

# MapInfo® MapXtreme® v4.5

JAVA™ EDITION

MAPXTREME IS A 100% JAVA ENTERPRISE MAPPING SERVER DESIGNED TO ALLOW MAPPING FOR THE INTERNET OR YOUR CORPORATE INTRANET OR EXTRANET. DESIGNED FOR COMPANIES NEEDING BROAD DEPLOYMENT OF MAPPING AND LOCATION-BASED ANALYSIS, MAPXTREME OFFERS APPLICATION DEVELOPERS A HIGHLY VISUAL, INTUITIVE COMPONENT FOR INTEGRATING MAPPING FUNCTIONALITY INTO ANY WEB APPLICATION. MAPXTREME JAVA EDITION COMPLIES WITH J2EE SPECIFICATIONS AND PROVIDES DEVELOPERS WITH UNMATCHED FLEXIBILITY WHEN DEVELOPING AN APPLICATION. THE NEW MAPXTREME JAVA MANAGER PROVIDES A RAPID PROTOTYPING ENVIRONMENT AND SIMPLIFIES THE DEVELOPMENT FOR APPLICATIONS THAT USE A COMBINATION OF MAPINFO PRODUCTS. MAPXTREME ENABLES YOU TO RUN MAPPING APPLICATIONS ON A CENTRALLY MANAGED SERVER, LOWERING HARDWARE AND ADMINISTRATIVE COSTS, WHILE DRASTICALLY IMPROVING APPLICATION PERFORMANCE, RELIABILITY AND SECURITY.

## FEATURES

- ▶ Full-featured mapping server includes robust map viewing, manipulation and thematic mapping functions
- ▶ 100% Java enables cost-effective, multi-platform deployment
- ▶ Multi-threading offers scalability under heavy usage demand
- ▶ Compatibility with J2EE compliant application servers
- ▶ Spatial database access for live data connection and write capabilities
- ▶ Full support for Oracle® Spatial and Oracle® 9i Spatial (8.1.6 and 8.1.7)
- ▶ Rapid prototyping deployment platform
- ▶ Style Editor for customized look and feel
- ▶ Composite renderer for vehicle tracking applications
- ▶ Enhanced labels follow the curves of roads and lines.
- ▶ Full XML Interface—Allows interaction with non-Java clients



## Robust Mapping Tools and Functionality

With robust mapping functions for displaying, selecting and manipulating your data, you have the power to easily share information and insight throughout your enterprise. MapXtreme helps you to better serve customers, make better business decisions as well as manage assets and operations more effectively.

*Web Application Wizard*—A rapid deployment tool that will allow application development without coding. The wizard automatically deploys an application and writes out code that a developer can use to build more complex or customized applications.

*Labeling*—Curved Labels - A significant improvement in labeling allows labels to follow the curves of a road or polygon. Maps are now easier to read and better looking than ever before.

*Search by attributes*—Search data by multiple attributes instead of just one.

*Theme Wizard* — Easily create feature and label Themes based on your actual data. Allows you to control the style, region, line or symbol.

*Map Display & Manipulation*—Pan, Zoom and Re-center maps. Click on map objects and retrieve associated database information.

*Data Binding* — Allows you to use data from non-spatial databases and combine it with MapInfo TAB files to display the information on a map.

*Layer Control*—Manage multiple layers of geographic information, such as data layer colors, zoom layering, visibility and label styles. Plus, quickly zoom in or out to show the boundaries of a given layer.



Graphic illustrates route information, using MapInfo mapping, routing and data products.

**Style Editor**—Create and manage customer and industry specific symbol libraries with full XML style capability.

**Spatial Selections**—Select and work with spatial data at a selected location, or within a given rectangle, radius and polygon.

**GRID Support**—GRIDs enable the storage of attribute information on a per pixel basis, frequently used for continuous shading (elevation, radio signal strength, temperature).

**Export Formats**—Export GIF, GML or JPEG files.

**Free Maps and Data**—A world map, major cities, popular boundaries and more are included at no additional cost.

## 100% Java

*MapXtreme* was written exclusively in Java, offering developers and end users key advantages such as:

**Scalability**—*MapXtreme* uses intelligent Java threading to efficiently serve multiple concurrent users, resulting in low memory consumption per user and scalability as CPUs are added. It can scale to handle heavy usage demand.

