GeoNetwork Opensource

Developing the glue for a global geospatial data infrastructure

Jeroen Ticheler

GEOCAT GOVERNMENT GEOGRAPHIC DATA PUBLISHING
Director

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Founder and Chair

OSGeo Sponsor · Associate
Emeritus Director - Sponsor

GEOCAT
GOVERNMENT GEOGRAPHIC DATA PUBLISHING

GeoCat focus is on knowledge of specific parts of the SDI

Describe – Publish – Find

SERVICES

GEONETWORK OPENSOURCE IMPLEMENTATION

BRIDGE©

ONE CLICK DATA PUBLISHING FOR ARCGIS

LIVE©

SERVER

CARE

PROFESSIONAL SUPPORT

GEOCAT
GOVERNMENT GEOGRAPHIC DATA PUBLISHING

GeoCat focus is on knowledge of Open Source Software Development

GEOCAT
GOVERNMENT GEOGRAPHIC DATA PUBLISHING

GeoNetwork Opensource

GeoServer

MapServer
open source web mapping

PostGIS
Geospatial Objects for PostgreSQL

Server software

GEOCAT
GOVERNMENT GEOGRAPHIC DATA PUBLISHING

Desktop or portable applications

ArcGIS™ Desktop

GEOCAT BRIDGE©

It started in 2000 at

with initial support from:

GeoNetwork Opensource

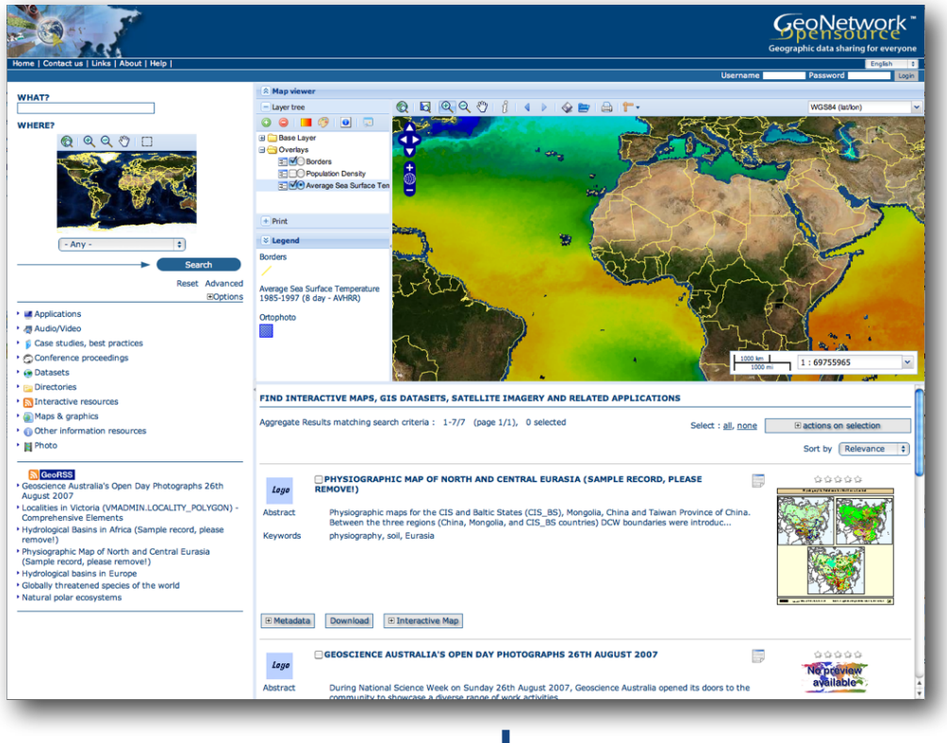
A very comprehensive metadata editing and management system

The Basic Building Blocks

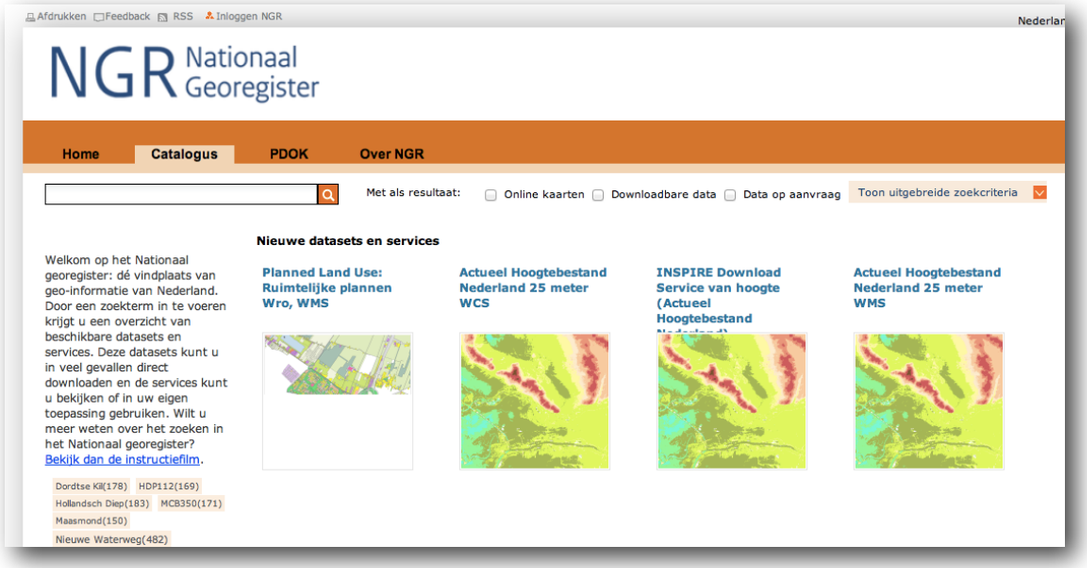
- ISO TC211 Standards
- OGC Standards
  (Open Geospatial Consortium)

The glue in a Spatial Data Infrastructure

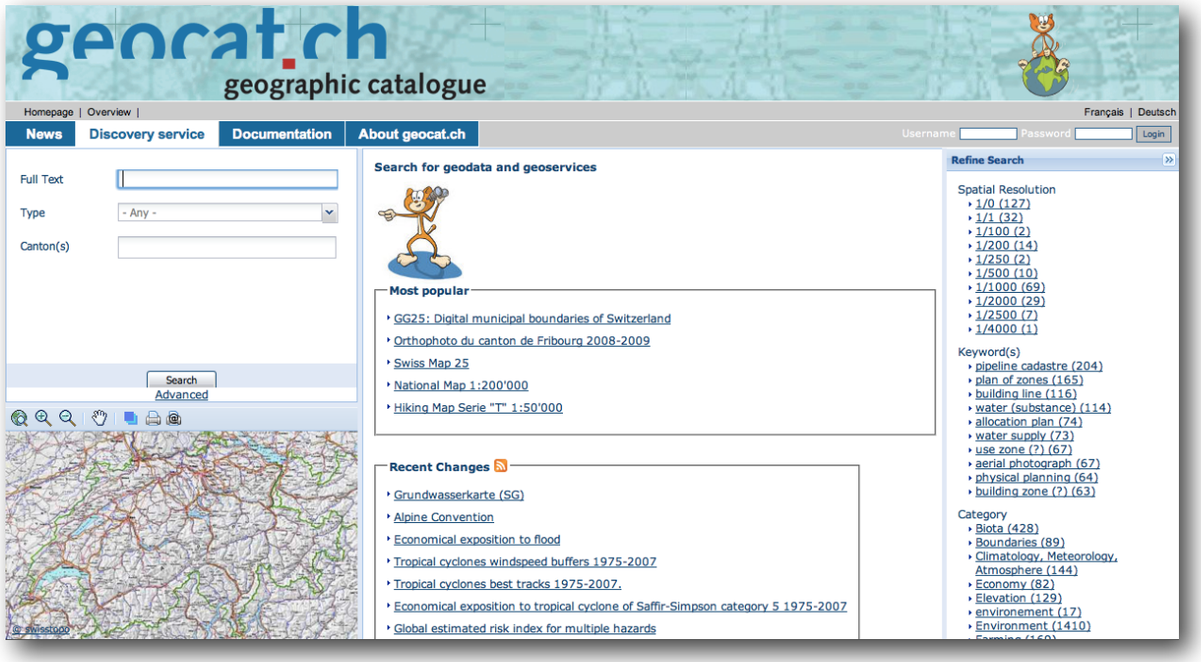
GeoNetwork opensource



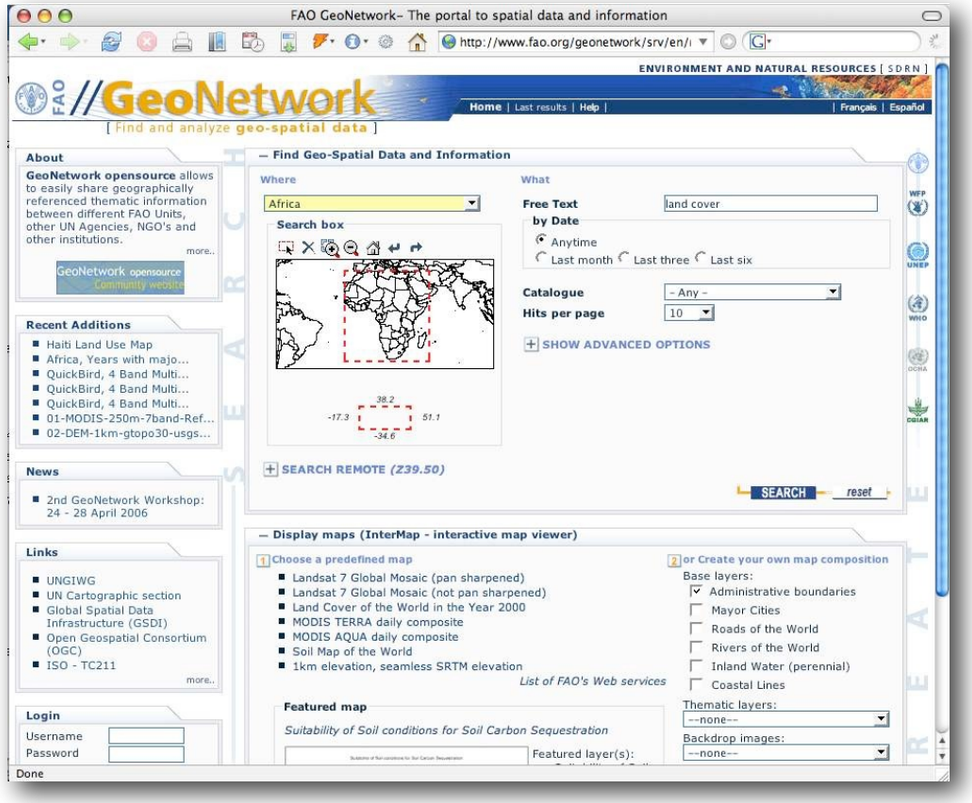
Dutch National Geo Registry



SwissTopo geocat.ch



FAO GeoNetwork



How is it developed?

A Community Driven Project

GeoNetwork Opensource

Search Documentation...

News | Documentation | Download | Community | Gallery | Development

Home

next | index

GeoNetwork opensource

GeoNetwork is a catalog application to manage spatially referenced resources. It provides powerful metadata editing and search functions as well as an embedded interactive web map viewer. It is currently used in numerous Spatial Data Infrastructure initiatives across the world.

GeoNetwork has been developed to connect spatial information communities and their data using a modern architecture, which is at the same time powerful and low cost, based on the principles of Free and Open Source Software (FOSS) and International and Open Standards for services and protocols (a.o. from ISO/TC211 and OGC).

The software provides an easy to use web interface to search geospatial data across multiple catalogs, combine distributed map services in the embedded map viewer, publish geospatial data using the online metadata editing tools and optionally the embedded GeoServer map server. Administrators have the option to manage user and group accounts, configure the server through web based and desktop utilities and schedule metadata harvesting from other catalogs.

Main features

- Immediate search access to local and distributed geospatial catalogues
- Up- and downloading of data, graphics, documents, pdf files and any other content type
- An interactive Web Map Viewer to combine Web Map Services from distributed servers around the

Table Of Contents
GeoNetwork opensource
» Main features
» Standards Implemented
» Platform Independent
» Community and OSGeo
» Professional Support

Continue Reading
» Next: News

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» Show Source

Download
Current release: 2.6.4

Latest posts
» Re: Connection problems
» Re: Connection problems
» Connection problems
» Re: Polish localization of Geonetwork
» Re: Polish localization of Geonetwork
» Re: Thredds harvester
» Re: [GeoNetwork-devel] Batch Import
Join the discussion

OSGeo Project

Mailing lists

800+ on English user list

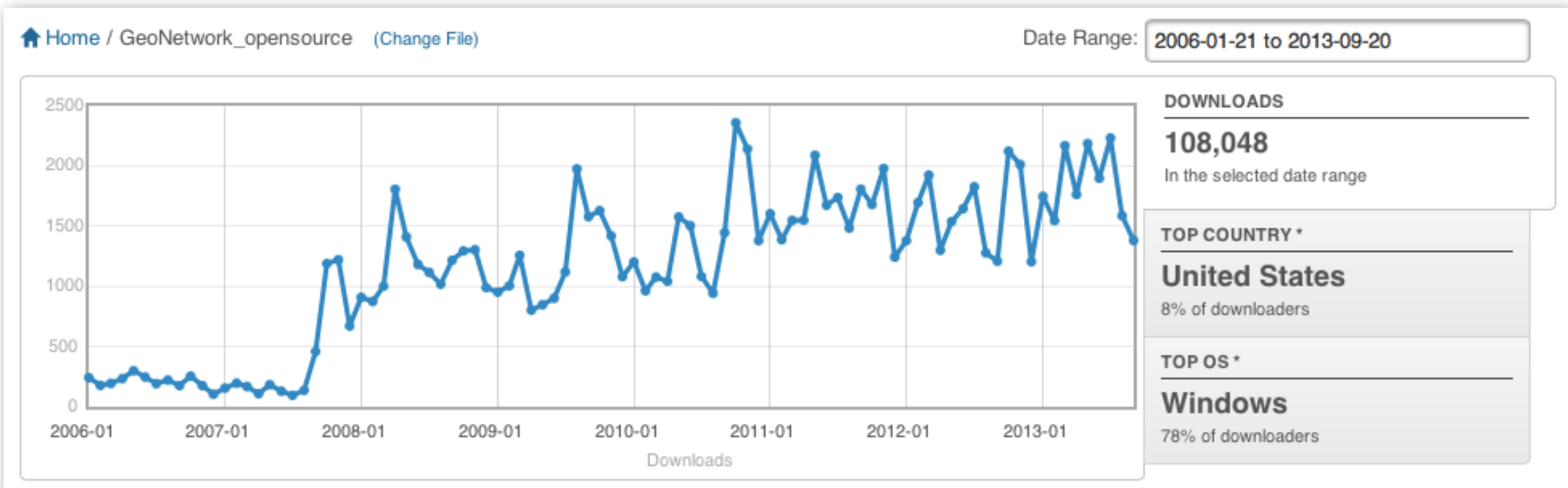
200+ on French and 200+ on Spanish lists

400+ on developer list

50+ on committer list

10+ active developers

Downloads



How do we collaborate?

