



geomajas

www.geomajas.org

Geomajas 1.6 - 2010

product overview

100% Supported by Geosparc
www.geosparc.com



Key Technology features

1. An integrated client-server architecture
2. Module architecture
3. GWT face for client side
4. Advanced security
5. Integration of business logic and domain logic
6. System configuration using Spring
7. Services for rendering and feature handling
8. Advanced geometry and attribute editing with validation
9. Custom attribute definitions including object relations
10. Advanced querying capabilities
(searching, filters, style, ...)

geomajas 1.6

Supported Browsers

- Internet Explorer (6+)
- Mozilla Firefox (3+)
- Google Chrome
- Apple Safari

Supported Platforms

- JDK 5.0 and higher (JSE and J2EE)
- Tomcat, Jboss, WebLogic, WebSphere, Glassfish, Jetty

Standard

- Inspire compliant
- OGC (WMS, WFS, WFS-T)
- XML
- JSON
- SVG
- VML

Built-in technologies

- GWT
- Dojo
- GeoTools
- JTS
- iText
- Hibernate
- Hibernate Spatial
- Spring framework

Architecture

- Service Oriented Architecture
- Integrated Client Server Architecture
- Model View Controller paradigm
- Modular design
- Extensible through Plug-in mechanism
- Advanced security support (fine grained authorization at data and command level)
- Internationalization
- Server side caching and lazy loading

Map Controls

- Map Navigation (incl. Continuous Zoom, Pan/Zoom to selection, etc.)
- Overview Map
- Map add-ons (scalebar, legend, north arrow, navigation buttons, etc.)

Spatial Editing (Create, Edit, Delete)

- Simple geometries
- Complex geometries (incl. Donuts)
- Custom workflow
- Support for simplification (Douglas-Peucker)

Domain object Geometries

- Point
- Linestring
- LinearRing
- Polygon
- MultiLineString
- MultiPolygon

Geometry Calculations

- Equals
- Disjoint
- Intersect
- Touches
- Crosses
- Within
- Contains

Multi-layered Map Graphics

- Layer State: visible, selectable, editable, labelled
- Layer tree

- Advanced snapping capabilities (closest/nearest point)
- Cartesian rendering and editing of geometries
- Advanced painters
- Layer style encoding/decoding

Data models - ORM:

- Simple attributes (string, integer, float, date, ...)
- One-to-many
- Many-to-one
- Inheritance

Supported LayerModels

- GeoTools DataStore (JDBC, shape, WFS)
- Google Maps
- OpenStreetMap
- WMS
- Hibernate Spatial
- ESRI shape

Filtering (CQL)

Based on:

- Zoom level
- Attributes
- Custom

Geometry Rendering

- All geometries can be rendered/edited
- Point rendering with custom vector symbols
- Custom line stroke, fill pattern (including texture/transparency)

OGC Web Server Suite

- WMS 1.3 command handler
- WFS 1.0 command handler (transactional), WFS 1.1

Advanced raster support

- Transparency
- On-the-fly server-side rasterization

Coordinate Transformations

- Full CRS support
- On-the-fly layer-map projection

Supported Widgets

- MapWidget
- Toolbar
- LayerTree
- Legend
- FeatureListGrid
- FeatureSearch
- FeatureAttributeEditor
- ActivityMonitor
- ScaleSelect
- LocaleSelect
- LoadingScreen

Supported Input Formats

- Google Maps
- OpenStreetMap
- OGC (WMS, WFS, WFS-T)
- Hibernate Spatial (with support for PostGIS, Oracle Spatial, MySQL, MS SQL Server)
- GeoTools (with support for ESRI Shapefile, GML, OGC, PostGIS, Oracle Spatial, ArcSDE, MySQL, GeoMedia, TIGER)

Language Packs

- English
- Dutch
- French
- Spanish
- Portuguese