

# MAPINFO® MAPXTREME® JAVA® v4.7

The industry leading location-based development environment for enabling advanced decision and analysis capabilities across an organization



## Summary

### Overview

*Organizations are realizing the benefits of including Location-Based Intelligence in their day-to-day operational and analysis tools. This additional capability has many benefits including:*

- *Helping employees make more informed decisions*
- *Improving customer services*
- *Augmenting facility and asset management*
- *Enhancing planning and organizational responsiveness*

### Benefits

- *Enables application development of map-centric or map-enabled applications for use throughout an organization*
- *100% Java*
- *Complies with both geospatial and IT industry standards ensuring interoperability*
- *Fast application development*
- *Database Connectivity*

MapXtreme Java is a 100% Java mapping server designed to enable the use of location intelligence over the Internet or through your organization intranet or extranet. Designed for organizations seeking broad deployment of mapping and location-based analysis, MapXtreme Java offers application developers a highly visual, intuitive component for integrating mapping functionality into any web application. MapXtreme Java complies with J2EE specifications and provides developers with unmatched flexibility. The MapXtreme Java Manager provides a rapid prototyping environment and simplifies development of applications requiring a combination of capabilities such as geocoding, routing and visualization. MapXtreme Java enables you to run mapping applications on a centrally-managed server lowering hardware and administrative costs while drastically improving application performance, reliability and security.

### Robust Mapping Tools and Functionality

With robust mapping functions for displaying, selecting and manipulating data, you have the ability to create powerful applications for use throughout your organization. These applications allow for the easy sharing of information and insight so that:

- Better business decisions can be made
- Assets can be more effectively managed
- Customers can be serviced more quickly and accurately
- Citizens/customers can access important information

**Web Application Wizard**— A rapid deployment tool that enables 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 advance in labeling, allows labels to follow the curves of a road or polygon. Now, maps can be easier to read and more visually appealing.

**Search by Attributes**— Search your data using multiple attributes – not just one.

**Theme Wizard** — Easily create feature and label themes based on your actual data. For example, use your logo to indicate store/office locations. You 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**— Enables you to use data from non-spatial databases and combine it with MapInfo TAB files to display the information on a map. For example, plot revenue based on location to visually identify areas of high sales volume.

**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 see the boundaries of a given layer.

**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 or polygon.

**GRID Support**— GRIDs enable the storage of attribute information on a per pixel basis and can be used for continuous shading for items such as elevation, radio signal strength or temperature.

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

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



For more information:

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## 100% Java

MapXtreme Java is written exclusively in Java thus offering both developers and end users key advantages such as:

**Scalability** — MapXtreme Java can scale to handle heavy usage demand. MapXtreme does this by using intelligent Java threading to efficiently serve multiple concurrent users. This results in low memory consumption per user and scalability as CPUs are added.

**Multi-Platform** — MapXtreme Java can run in mixed hardware (UNIX, Windows, etc.) environments and is designed to run with J2EE compliant servlet containers. It delivers 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 thus saving development time and cost.

## Fast Application Development

MapXtreme Java ships with a set of visual and non-visual JavaBeans™ that speed application development because they can be used with visual Internet Development Environments (IDEs) such as Borland® JBuilder™, Oracle® JDeveloper, or Sun® ONE Studio. Developers can use the standard drag and drop and set properties mechanism to add objects to their applications.

## Flexibility

MapXtreme Java 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 only receiving interactive GIF, SVG or JPEG images. On the server, MapXtreme Java 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 Java works with spatial data stored in server-side databases. This allows users with the proper security rights to access data. Read/Write capabilities to Oracle® 9i & 10g, Informix® Universal Server, Microsoft® SQL Server™, and MapInfo® SpatialWare® for SQL Server allow the user to create, move and delete map objects. MapXtreme Java is tightly integrated with Oracle 8i, 9i, and 10g Spatial. Full SQL pass through allows for any arbitrary SQL query to be used for a layer definition. Support for the Oracle Thick & Thin Bequeath JDBC drivers may give a 20% or 40% performance boost, respectively.

## Tested Environments

### Operating Systems:

- Solaris 8 & 9
- HP-UX 11
- Red Hat Linux Advanced Server 9.0
- Windows 2000 Server Edition
- Windows Server 2003 Enterprise Edition

### Application Servers:

- Tomcat 4.1.18
- Weblogic 7
- WebSphere 5.1
- Oracle 10g

### Databases:

- Oracle 8i Spatial (8.1.7)
- Oracle 9i2 Spatial
- Oracle 9i2 Locator
- Oracle 10g Spatial
- SQL Server 2000 with SpatialWare 4.6
- Informix 9.3 with SpatialWare 4.5

## System Requirements

MapXtreme Java has been created to allow development of 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 2.3 specification
- A Java 2 Platform compatible Virtual Machine 1.4.1\_02 or higher
- A video card installed on the server. On Sun Solaris, either a video card or virtual frame buffer (as required by Java 2D for enhanced graphics capabilities) is required.
- 9 MB (server files only) to 760 MB (full install) hard drive space (40 MB for installation)
- 135 MB hard disk space for sample map data
- 256 MB of RAM