- Community driven governance

  (proposal - discussion - voting - integration)
- Skype, Conference calls and Face-to-face meetings
- Work is split up in small packages
- Continuous contact between user and developer
- Commercial Support Contracts, Consulting, Development

What are the benefits

- Support common requirements
- Make testing and compliance easier
- Share cost
- Prevent vendor lock-in
- Fast innovation - we all participate

http://www.osgeo.org

Sustainability through wide community support

Metadata search - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://193.43.36.53/geonetwork/srv/en/main.search Go Links

GEONETWORK

عربي 中文 ENGLISH FRANÇAIS ESPAÑOL

SEARCH

Search Text [Extended search]

Location World

SEARCH RESET

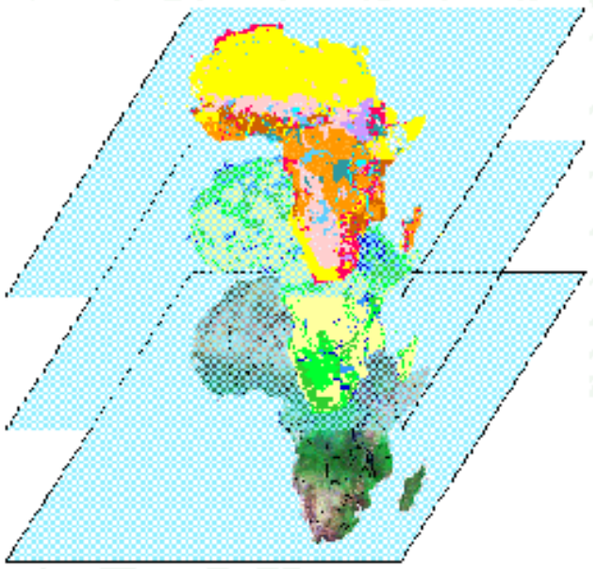
What is GeoNetwork?

GeoNetwork is an integral part of the spatial information infrastructure being developed by FAO which aims to improve access to and integrated use of spatial information to aid decision making for sustainable development among FAO member countries and stakeholders using the internet as an interoperable information exchange mechanism between UN Agencies, intergovernmental organizations and NGO's.

Username

Password

LOGIN



GeoNetwork functionality

GeoNetwork allows individuals and organizations to work interactively and visually with FAO's vast wealth of map and related information, making the earth's geography a starting point for finding, retrieving and using information. This includes population density, infrastructure, administrative boundaries, land cover/use, soils, crop zones, water, fisheries and forest resources, livestock distribution, nutrition profiles and early warning information.

For more information please contact: GeoNetwork@fao.org

Internet

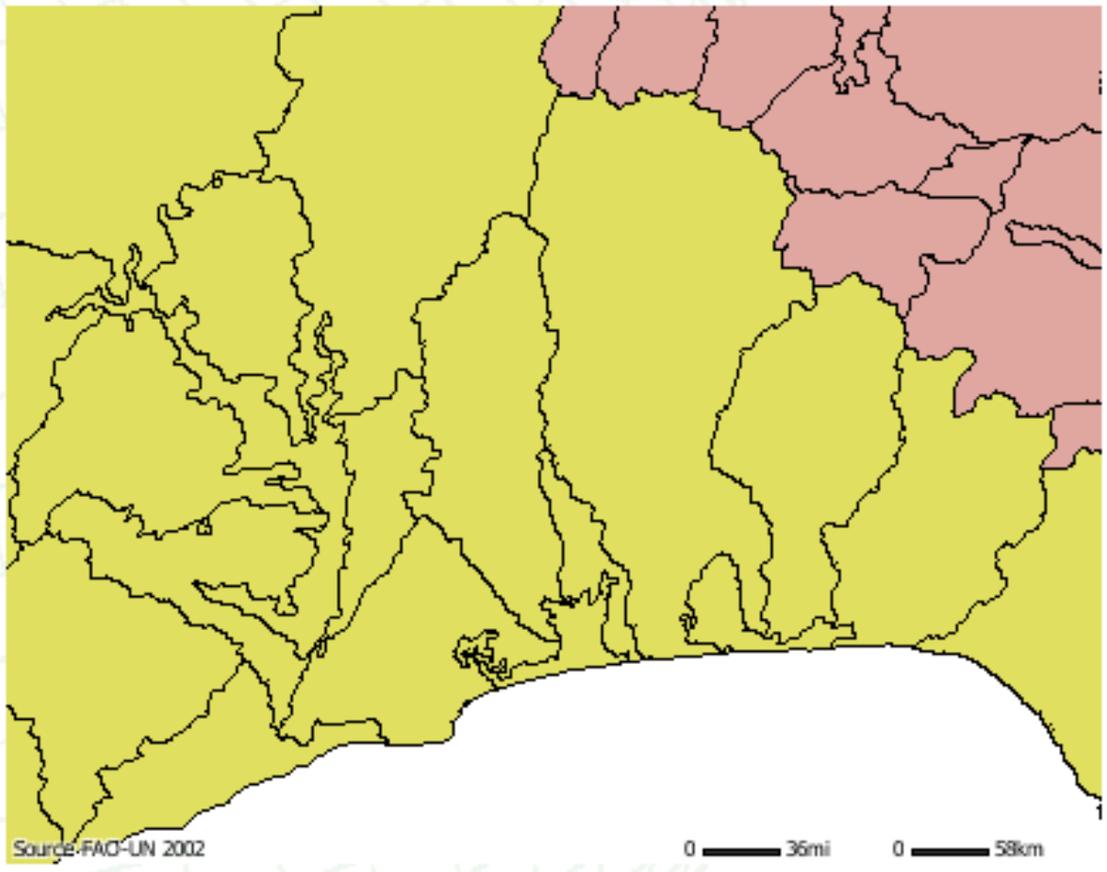
Geography Network Explorer / Map - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://193.43.36.53/geonetwork/servlet/FAO_SingleViewer?s=s&id=541&state=zoomIn&minx=-2.01331&miny=5.42 Go Links

GEONETWORK عربي 中文 ENGLISH FRANÇAIS ESPAÑOL

SEARCH RESULTS DESCRIPTION MAP



Internet

FAO GeoNetwork- The portal to spatial data and information

http://www.fao.org/geonetwork/srv/en/main.home

Google

Home | Smart Bookmarks | Latest Headlines | BBC NEWS | UNDP-APDIP Interna... | GeoNetwork openso... | Apple | GIS-RS | Mail Ticheler

ENVIRONMENT AND NATURAL RESOURCES [SDRN]

FAO //GeoNetwork

[Find and analyze geo-spatial data]

Home | Last results | Help | | Français | Español

About

GeoNetwork opensource allows to easily share geographically referenced thematic information between different FAO Units, other UN Agencies, NGO's and other institutions.

more..

GeoNetwork opensource Community website

Recent Additions

- Global map of irrigated areas
- Seychelles Archipelago Groupings
- Morne Seychellois National Park
- Apparent density of tse...
- Aggregated landcover da...
- Aggregated landcover da...
- Map B - Hunger and Heal...

Links

- UNGIWG
- UN Cartographic section
- Global Spatial Data Infrastructure (GSDI)
- Open Geospatial Consortium (OGC)
- ISO - TC211

more..

Login

Username

Password

Login

Visitors map

SEARCH

Search for Data and Information

Free Text milk

by Date

Anytime

Last month | Last three | Last six

Catalogue - Any -

Map type Digital | Hard copy

Hits per page 10

SHOW ADVANCED OPTIONS

SEARCH | reset

Display maps (InterMap - interactive map viewer)

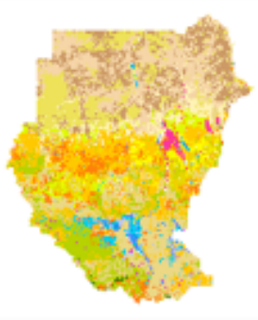
1 Choose a predefined map

- Landsat 7 Global Mosaic (pan sharpened)
- Landsat 7 Global Mosaic (not pan sharpened)
- Land Cover of the World in the Year 2000
- MODIS TERRA daily composite
- MODIS AQUA daily composite
- Soil Map of the World
- 1km elevation, seamless SRTM elevation

List of FAO's Web services

Featured map

Aggregated Multipurpose Landcover database for Sudan (Africover)



Featured layer(s):

Aggregated Multipurpose Landcover database for Sudan (Africover)

Overlay base layers

CREATE

2 or Create your own map composition

Base layers:

- Administrative boundaries
- Major Cities
- Roads of the World
- Rivers of the World
- Inland Water (perennial)
- Coastal Lines

Thematic layers: - -none- -

Backdrop images: - -none- -

CREATE

CREATE

Done

GeoNetwork opensource
Geographic data sharing for everyone

Home | Last results | Administration | Contact us | Links | About | Help
English | Français | Español | 中文
User: admin admin Logout

FIND INTERACTIVE MAPS, GIS DATASETS, SATELLITE IMAGERY AND RELATED APPLICATIONS

What? forest
Where?

Close Map Viewer

- Any -

Search

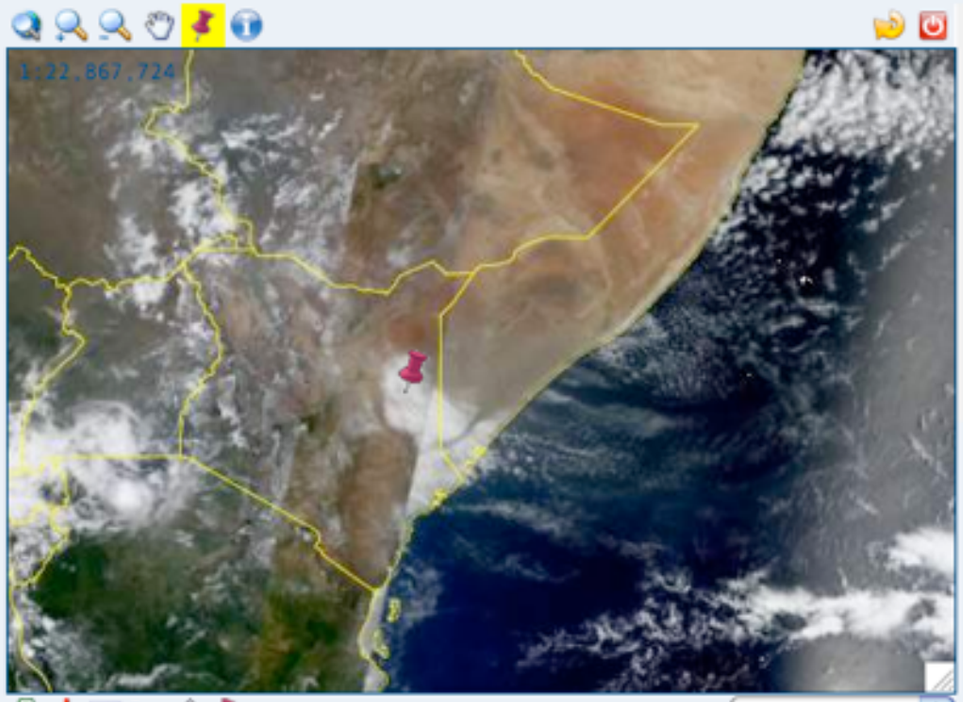
Reset Advanced Options

CATEGORIES

- Applications
- Audio/Video
- Case studies, best practices
- Conference proceedings
- Datasets
- Directories
- Interactive resources
- Maps & graphics
- Other information resources
- Photo

RECENT CHANGES GeoRSS

- Hydrological Basins in Africa
- Physiographic Map of North and Central Eurasia
- Kosovo - Index Map Serbian
- Kosovo - Municipalities
- Kosovo - Roads bridges and tunnels
- REPUBLIC OF KOREA-Country map
- Nepal Municipality Bounary
- Nepal District Boundary
- Nepal Major Rivers



Layers

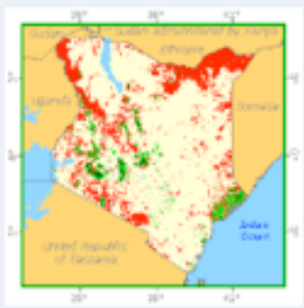
- Country boundaries
- The World's Forests 2000
- Current global view of the earth — Opaque
- WMS Global Mosaic, pan sharpened

AGGREGATE RESULTS MATCHING SEARCH CRITERIA : 1-10/97 (PAGE 1/10), SORT BY RELEVANCE

FOREST MAP OF KENYA

Abstract Expanding on the recently completed U.S. Geological Survey (USGS) global land cover characteristics database, USGS EROS Data Center is producing a global forest cover map for the United Nations Food ...

Keywords FORESTRY, FOREST RESOURCES, FOREST LAND, Kenya



Metadata

HAITI, FOREST COVER

Abstract The map has been derived from the Global Forest Cover produced in 200 by FAO-Forest Resources Assesment Programme. Four main forest classes have been identified: Closed, Open, Other Wooded Land and O

English

SIGN IN

GeoNetwork Opensource

Home | Catalog | Map | About

BROWSE >> SEARCH RESULTS

landschap

Online data | Data for download | No direct download

show advanced options

FILTER

Sort by relevance | 0 Selected | Other actions

Organizations

Provincie Zuid-Holland Directie Leefomgeving en Bestuur (6)
Provincie Gelderland (2)
Provincie Flevoland (1)
Provincie Limburg (1)
Provincie Groningen (1)

Keywords

society (8)
cultuurhistorie (7)
geschiedenis (6)
cultuur (6)
archeologie (6)
cultuurhistorische waardenkaarten (6)
environment (4)
+ Show more

Types

Dataset (11)

Scale denominators

250000 (1)
100000 (2)
50000 (7)

Cultuurhistorische...

Last update: 2012-06-07

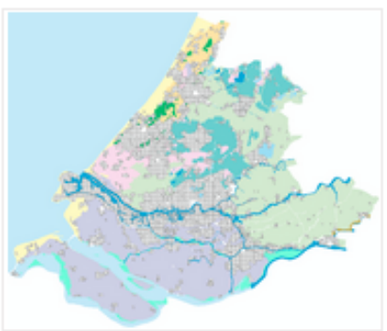
Cultuurhistorische...

Last update: 2012-06-07

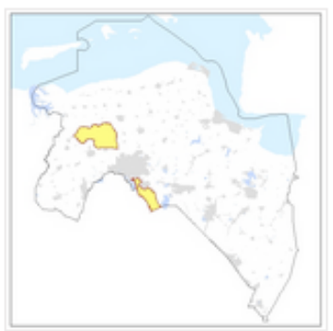
Nationaal Landschap...

Last update: 2012-12-11

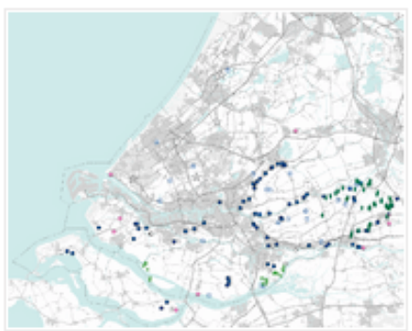
Cultuurhistorische...



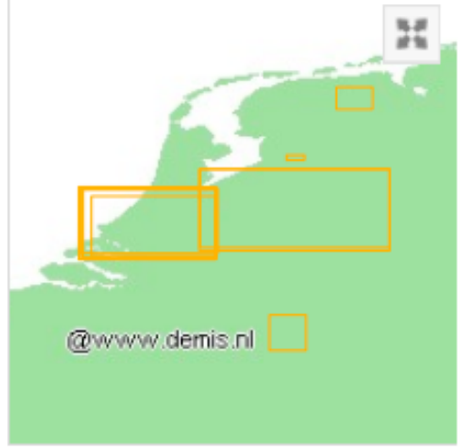
Nationaal Landschap



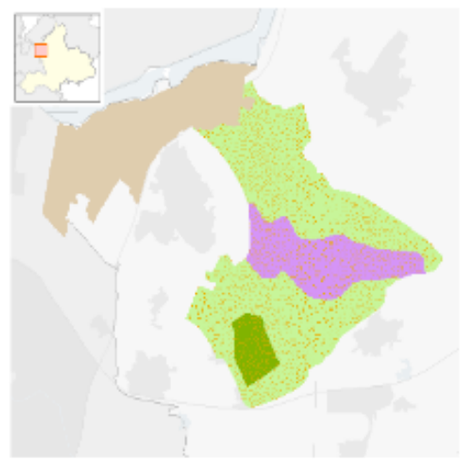
Cultuurhistorische...



