OGC Portal Reference Architecture

Individual Citizen Access

Geospatial Portal

Portal Services

Internet

Distributed Geospatial Data

Portrayal Services

Data Services

Distributed Geospatial Data

Catalog Services

Distributed Geospatial Data

Government Agency Access
OGC Portal Reference Architecture

GeoNetwork
opensource
Different data sources

Somalia - Water Facilities

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AQUASTAT on-line products consists of: databases, country profiles, regional overviews, maps and GIS products, information on water resources and agricultural water use, glossary, institutions, and publications. In addition to being available on-line most AQUASTAT products are also available

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Metadata integration from Embedded Map Viewer
Metadata through Google Earth
History at a Glimpse

- Prototyping by FAO (2000-2001)
- Version 1 by FAO & WFP (released 2003)
- Version 2 by FAO, WFP & UNEP (released 2005)
- Version 2.1 under active development (July 2007)
- Version 3.0 in planning phase (2008)
Users

• UN: FAO, WFP, UNEP, WHO, OCHA, UNHCR

• Other: CGIAR, ESA, GMFS, FGDC, JRC

• Individual projects in Spain, France, Czech, UK, Australia, South Africa, …

• OSGEO Foundation

• ESA HMA, GEOSS related GEOportal project
The Basic Building Blocks

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

• Support for multiple metadata standards
  • ISO 19115:2003
  • FGDC
  • Dublin Core
Metadata

- Better validation of metadata using schema’s
- ISO19139:2007
- Create profiles & templates
- Migration between standards
- Migration between versions
System Administration

ISO 19115 to 19139 conversion

Prior to version 2.1, GeoNetwork managed only the old ISO 19115 metadata format (the one with short names). Starting from version 2.1 you can use the new ISO 19139 format, which is the XML encoding of the ISO 19115:2003 spec. This panel lets you convert your old metadata in ISO 19115 format to the new one.
Catalogue Services/Web 2.0.1

- Developed by: United Nations Food and Agriculture Organization (UN FAO)
- Product Name: GeoNetwork
- License: GNU GPL

GeoNetwork opensource is a standards-based catalog application to manage and publish catalog data on the web. It provides powerful search and sorting capabilities as well as an embedded interaction framework.
Catalogues

- Full OGC Catalog v2.0 support (ISO profile)
- Metadata harvesting & synchronization
Open source development

• Community website
• Documentation center
  • FAQ, Exercises, Manuals
• Software center
• Developer website (WIKI, tracker, SVN)
• Mailing lists for Users & Developers
GeoNetwork opensource Community website

by Admin — last modified 2007-03-30 00:56

GeoNetwork opensource is a standards based, Free and Open Source catalog application to manage spatially referenced resources through the web. It provides powerful metadata editing and search functions as well as an embedded interactive web map viewer. This website contains information related to the use of the software.

Current software version: v2.0.3

The software is released under the GPL license and can be used and modified free of charge.

Software and flyer - UPDATED!! (November 2006)

The GeoNetwork opensource desktop and server 2.0.3 software, a flyer and all the required supporting software and manuals are available on a DVD with a printed Quick Start Guide. The Flyer gives a good overview of the capabilities of GeoNetwork opensource software.

The DVD also includes a wide range of other Free and Open Source Software of interest to the geospatial community (among others GeoServer, MapServer, gvSIG, uDig, QGIS, GRASS, MapBuilder, MapLab, ika-map, PostGIS and NASA World Wind) for Windows, Linux and Mac OS X.
Tool integration

ESRI ArcCatalog

GeoNetwork

Export/import metadata & data

gvSIG
The UNSDI process
UNSDI = United Nations Spatial Data Infrastructure

Conceptualization process started after 2005 UNGIWG meeting

Reported back to UNGIWG in November 2006

Further developed early 2007
UNGIWG & UNSDI

UNSDI Compendium and Strategy Implementation Paper

“Vision, Implementation Strategy and Reference Architecture”

Available online
UNSDI

- Harmonize SDI activities within the UN
  - Metadata profile(s)
  - Data standards, data collection
  - Responsibilities
  - Sharing agreements

- Ensure appropriate linkages with NSDI initiatives

- Work towards a sustainable implementation of a UNSDI