State of GeoNetwork

FOSS4G 2022 - Firenze, IT
2 versions actively supported

3.12.x

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4.2.x
3.12.6 is about

Minor changes backported from 4.2.x

- Metadata workflow improvements
- INSPIRE validator improvements (API token support)
- Accessibility improvements
- Authentication / KeyCloak improvements
- Map configuration improvements (overview map, map per languages)
- Minor libraries update / Switch from iText to OpenPDF

and more …
Version 4.2.0 is about

- Multilingual search support
- Table view mode for results
- Search API can contain related records
Version 4.2.0 is about

Improved navigation between related records

- series/products/collections
- services
- source datasets
- superseded records
- similar records
Version 4.2.0 is about
Distribution links clearly categorized
Version 4.2.0 is about

Dataset citation and improve DOI support
Version 4.2.0 is about

Easily creates portals with custom configurations (eg. facets, enabled modules)

Check GeoNetwork workshop for more details
Version 4.2.0 is about

Harvesting / JSON source support (eg. opendata portals)

Editing / Database search and replace

Major libraries changes / eg. Spring, Hibernate, H2

and more …
Sonarcloud / code quality tool

Old GeoNetwork codebase is using a number of languages ie. mainly Java, XSLT, Javascript.

Various level of expertise in contributors

Could help learning good practices and make code more homogenous
Coming version 4.2.1

Data browsing in record view
Coming version 4.2.1

Data browsing in record view

Discover data

Discover data
Coming version 4.2.1

- INSPIRE Atom service migration to Elasticsearch
- Editor / easily upload resources with format detection
- Indexing performance improvements
- More library updates / GeoTools, Log4j2 migration
Our ecosystem of schema plugins

The ISO Harmonized North American Profile (HNAP) is released for each 3.12 versions

Dutch profiles

ISO19115-3 is used by more and more users

DCAT2 profile experiment
A mature project brings challenges

● More technical challenges
  ○ Search / Combined search on metadata and data
  ○ More library updates of old libraries / Saxon, OpenRDF
  ○ How-to improve a 20 years old code base?

● More community challenges
  ○ How-to attract new contributors?
  ○ Finding consensus on where/how to go
2021-2022 brought new ideas and developments

GeoNetwork microservices eg. OGC API Records service (for DCAT, RSS outputs)

GeoNetwork UI

New CSW harvester created for INSPIRE Geoportal
As the Datahub is a facade for the search handling new use cases, we would like to offer a facade to the editing, for catalogs which don’t need the ISO schema complexity.

- Make metadata accessible to everyone
- Forget about metadata schemas
- Build your own editor
More on GeoNetwork this week

**Datahub: the confluence of open data and geo data**
(26/08 - 9h30)

New alternative UI as a facade on GN4 search engine
More on GeoNetwork this week

GeoNetwork and a11y: Introducing accessibility in OSGeo applications (24/08 - 16h45)

Revamped INSPIRE Geoportal - Cooking the next generation of spatial data catalogues (25/08 - 11h30)

European (INSPIRE) Data Tour (26/08 - 14h45)