PREVIEW



Cultuurhistorie- DNA-kaart, Landschap, provincie Gelderland



National INSPIRE Catalogs in Europe

based on

GeoNetwork Opensource

NGR Nationaal Georegister

Home | Catalog | PDOK | About NGR

BROWSE >> SEARCH RESULTS

Online data | Data for download | No direct data access (contact point) | show advanced options

FILTER

Organizations

Rijkswaterstaat Centrale Informatievoorziening (CIV) - Regionale Meet- en Informatiedienstverlening (4269)
Rijkswaterstaat Centrale Informatievoorziening (CIV) (4262)

Keywords

aardrijkskunde (4269)
water (4269)
hoogte (4269)
elevation (4269)
landschap (4269)
transportation (4263)
MCB350 (180)
+ Show more

Licenses

OtherConstraints (4268)
CC0 (1)

Resource types

dataset (4262)
series (6)
service (1)

Service types

view (1)

Scale denominators

10000 (1)
5000 (3974)
2000 (1)
1000 (3)
0 (289)

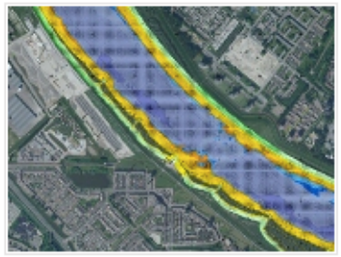
Years

2013 (344)
2012 (200)
2011 (222)
2010 (72)
2009 (236)

<< 1-50 result(s) / 4269 >>

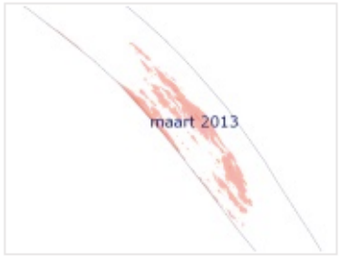
Sort by Relevance

Digitale terreinmodellen...



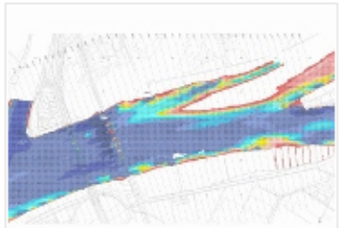
Rijkswaterstaat Centrale Informatievoorziening (CIV) - Regionale Meet- en Informatiedienstverlening

Zuid-Holland service...



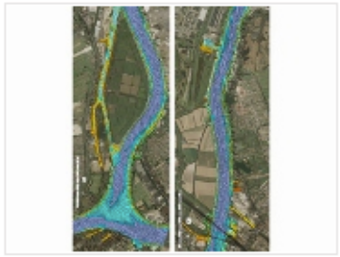
Rijkswaterstaat Centrale Informatievoorziening (CIV) - Regionale Meet- en Informatiedienstverlening

Digitale terreinmodellen...



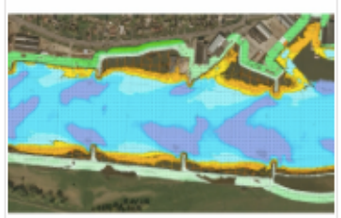
Rijkswaterstaat Centrale Informatievoorziening (CIV) - Regionale Meet- en Informatiedienstverlening

Digitale terreinmodellen...

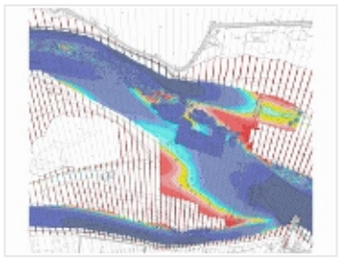


Rijkswaterstaat Centrale Informatievoorziening (CIV) - Regionale Meet- en Informatiedienstverlening

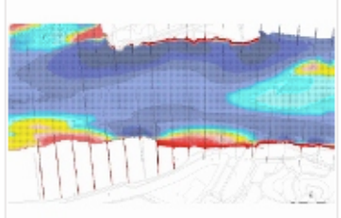
Digitale terreinmodellen...



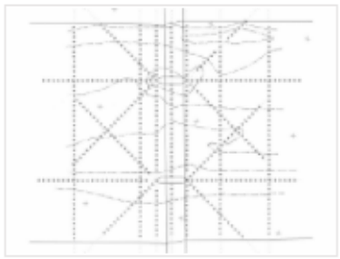
Digitale terreinmodellen...



Digitale terreinmodellen...



Afgedamde Maas Nederhemert...



Preview

Danish Ministry of the Environment
National Survey and Cadastre

Om geodata-info.dk | Links | Hjælp | Log ind

geodata-info

Simpel søgning | Avanceret søgning

Geodata-info.dk gør det muligt at søge og finde relevante geografiske data og tjenester med udgangspunkt i korte, beskrivende oplysninger - metadata.

Søg efter geografiske data

Søg

Genvej/Browse

Emnekategori

Landbrug
Biota
Grænser
Klimatologi/Meteorologi/Atmosfære
Økonomi
Højde
Miljø
Geovidenskabelig information
Sundhed
Billeder grundkort/Jorddække
Efterretninger/Militær

Dataansvarlig

Banedanmark
By- og Landskabsstyrelsen, Miljøministeriet
DAGI-datasættet er et standardiseret referenceda
Danmarks Miljøportal
EMD International A/S
Erhvervs- og Byggestyrelsen
Fiskeridirektoratet
Kommunerne
Kort & Matrikelstyrelsen, Miljøministeriet
Kulturarvsstyrelsen
Miljøcenter Aalborg, Miljøministeriet

Nyheder

Geodata-info.dk er blevet opdateret med nye søgemuligheder i den avancerede søgning, popups med printervenlig præsentation af søgeresultaterne samt links til visning og download af metadata.

Sidst opdateret

- Danmarks Højdemodel, DHM/Terræn
- Danmarks Højdemodel, DHM/Overflade
- FrededeFortidsminder
- Beskyttede sten- og jorddiger.
- Geodata-info.dk

Searching all content at National level

Canada

Français

Government of Canada | Gouvernement du Canada

Canada

Environment Canada Data Catalogue *Describe, Publish, Discover*

Home | Search | Browse | Map | Request an account | Log In | Help

Home

Home

Type Search keywords here

EC Data Catalogue Search

Advanced Search

The Environment Canada (EC) Data Catalogue is a one stop solution for (1) describing, (2) publishing and (3) discovering EC datasets.

1. **Describe:** Data stewards create metadata within the catalogue to describe EC Datasets.
2. **Publish:** Data stewards publish EC datasets to the Data Catalogue tool (intranet) and external data portals (internet), such as Government of Canada Open Data Portal and GeoConnections Data Portal (Canadian Geospatial Data Infrastructure).
3. **Discover:** Stakeholders search the published datasets to discover and access EC data.

EC Data Catalogue Benefits:

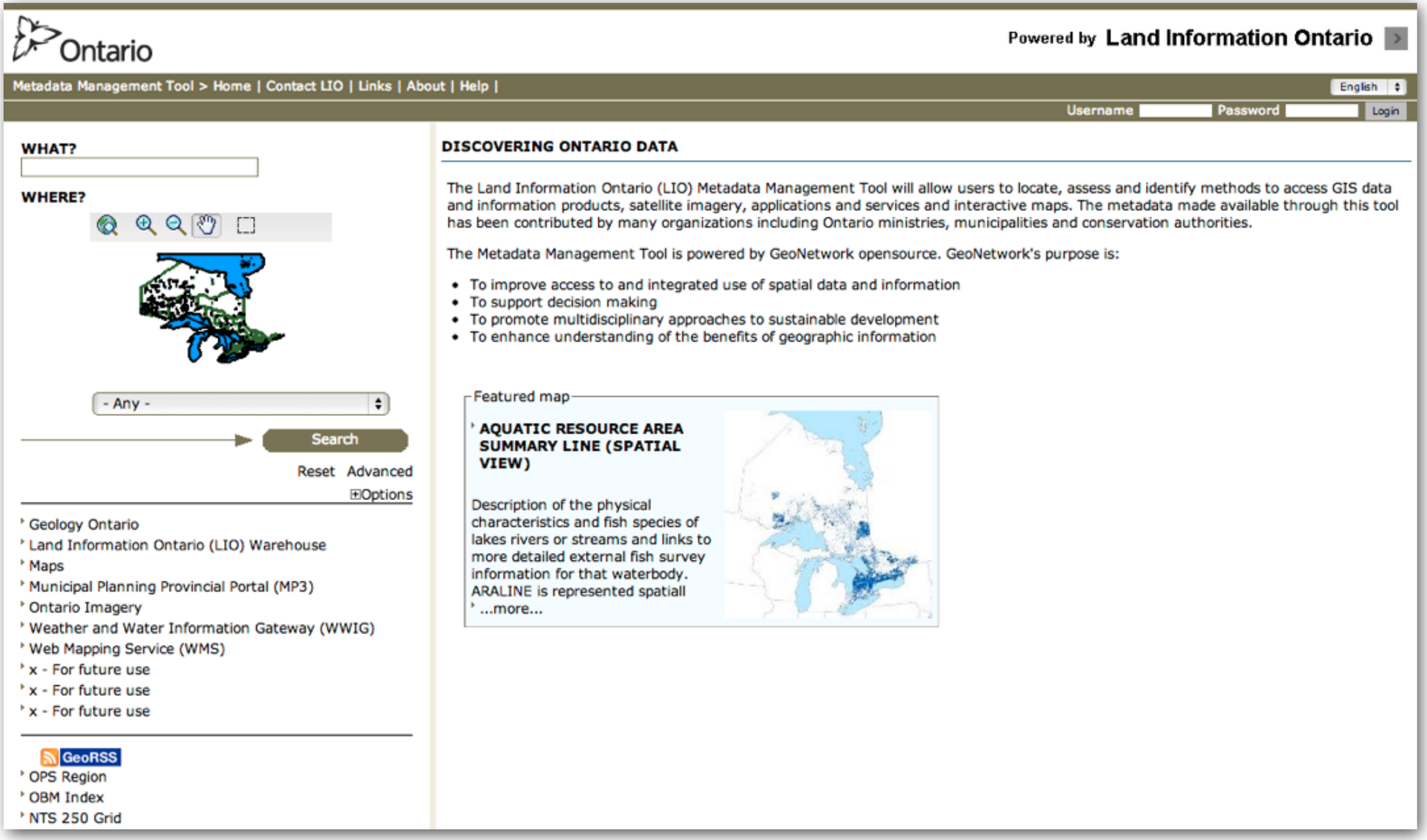
- EC's data assets are identified.
- EC's data assets are preserved over time
- EC's datasets can be found and accessed in a timely manner.
- EC's datasets can be easily published internally and externally, without having to maintain many copies of metadata on several portals.
- Canadians, scientists and other stakeholders can easily find and leverage EC datasets to their full potential – increasing the value and transparency of EC data!

About us **News** **Contact us** **Stay connected**

INTRANET

Ontario

Ministry of Natural Resources



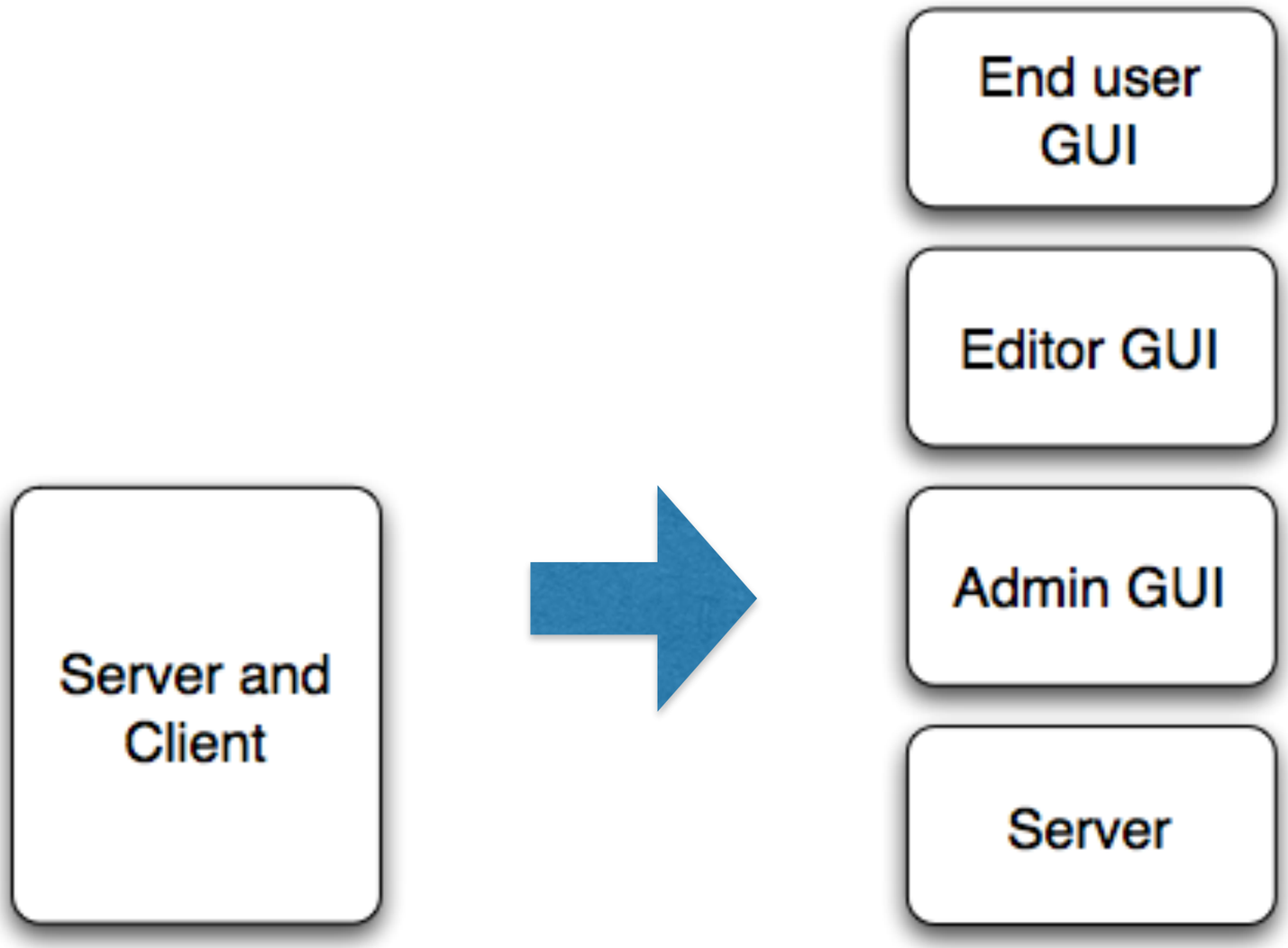
What are we working on?

Development of version 3.0

- New administration User Interface
- New metadata editor User Interface
- New Search User Interface

Most of this is build upon existing functionality in v2.10!

