttons for '+ Harvest from -', 'Clone', and a refresh icon. A 'Need help' link is at the bottom left.

On the right side, the 'Harvest status' section provides a summary of the harvesting process. It shows '81 Metadata records' and a donut chart illustrating the distribution of resources: 80 Datasets and 21 Services. Below the chart, there are two buttons: 'Download service' (57) and 'View service' (58). The 'Capabilities type' section indicates that the most common type is WMS/WFS/WMTS/ATOM. The 'Capabilities documents has matching layer' section shows 58 PASS and 2 FAIL results. The 'All the Capabilities Layer links resolved' section shows 20 PASS and 1 FAIL results.

Monitoring & Reporting 2021

How the activity will be carried out

System to be used

- Current INSPIRE Geoportal will be used to run the M&R 2021 and obtain the results.
- Transition year: the new Geoportal based on GeoNetwork will not be ready for MS to be tested in advance.

Approach

- The new simplification approach from MIG-T Sub-group 2.3.2. “Data-service linking” will not be considered yet: neither ready nor agreed.
- JRC is planning to additionally obtain this year M&R indicators with the new Geoportal prototype/system, as a baseline/test-bed for next year’s M&R.

Monitoring & Reporting 2021

Bug-fixing of the current Geoportal

- Focusing on bugs with highest impact.
- List of issues to be fixed:
 - (#3 and #4)
 - Proper recognition of declared conformity in the metadata.
 - Interference of temporal extents in the declared conformity.
 - (#49) Refinements in harvesting large catalogues.
 - (#52, #53, #55, #57) - Analysis is in progress.
- Targeted resolution:
 - 15th November.
 - Work is ongoing.

Thank you!



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