**Multi-platform**—*MapXtreme* can run in mixed hardware environments (UNIX®, Microsoft® Windows® NT®, etc.) and is designed to run with Java™ 2 Platform Enterprise Edition (J2EE) compliant servlet containers. It will deliver maps to any web browser on a PC or UNIX workstation without requiring a proprietary plug-in.

**Write Once, Run Anywhere**—*MapXtreme Java* applications can be migrated and re-used regardless of future hardware or platform choices, saving you development time and costs.

## Fast Application Development

*MapXtreme Java Edition* includes a custom JSP tag library to easily create dynamic HTML content for thin clients. Additionally *MapXtreme Java Edition* delivers a collection of JavaBeans™ for easy integration with popular Java™ Development Environments such as NetBeans™ Java™ IDE from Sun™ Microsystems, Borland® JBuilder™ from Inprise/Borland®, and Oracle® JDeveloper from Oracle® Corporation.

## Flexibility

*MapXtreme* supports a variety of web deployments including thin, medium and thick web browser clients.

In thin client deployments, all map generation/rendering is performed on the server, with the client receiving only interactive GIF, GML or JPEG images. On the server, *MapXtreme* runs as a servlet in conjunction with a web server or web server/application server combination.

In medium client deployments, the web browser loads a Java applet and receives GIF, GML and JPEG images. The applet enables a more robust and flexible user interface while minimizing data downloaded from the server.

In thick client deployments, an applet is loaded and the map is streamed to the applet as a series of vectors. Map functionality resides on the client applet. This environment allows the most flexibility and is best suited for higher bandwidth intranets.

## Database Connectivity

*MapXtreme* works with spatial data stored in server-side databases. This allows users, with security rights, to access mission-critical spatial data in enterprise-level database management. Read/Write capabilities to Oracle®8i, Informix® Universal Server, Microsoft® SQL Server™, MapInfo® SpatialWare® for SQL Server allow the user to create new map objects and move and delete map objects. *MapXtreme* is tightly integrated with Oracle8i Spatial and Oracle9i Spatial. Full SQL pass through allows for any arbitrary SQL query to be used for a layer definition. Support for Oracle 8.1.6 Thick & Thick Bequeath JDBC drivers may give a 20% or 40% performance boost, respectively.

## Tested Environments

MapInfo has tested *MapXtreme Java Edition* for the following environments:

- Microsoft® Windows® 2000, Microsoft® Windows® XP, Microsoft® Windows NT® v4.0 (Intel), Sun® Solaris™ 2.7 and 2.8 (Sparc)
- Java™ 1.3.1\_01 and 1.4 Virtual Machines
- TomCat 3.3, TomCat 4.0.1, IBM® WebSphere® 4.0.2, BEA™ WebLogic® 6.1, Sun™ ONE 6, Oracle®9i AS
- Microsoft® Internet Explorer 5.0 and above and Netscape® 5 and above

## System Requirements

*MapXtreme Java Edition* (was created to allow development for mapping applications on any platform that supports a Java Virtual Machine. The following are the minimum necessary to implement a mapping application:

- A servlet container that supports the SUN™ servlet 2.2 specification
- A Java™ 2 Platform compatible Virtual Machine 1.3.1\_01 or higher
- A video card installed on server. On Sun™ Solaris™, either a video card or virtual frame buffer (as required by Java™ 2D for enhanced graphics capabilities).
- 30 MB hard disk space (40MB for installation)
- 250 MB hard disk space for sample map data
- 128MB of RAM

## An Integrated Solution

A global leader in location intelligence software, data and services, MapInfo provides location-based solutions built with our expertise in: mapping visualization; geocoding; routing; data and demographic analysis; and, consulting, training and technical support. With location intelligence, customers can address specific problems, make better decisions, easily profile and analyze their customers or constituents and build and deploy cost effective solutions.

## For More Information

Call 800.327.8627 or visit us at [www.mapinfo.com/mapxtreme](http://www.mapinfo.com/mapxtreme)

*As we look to improve our products, and better serve you, our web site contains the most current information available on this product. Please refer to [www.mapinfo.com/mapxtreme](http://www.mapinfo.com/mapxtreme) for the latest updates and features.*



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