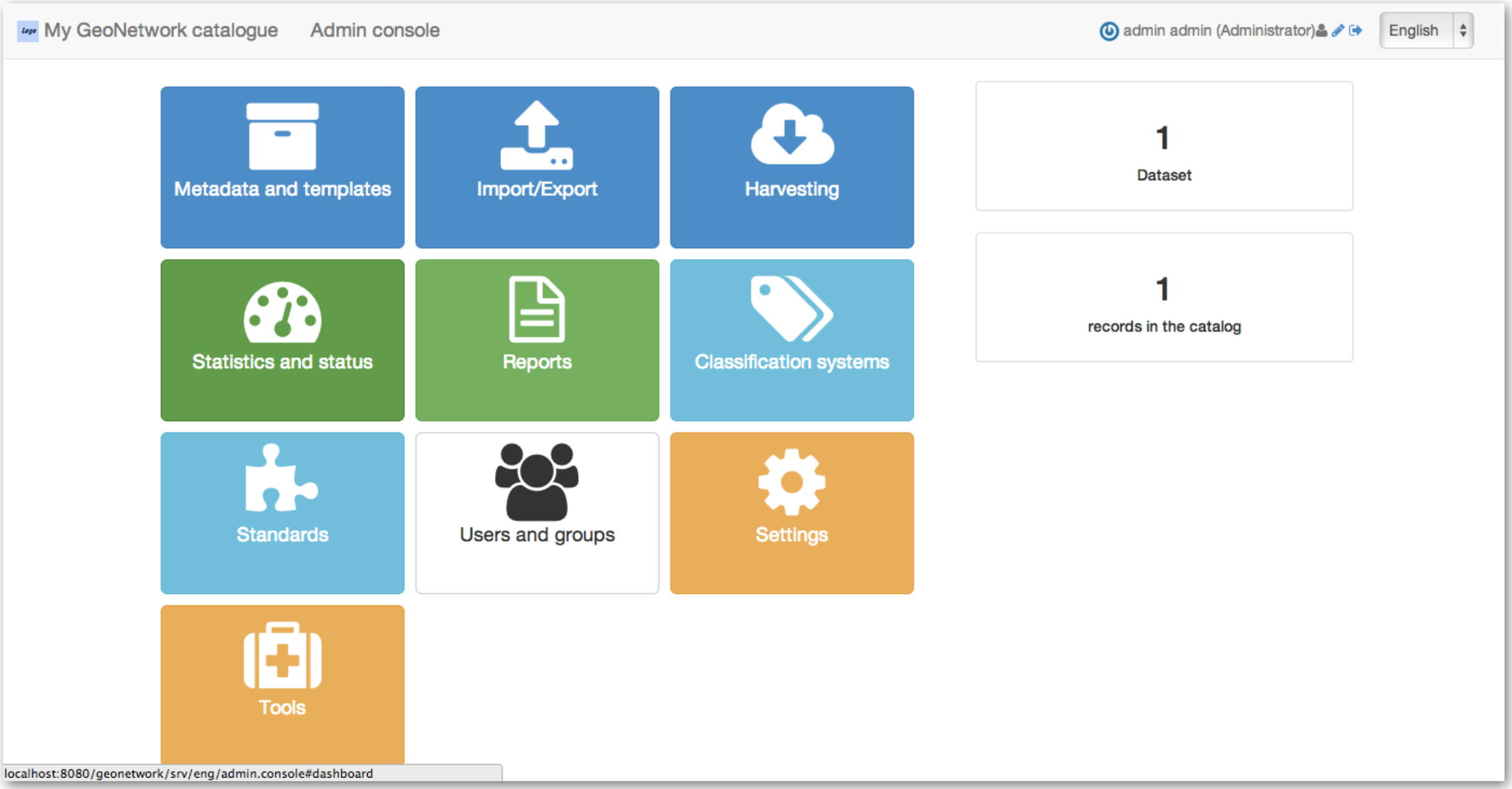
Changing Architecture



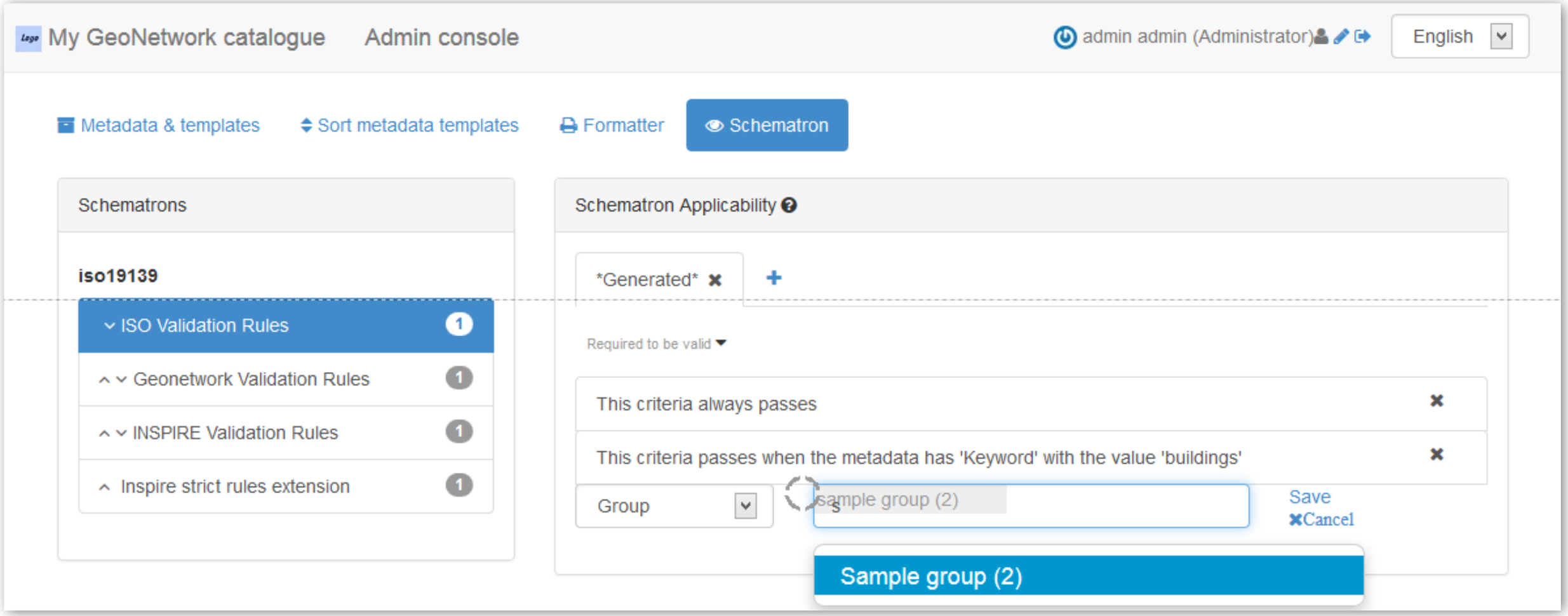
New Administration UI

Based on Angular.js, D3 and Bootstrap

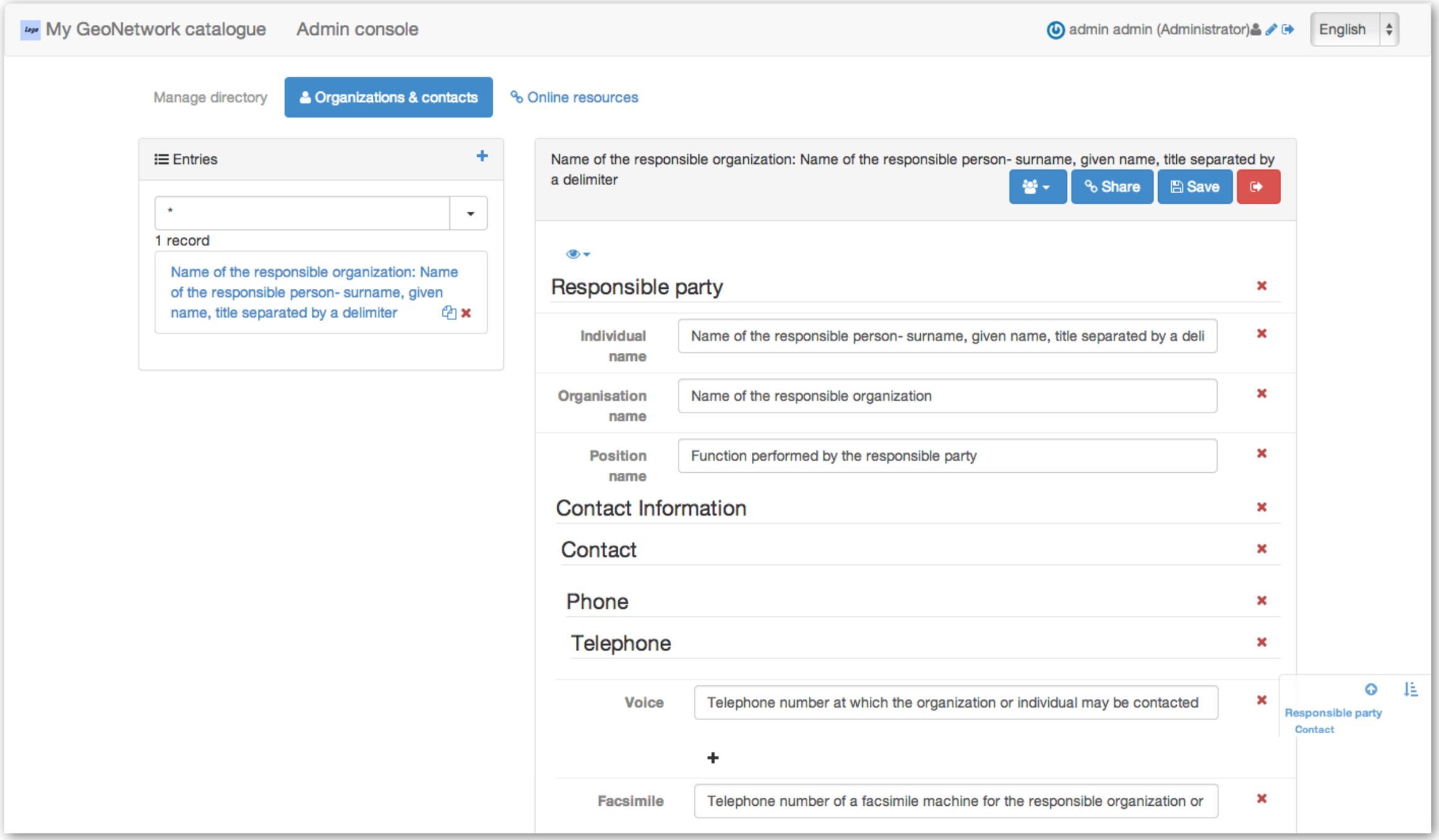
Administration console



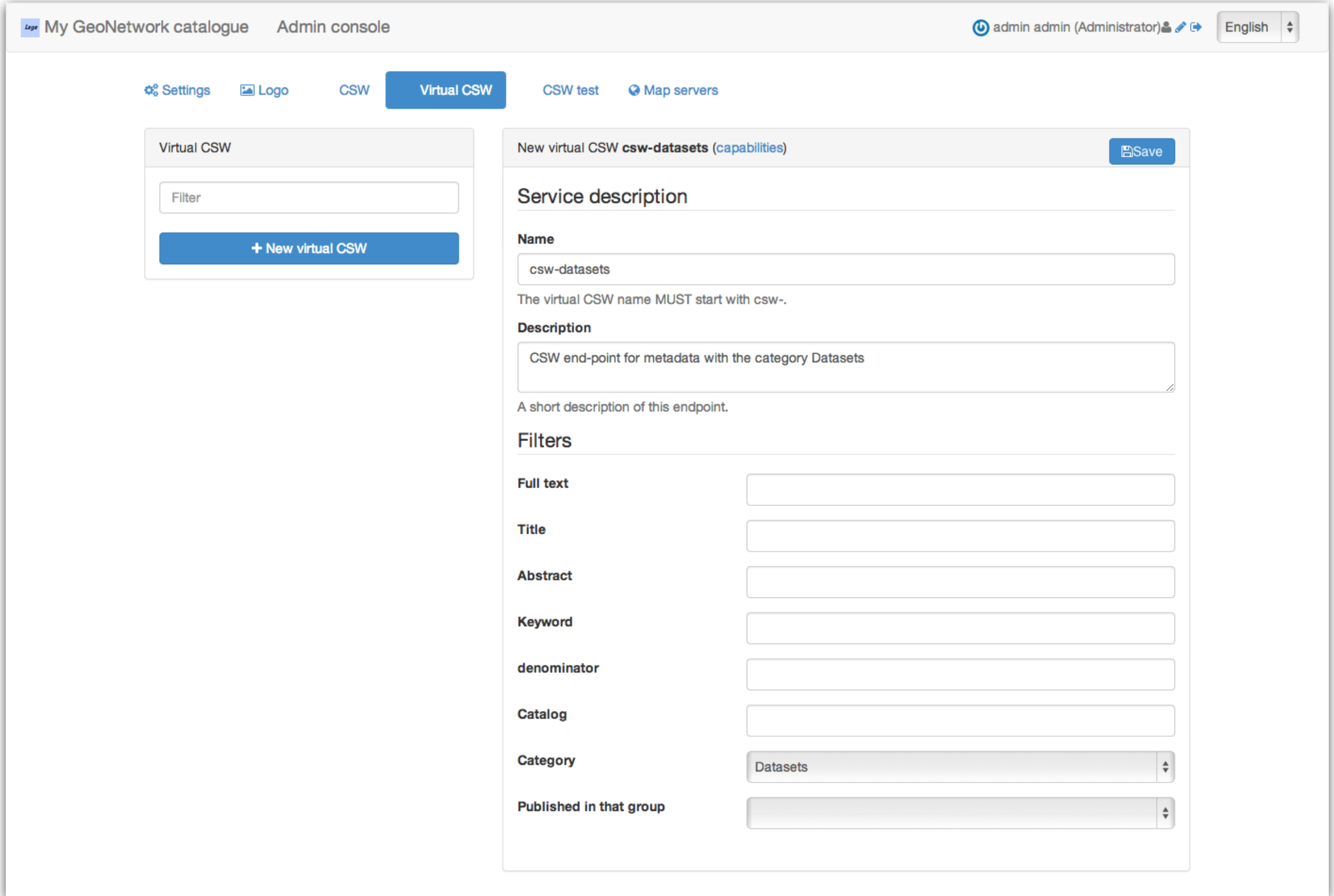
Define schematron rules



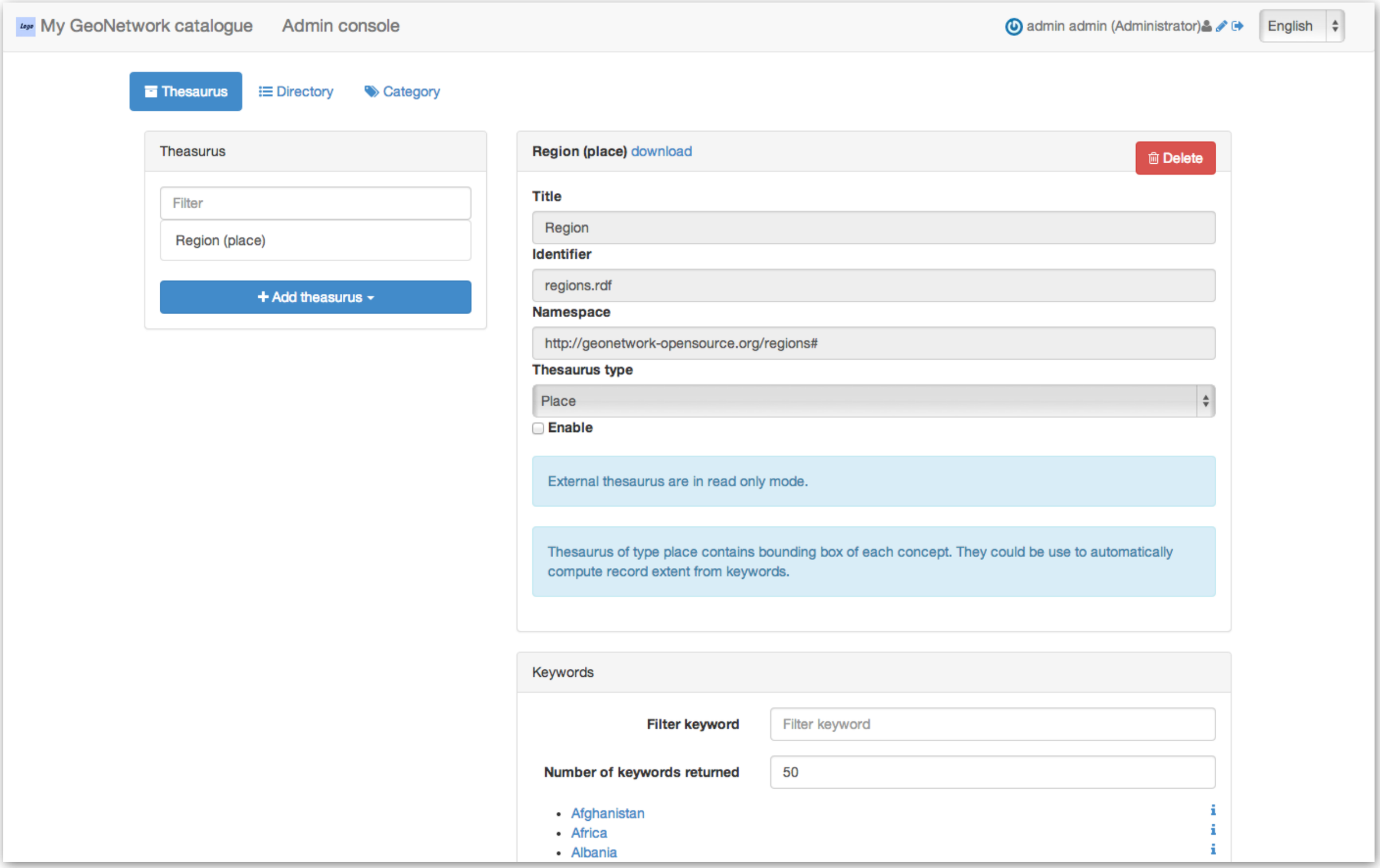
Contact directory

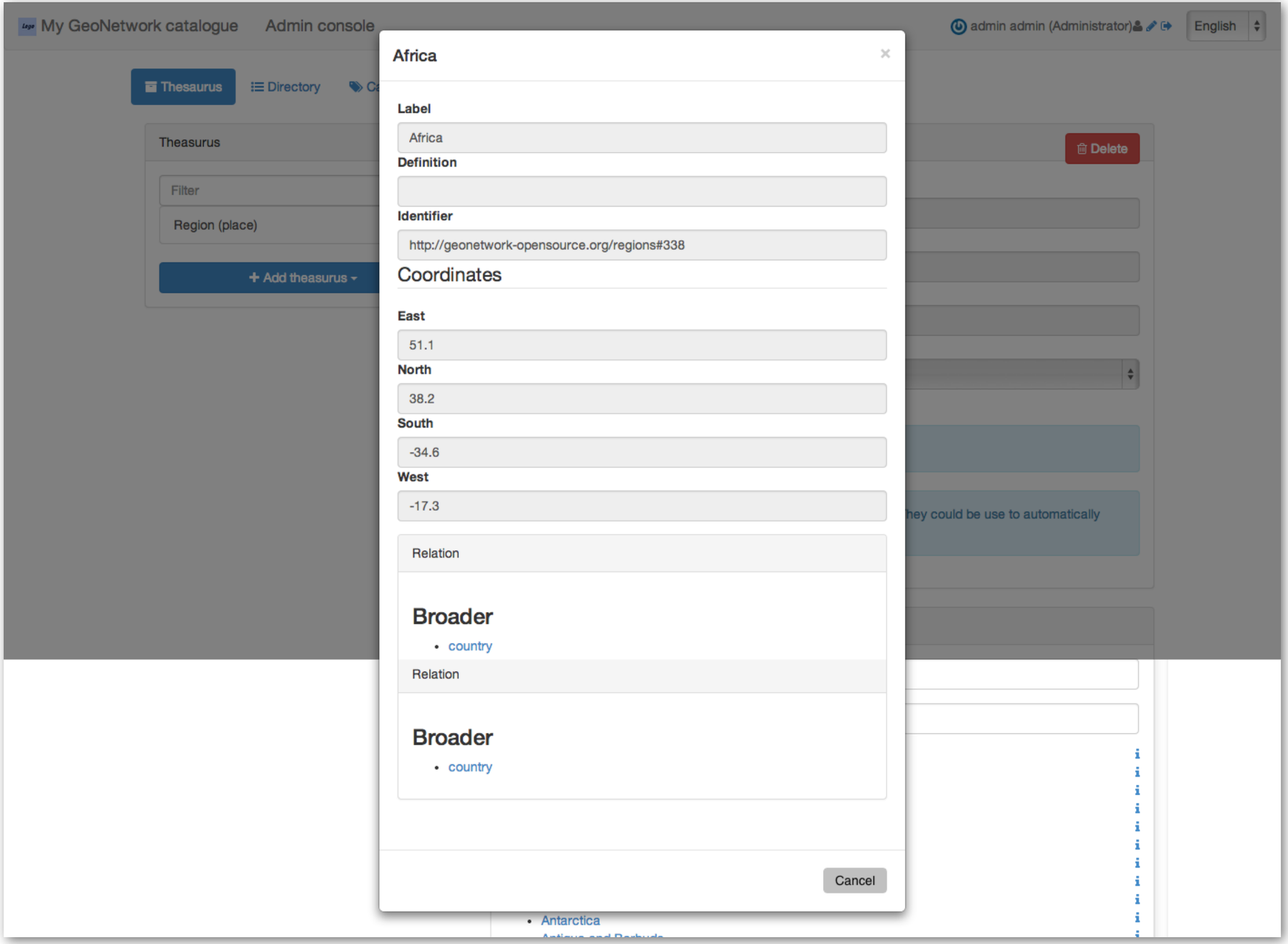


Virtual CSW configuration

