



J/CarnacGIS

Map Visualization
and Query Components

J/CarnacGIS allows software developers to integrate interactive map views into their own applications. Written entirely in Java, J/CarnacGIS offers a rich graphics environment for building stand-alone or web-enabled clients for spatial data analyses. J/CarnacGIS components interface easily with existing systems to provide enhanced services while preserving investments in data and infrastructure.

A standards-based component approach enables rapid adoption of new technologies with minimal vendor dependencies and low integration cost. Emphasizing high rendering performance, fast and accurate on-the-fly coordinate system transformations, geospatial queries and project persistence, J/CarnacGIS is an ideal choice to develop tailored solutions for scientific and business applications, monitoring, process control, and more.

Unique Advantages

J/CarnacGIS is designed for flexibility and control, offering full control over layer stacking order, addition, deletion, and layer properties such as active layer, visibility, transparency, labeling, and presentation style. Application developers will benefit from pluggable caching strategies sensitive to the complexity of the data and dynamic rendering that is fully interruptible and restartable as data sources are consumed by the layers. Users will not wait on the system during navigation operations such as zooming, panning, and feature selection.

A powerful data source framework allows for input of geospatial data from almost any source including current GIS databases, databases, Corba, and HTTP push or pull. Each layer of data can come from a different source or be generated programmatically.

J/CarnacGIS is built to work in conjunction with other INT component packages, such as J/Contour for contour display of gridded data and J/CarnacPro. Interfaces are provided that allow developers to incorporate their own coordinate systems and projections, plus all standard graphical operations such as shape attribute and geometry editing. Scaled hardcopy with print preview is provided, and CGM output is available as an option.

J/CarnacGIS is available on all platforms that support JDK 1.4 or higher.

FEATURES

- Fully concurrent map rendering and feature querying
- Real-time feature animation support
- Intrinsic feature group management
- Comprehensive and customizable GIS Feature & Properties abstraction
- Fully JavaBean™ compliant default controls
- Specialized GisLayer implementations no longer required; replaced with GisDataSource extensions
- Generalized persistence mechanism
- Fully comprehensive and generalized feature querying and loading from local & remote geospatial GisDataSources
- Fully customizable feature symbology
- Arbitrary CoordinateSystem adaptation and transformation support
- Server-side rendering capability for thin clients
- Applet and Webstart capabilities for thick clients
- Web Feature Server Specification v1.0 compliant

