



WellGEO RegRep is a registry and repository (RegRep) specialized for the Geographical Information (GI) domain. It enables seamless, secure management of GI services, datasets and other content.

Its extensible repository manages all types of GI and non-GI content. Its registry manages standardized meta data describing the content within its repository or in external repositories. It is built using open standards and interfaces and integrates well with existing IT infrastructure wherever it is deployed.

BENEFITS

- Provides a unified catalog and repository for any number of diverse GI services, datasets and other content
- Serves as a “system of record” that makes GI resources discoverable and better-governed
- Enables seamless sharing of data within and across enterprise boundaries
- Data is shared with flexible and powerful role-based access control and authorization policies based on OASIS XACML standard
- GI resource discovery is made easy through powerful yet flexible queries that may easily be extended to address deployment specific needs
- Specialized needs of a deployment are often easily met by using the many extension capabilities within the product
- Client application may be developed using the standards-based WellGEO RegRep Software Development Kit (SDK)

FEATURES

- GI Service Catalog based on OASIS ebXML Registry and Repository 4.0 (draft) and OGC WRS 1.0 Basic Package
- Cataloging of GI services, datasets and content using ISO 19115, ISO 19119 and ISO 19139
- Rapid discovery of GI services, datasets and content based on ISO 19115 and ISO 19139 meta data using flexible queries
- Spatial query support using GML 3.2.1
- Full-text indexing and search
- WSDL management based on OASIS ebXML Registry and Repository 4.0 Profile for WSDL (draft)
- XML Schema management based on OASIS ebXML Registry and Repository 4.0 Profile for XML Schema (draft)
- Ontology management based on OASIS ebXML Registry and Repository 4.0 Profile for OWL-Lite (draft)
- Registry interfaces available with REST and SOAP bindings
- Relationship management between managed content
- Pluggable authentication modules allowing leverage of existing identity management and authentication solutions within the enterprise
- Flexible role-based authorization and access control based on OASIS XACML 1.0
- Federation of multiple WellGEO RegRep instances to allow sharing and linking GI information across organizational boundaries
- Seamless federated search across multiple WellGEO RegRep instances even across organizational boundaries
- GUI and API interfaces provide human and programmatic access to WellGEO RegRep services and content

SYSTEM REQUIREMENTS

HARDWARE PLATFORMS

- RAM 2GB (minimum)
- Disk space 16GB (minimum)

SUPPORTED OPERATING SYSTEMS (OS)

The product is tested on the following OS platforms.

- Ubuntu Linux 7.10
- Red Hat Enterprise Linux 4

It may work on other OS platforms as well. Additional OS platforms will be supported based on customer requirements.

JAVA PLATFORM

The product is tested on the following Java Platforms.

- JDK 6

It may work on a more recent version of the JDK as well. Additional Java platforms will be supported based on customer requirements.

SUPPORTED APPLICATION SERVERS

The product is tested on the following application servers.

- Tomcat 5.5

It may work on other application servers as well. Additional servers will be supported based on customer requirements.

SUPPORTED DATABASES

The product is tested on the following databases.

- PostgreSQL 8.3

It may work on other databases as well. Additional database platforms will be supported based on customer requirements.

SUPPORTED WEB BROWSERS

The product is tested on the following web browsers.

- Mozilla Firefox 2.0+

It may work on other browsers as well. Additional web browsers will be supported based on customer requirements.

SUPPORTED STANDARDS

GI STANDARDS

- OGC Web Registry Service (WRS) 1.0.0 Basic Package
- ISO 19115 Geographic Information — Metadata
- ISO 19119 Geographic Information — Services
- ISO 19139 Geographic Information - Metadata - XML Schema Implementation
- OGC GML 3.2.1

OASIS STANDARDS

- ebXML Registry 4.0 (draft)
- XACML 1.0 for Role Based Access Control Policies
- Web Services Security: SOAP Message Security 1.0

W3C STANDARDS

- SOAP 1.1 with Attachments
- WSDL 1.1
- XML Signature 1.0
- XSLT 1.0

JAVA STANDARDS

- JAXR 1.0
- JAX-WS 2.0
- SAAJ 1.3
- JAXB 2.1
- JAXP 1.4.2
- XMLDSIG 1.0
- Servlet 2.5
- Java Persistence API 1.0

Additional database platforms will be supported in future releases.

OTHER STANDARDS

- SQL-92

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