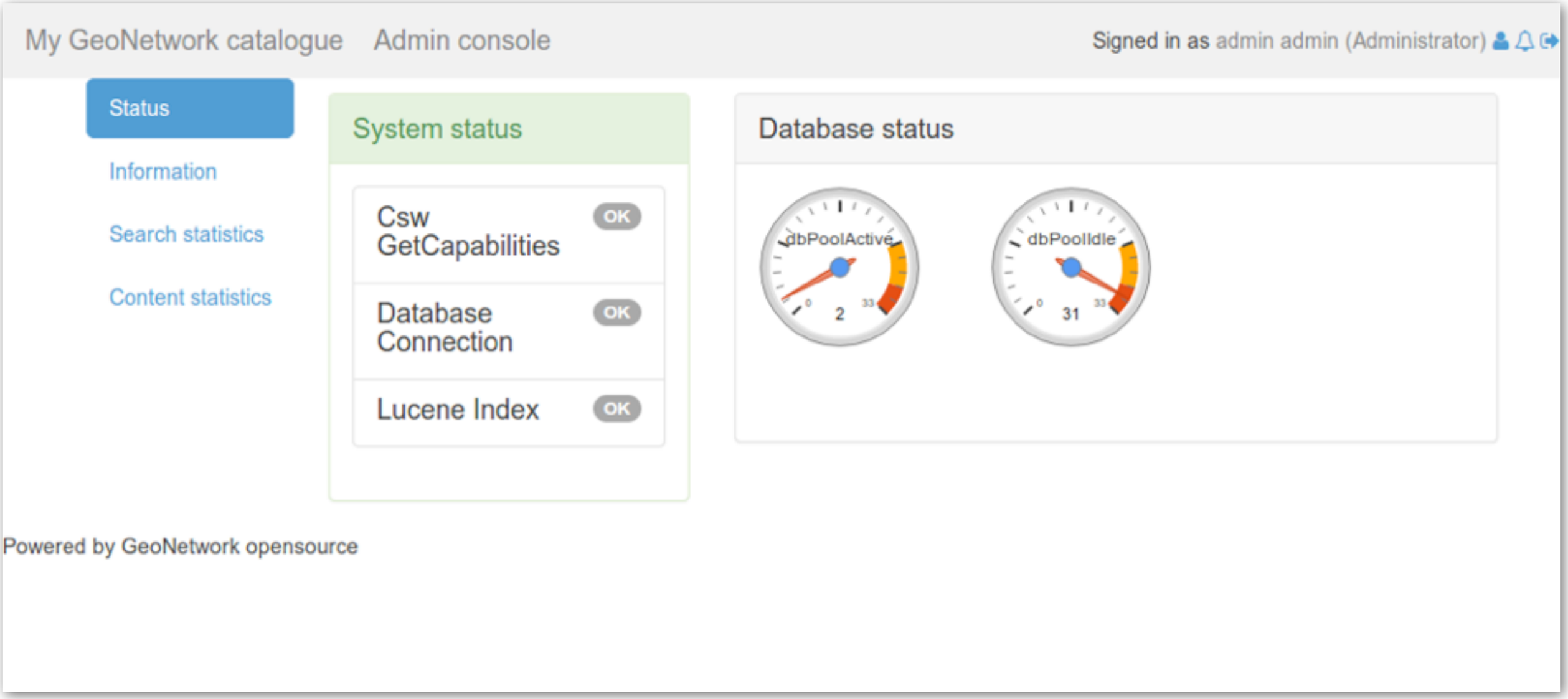


Thesaurus management




My GeoNetwork catalogue
Admin console
admin admin (Administrator)
English
Thesaurus
Directory
Theasurus
Filter
Region (place)
+ Add theasurus
Delete
Africa
Label
Africa
Definition
Identifier
http://geonetwork-opensource.org/regions#338
Coordinates
East
51.1
North
38.2
South
-34.6
West
-17.3
Relation
Broader
country
Relation
Broader
country
Cancel
hey could be use to automatically
Antarctica

System Status



Number of searches

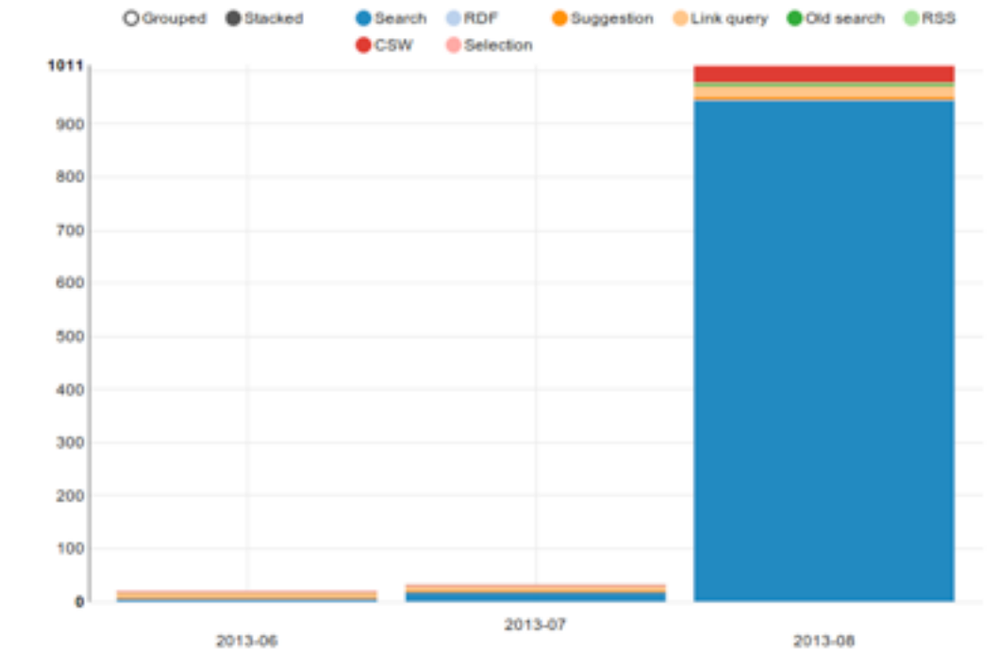
From

2013-06-19T11:17:00

To

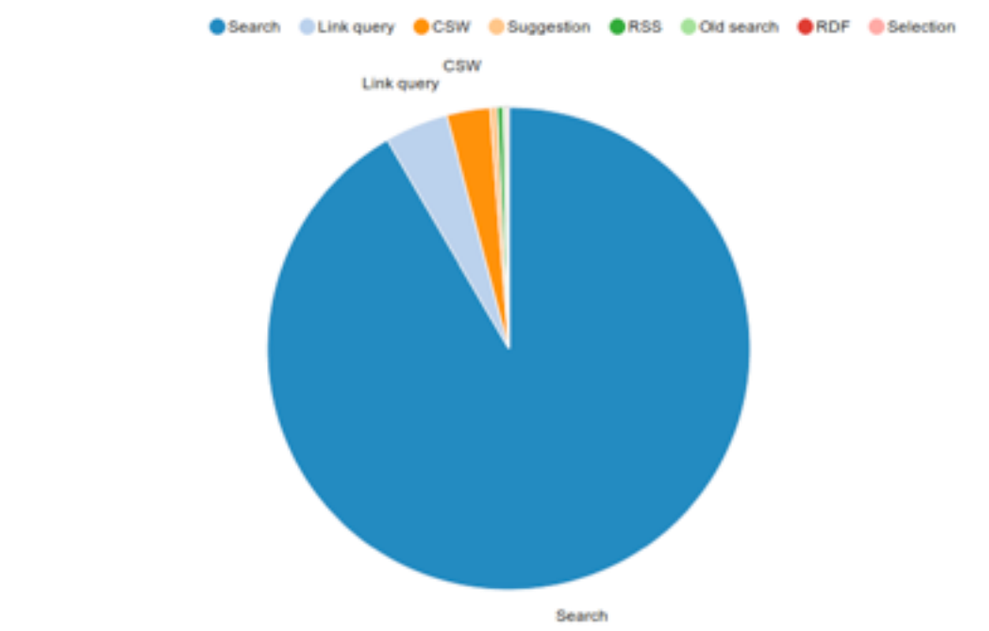
2013-08-06T15:28:10

by hour day **month** year

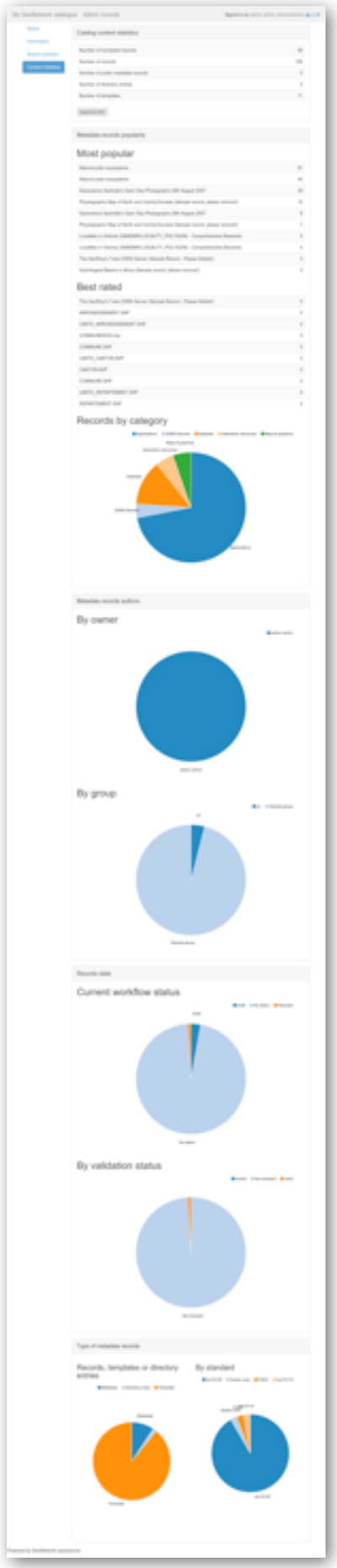


Export as CSV

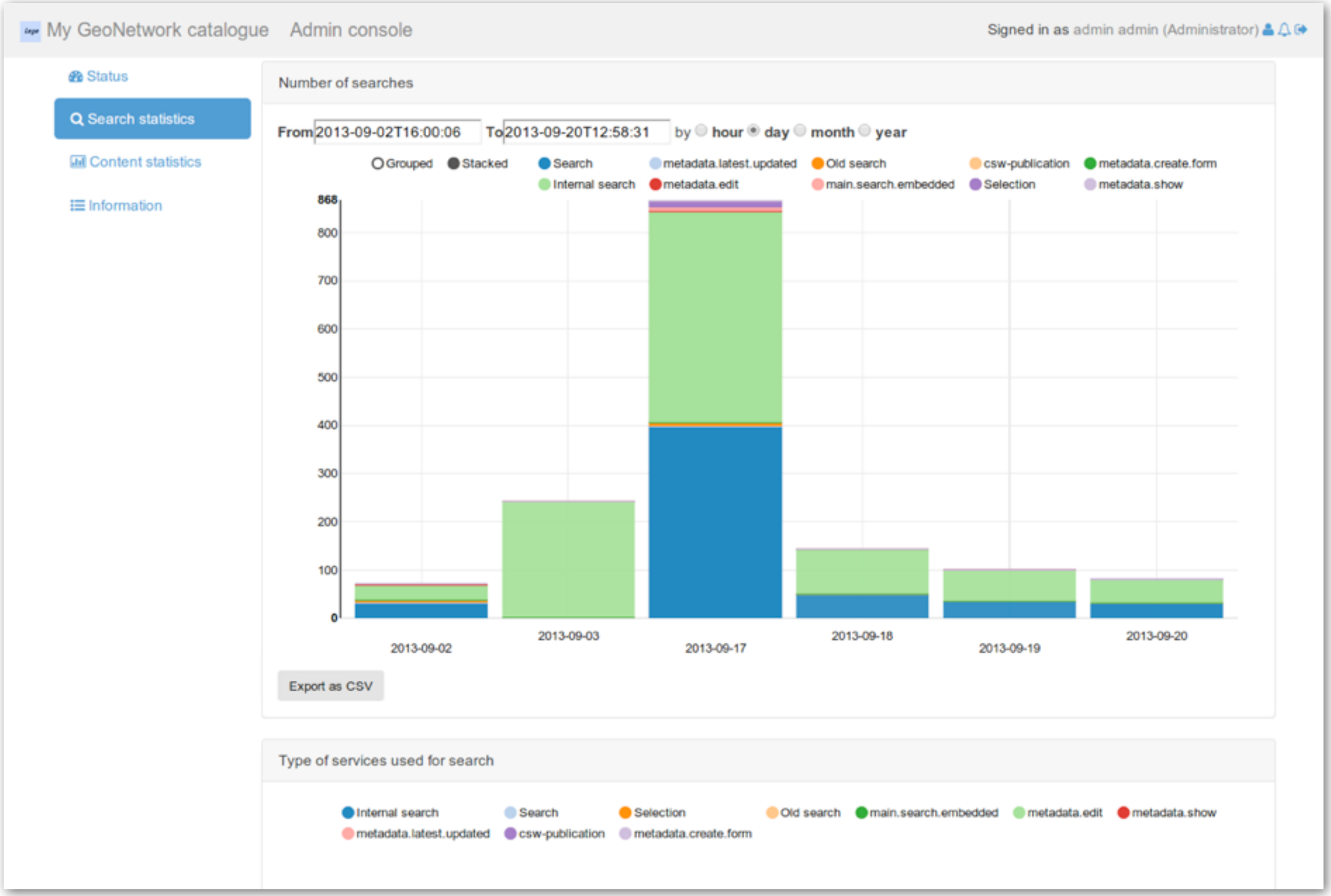
Type of services used for search



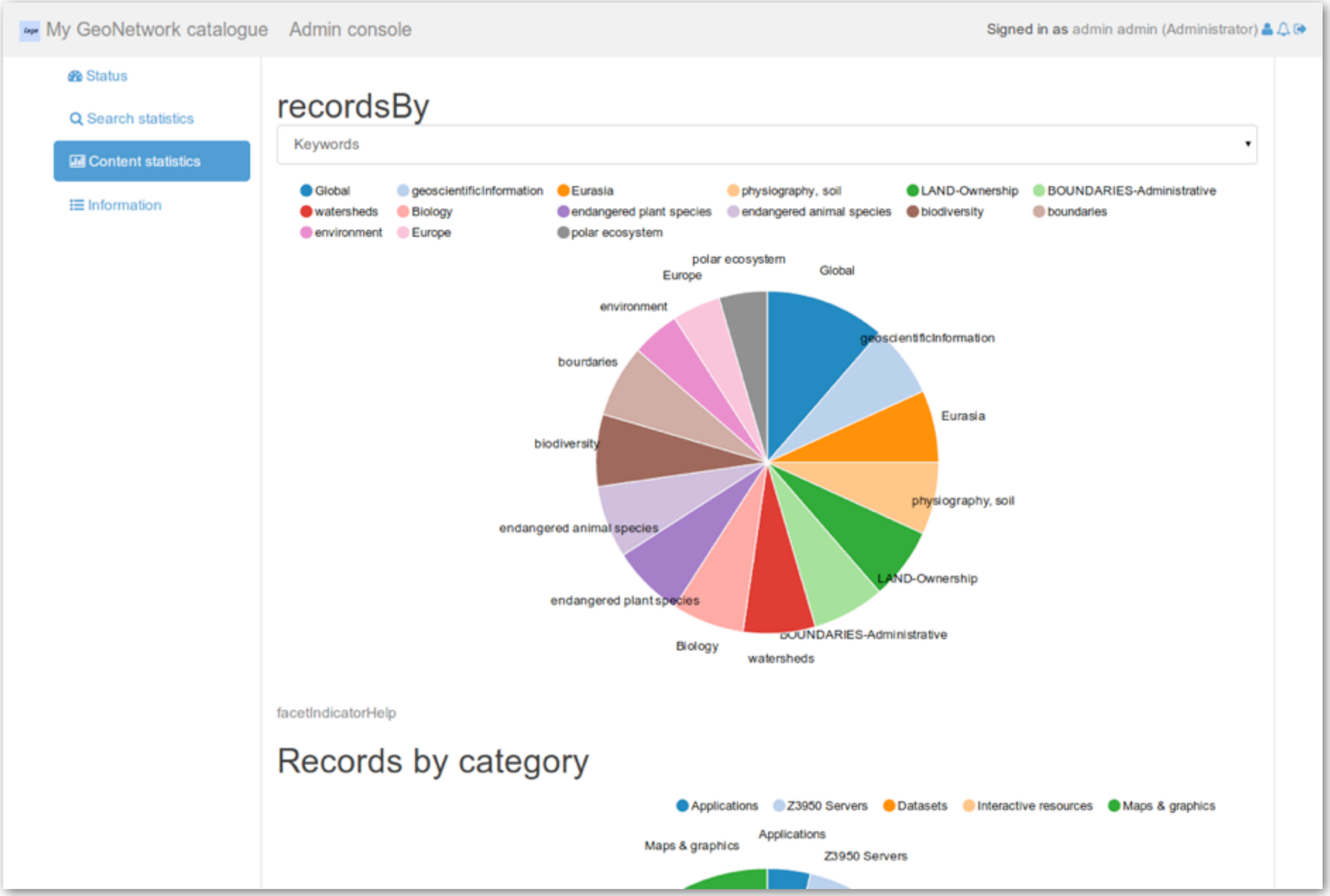
Export as CSV



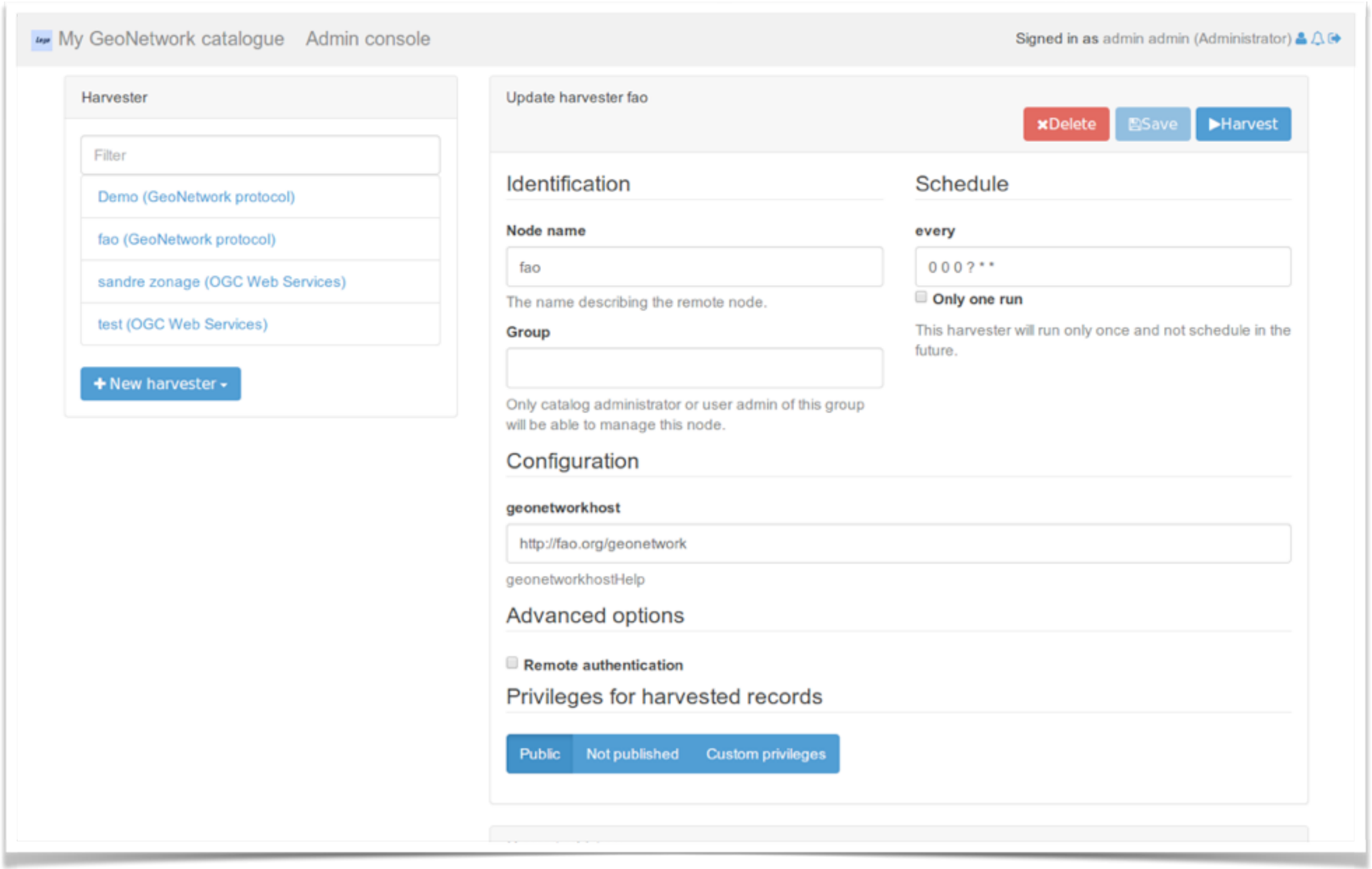
Search statistics



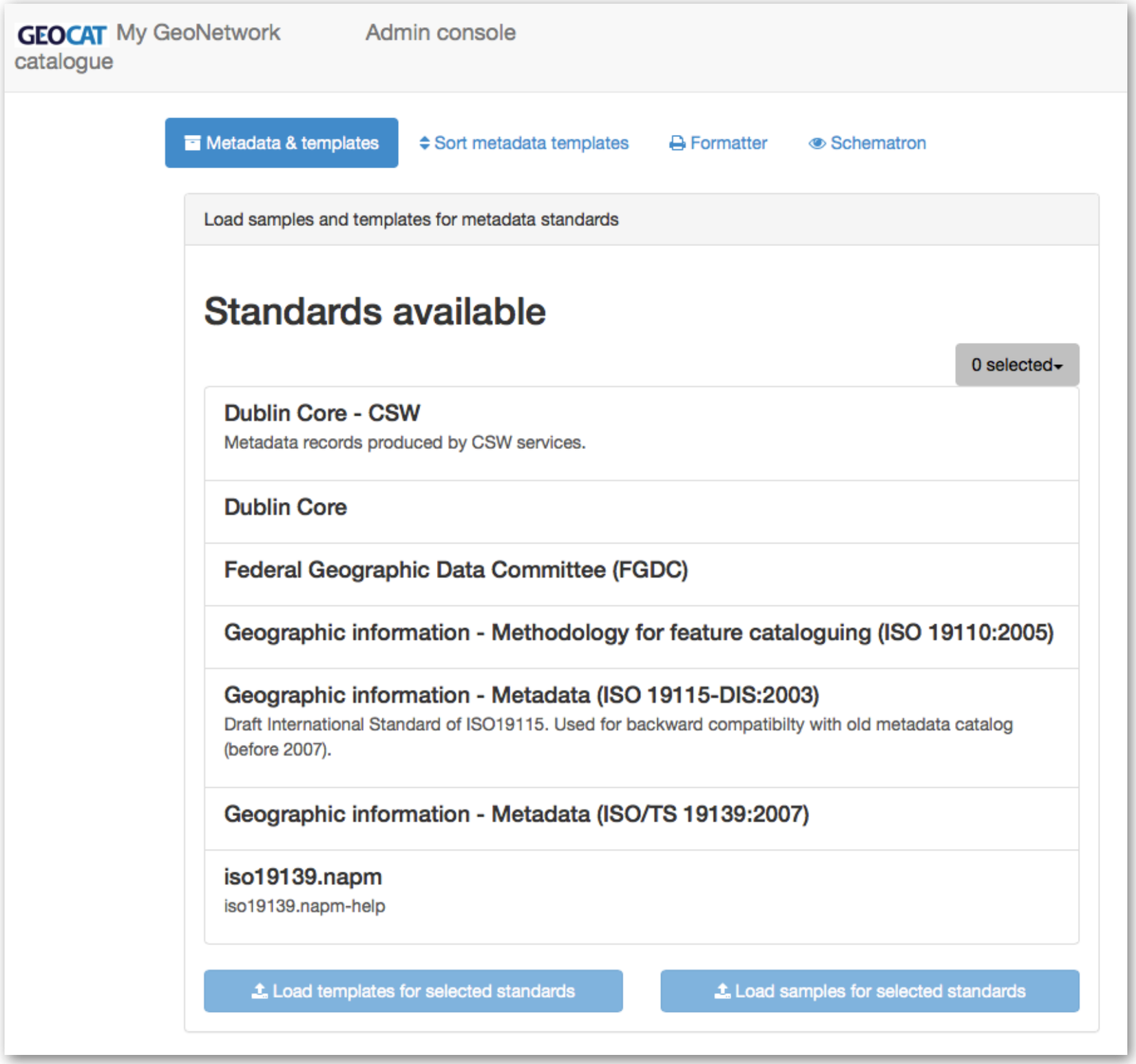
Content statistics



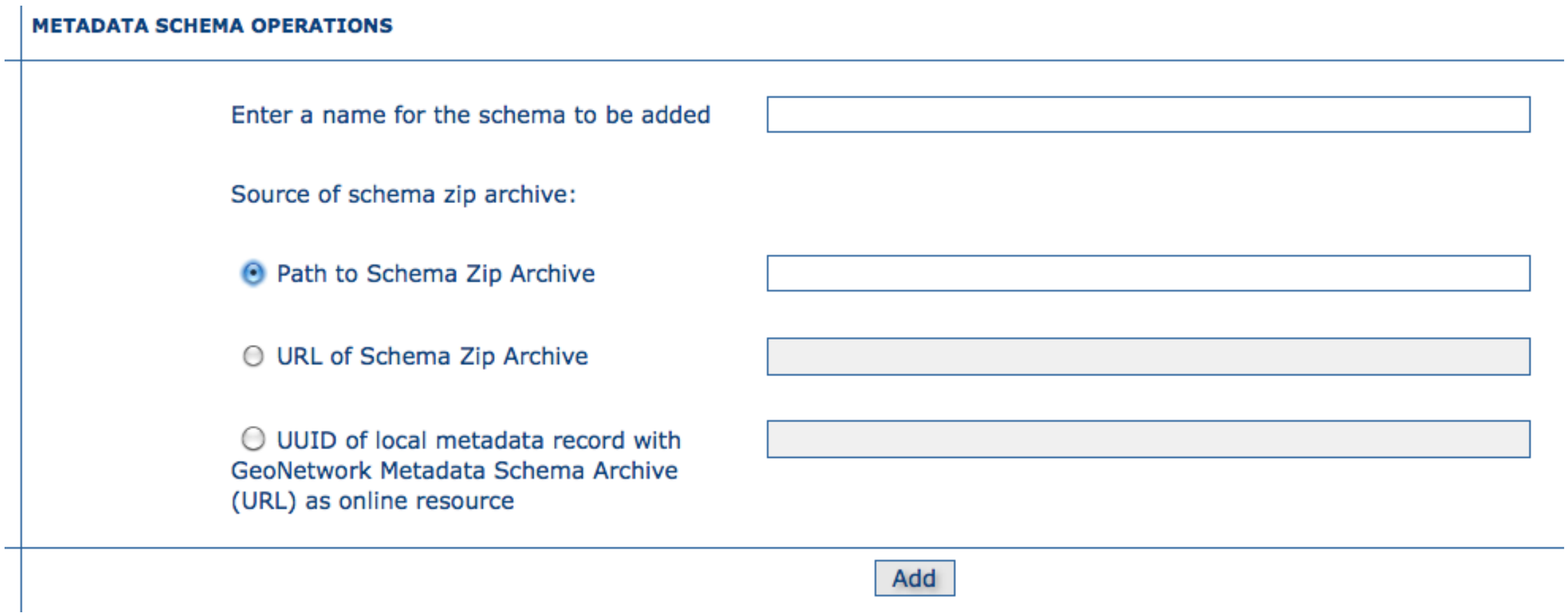
Harvester configuration



Metadata templates



Metadata Schema Plugin



http://metadata101.org

- A location to collect, develop and maintain metadata profiles

- Easy collaboration

- Github repository

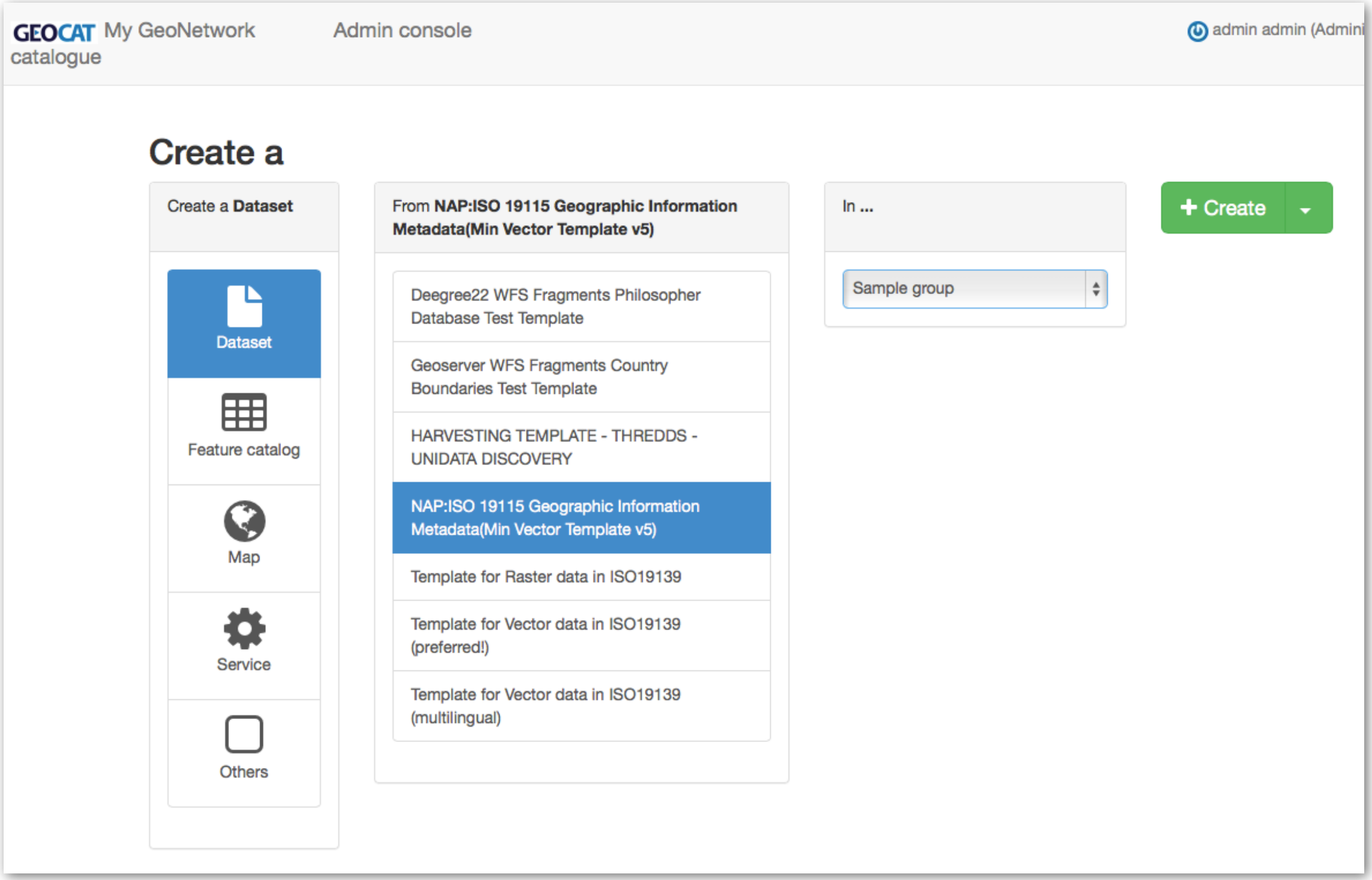
- Versioning

- Permissive licensing to allow incorporation in open source and proprietary software

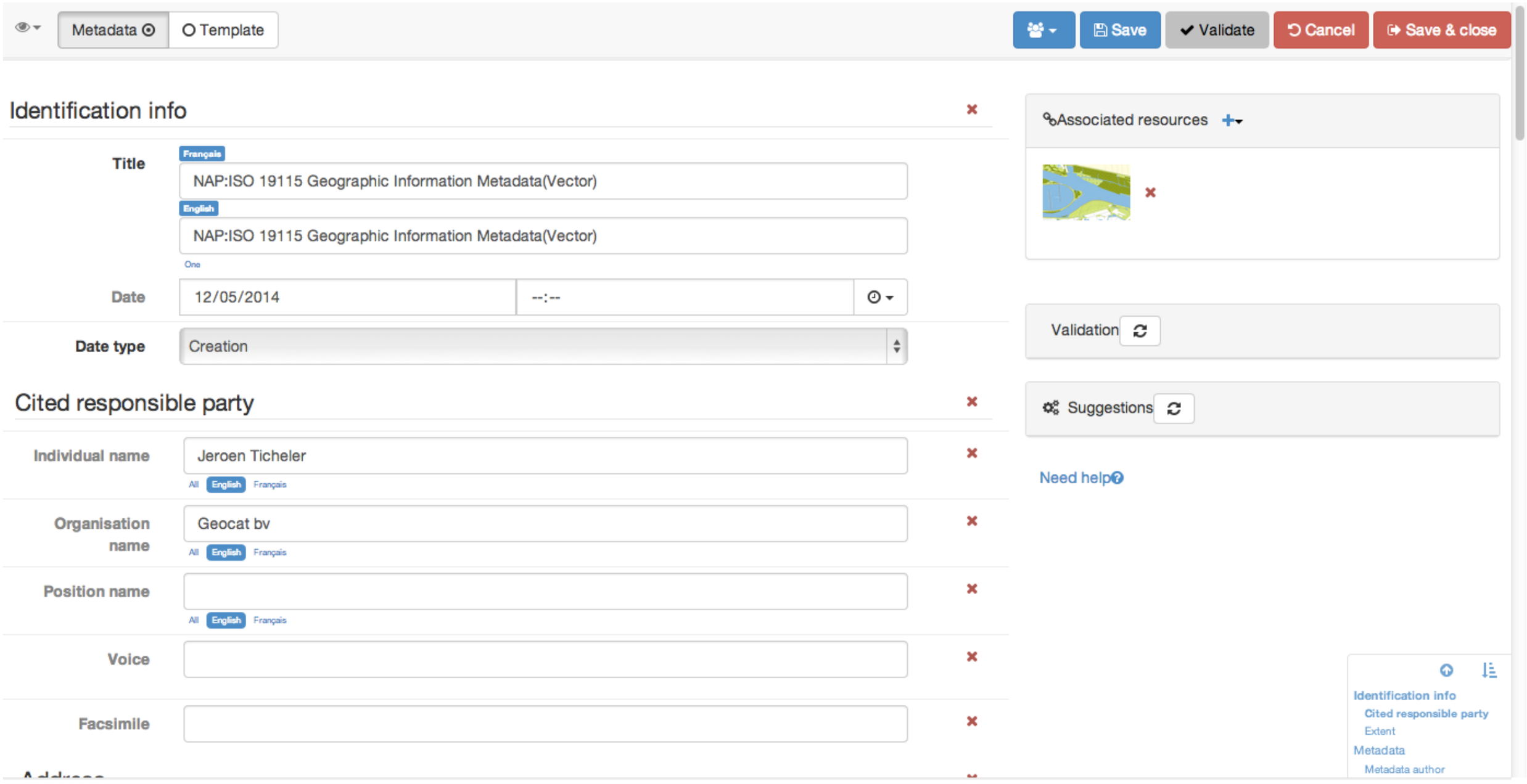
New Editor UI

Based on Angular.js, D3 and Bootstrap

Select a metadata template



Metadata editor



Metadata ⊙ ○ Template

Save | Validate | Cancel | Save & close

Identification info

Title

Français: NAP:ISO 19115 Geographic Information Metadata(Vector)

English: NAP:ISO 19115 Geographic Information Metadata(Vector)

One

Date: 12/05/2014 --:--

Date type: Creation

Cited responsible party

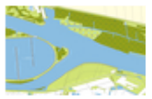
Individual name: Jeroen Ticheler

All | English | Français

Organisation name: Geocat bv

All | English | Français

Associated resources +

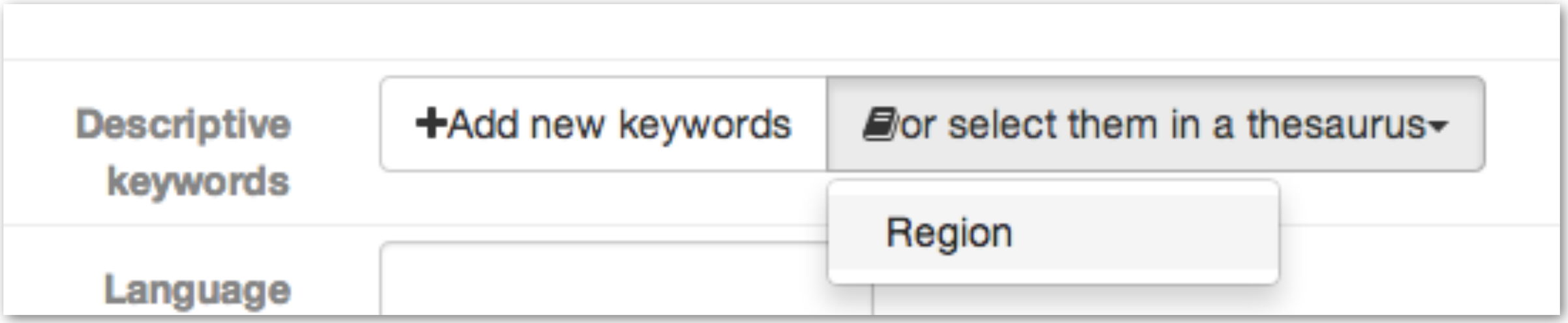


Validation

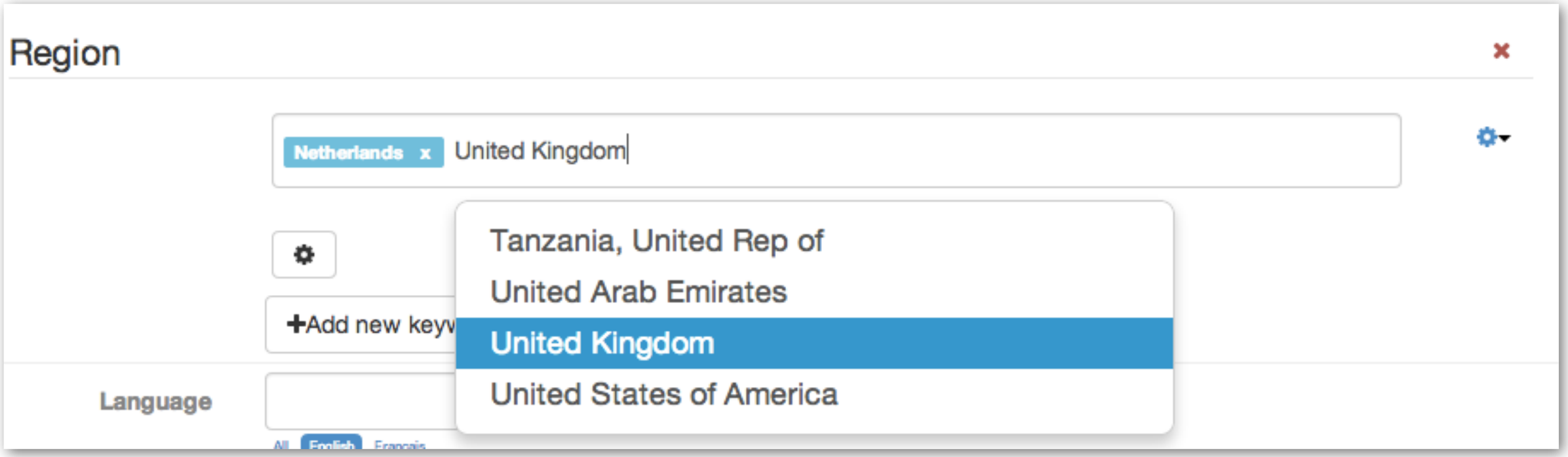
Suggestions

Current record does not contain resource identifier. Compute resource identifier from metadata record identifier.

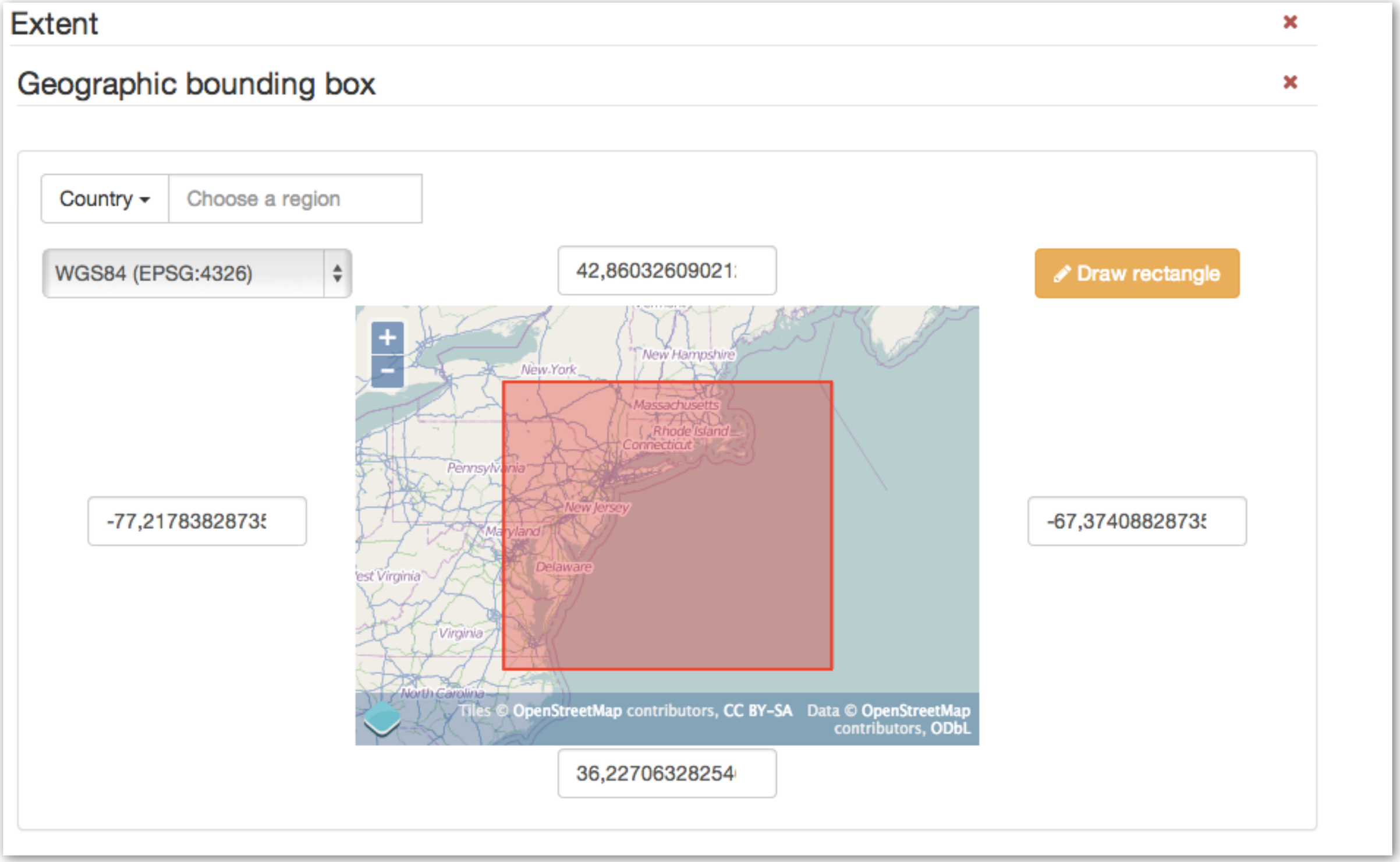
Select or add keywords



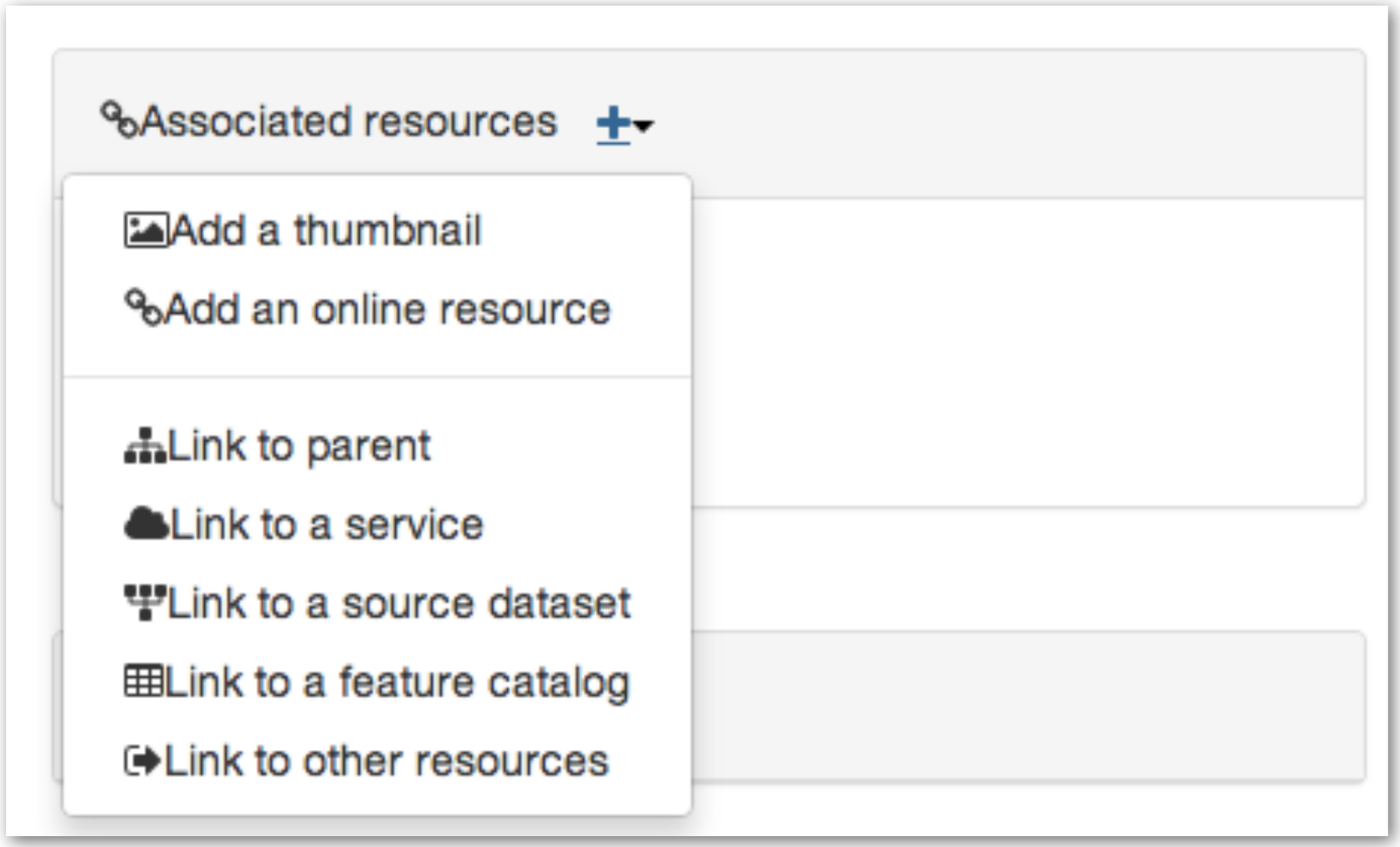
Select regions



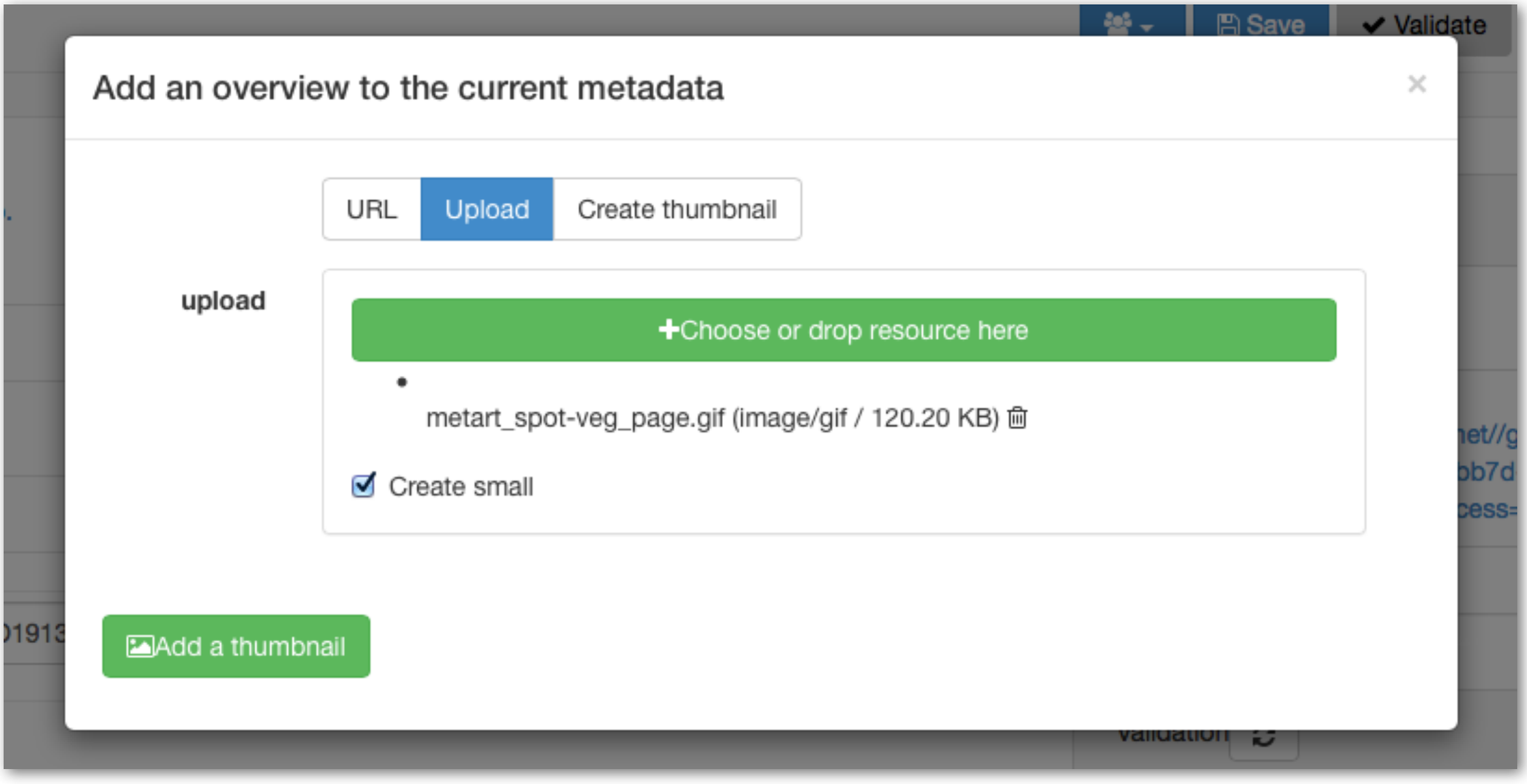
Bounding boxes



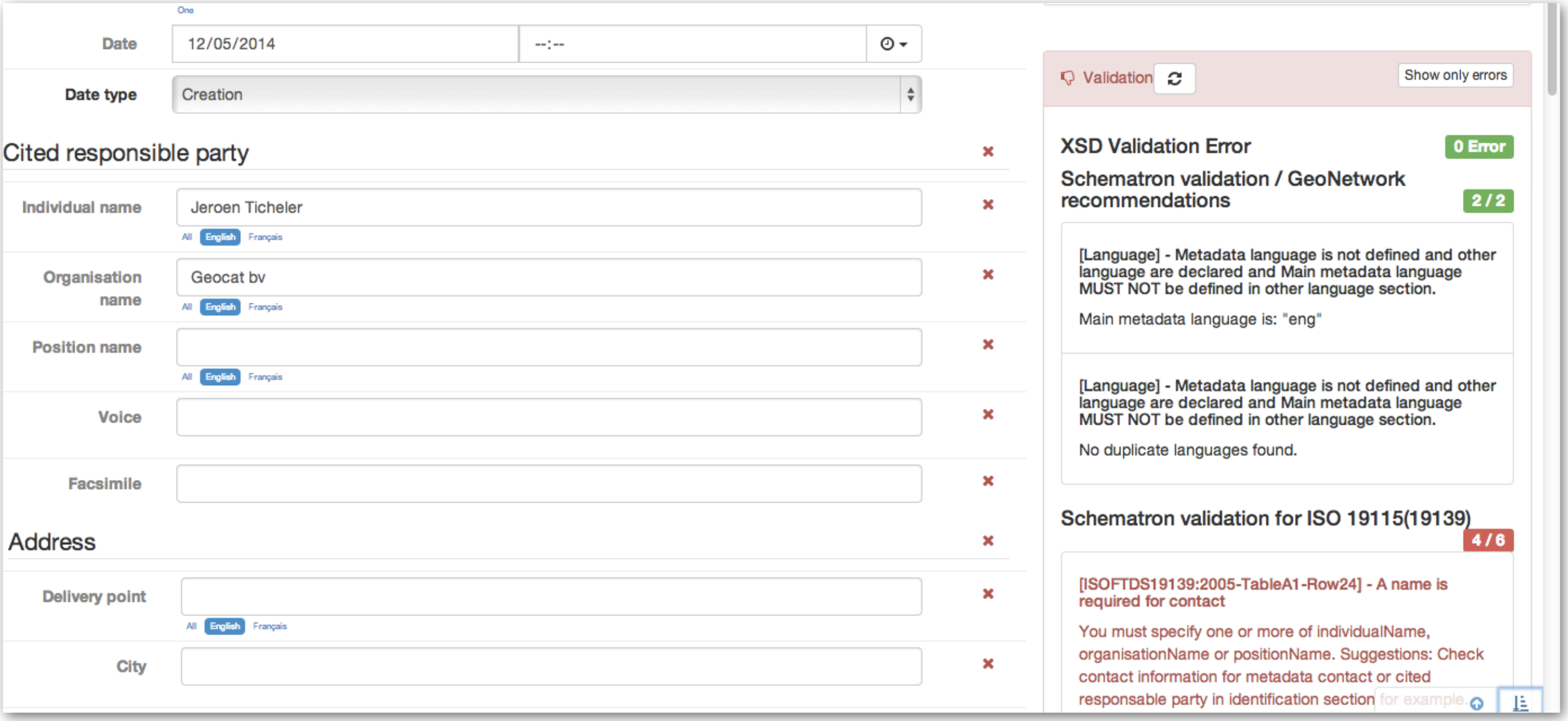
Add associated resources



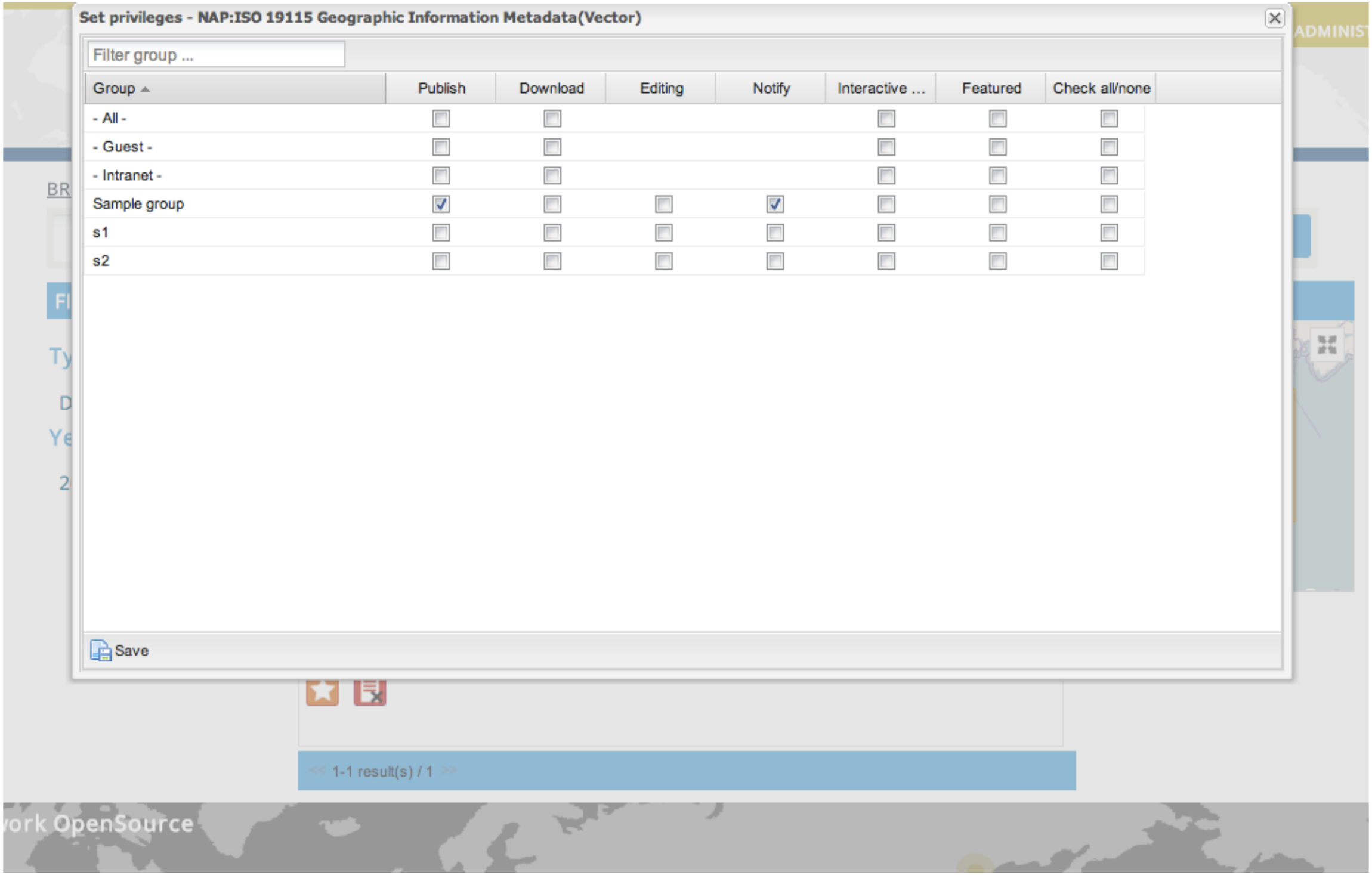
Add a thumbnail



Validation of metadata



Set privileges



If you have ideas or needs,
please join and help

Our goal is for GeoNetwork to be
the best geographic metadata catalog in the world

Questions?

Jeroen Ticheler

GEOCAT
GOVERNMENT GEOGRAPHIC DATA PUBLISHING

http://geocat.net

GeoNetwork Opensource

http://geonetwork-opensource.org

OSGeo
Sponsor · Associate

http://www.osgeo.org