

DATA SHEET

MapXtreme®

DEVELOPERS CAN QUICKLY ADD LOCATION, MAPPING AND ANALYSIS CAPABILITIES INTO .NET WEB-FACING OR INTERNAL APPLICATIONS.



Summary

Organizations are realizing the benefits of including location intelligence as part of 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

- 100% .NET object model
- Enables application development of map-centric or map-enabled applications for use throughout an organization
- Provides a single environment for deployment of applications to desktop or the web
- Complies with both geospatial and IT industry standards ensuring interoperability
- Includes the addition of many new features and functions

OVERVIEW

MapXtreme® is an ideal development tool for creating map-centric and map-enabled applications for deployment to an organization. Leading organizations in the public and private sectors use mapping and location-based decision and analysis support systems to make better strategic decisions. These systems help decide where to market and sell, manage and protect physical assets, as well as how to transport products more efficiently. With applications developed in MapXtreme, your organization can visualize and analyze data to discover new relationships and trends not apparent using traditional methods such as spreadsheets and reports. MapXtreme helps you meet the needs and expectations of your organization—both today and tomorrow.

MapXtreme enables you to create custom mapping applications and map-enabled applications for deployment in both Microsoft® Windows® desktop and web environments.

MapXtreme SDK

Designed for Microsoft Windows programmers who are familiar with the Microsoft .NET development environment, the MapXtreme SDK enables you to develop applications and solutions that incorporate location within your existing systems and infrastructure. It provides you with the ability to develop desktop or web solutions for smart-client, client server, intranet/extranet or mixed environments.

The MapXtreme object model is 100% .NET so developers experience a tight integration with Microsoft Visual Studio® with the most usable .NET spatial SDK available.

Deployment

The MapXtreme desktop and web development options include numerous map application templates that automatically configure and load the mapping environment for the deployment type chosen. MapXtreme provides full support for Microsoft.NET languages such as VisualBasic.Net and C#, and facilitates the rapid development of web applications for all web deployable .NET languages, such as ASP.NET.

Features and Functions

Single Offering

- Single SDK product for the development of both web and desktop applications
- Efficient sharing and re-use of code and knowledge between deployment types
- Common and consistent desktop and web development experience

Ease-of-use

- Full integration with Visual Studio.NET development environment
- Drag-and-drop functionality to facilitate application development
- Tile caching with the tile handler's familiar and easy-to-use Google-like API

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- Pre-defined map templates and sample applications to facilitate rapid application development
- Flexibility to develop applications using the .NET language of your choice making efficient use of the IT skills within your organization
- Localization kit allows applications to be developed in multiple languages

Interoperability

- Support for IT standards including Microsoft .NET, ADO.NET and SQL-3
- Support for geospatial standards including Open Geospatial Consortium protocols (WMS and WFS)
- Access to data "where it lives" within your organization using standard data access protocols including ADO.NET, ODBC, Oracle® Spatial and SQL Server® 2008
- Incorporation of location capabilities such as geocoding and routing within your application
- New extensible architecture enables you to write your own data provider, extending data access to virtually any source

Feature Rich

- Superior data access engine with improved functionality and performance through the use of flexible cursors, a source-agnostic approach to data and the use of industry standard query languages
- OGC WMS, OGC WFS and client capabilities
- Built-in extensible user interface toolbars and dialogue facilities for rapid development

- Additional functionality through improved granularity (i.e., improve the clarity of maps by separating elements, attribute data and analysis results for better display placement and draw order control)
- Enhanced flexibility of display options including curved labeling, improved symbology and fill patterns
- New grid capabilities allow you to create continuous grids using a writable grid handler and new IDW and TIN interpolators
- New API and Dialog additions allow modifications to inflection points for continuous grids
- Linear referencing and Dynamic Segmentation capabilities

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NEW KEY FEATURES

- Grid Analysis
- Linear Referencing and Dynamic Segmentation
- Z and M Values
- Support for SQL Server 2008 Spatial
- Support for Oracle 11G
- Improved Performance of Shapefiles
- Extensible Data Provider
- Extendable Workspace Manager
- Localization Kit
- Tile Handler API
- New Projections

SPECIFICATIONS

Data Specifications

Supported Environments

MapXtreme supports a wide variety of spatial and non-spatial databases and file formats. Formats that are not natively supported by MapXtreme may be added into the extensible data provider architecture.

Databases

- Microsoft SQL Server 2008 and 2005
- Oracle® 11g and 10g
- Microsoft Access 2000 and 97
- SpatialWare for Microsoft SQL Server and IBM Informix

Operating Systems

- Windows 2003, 2008, XP and Vista

Development Frameworks

- Microsoft .NET Framework 3.5, 3.0 and 2.0

- Visual Studio.NET 2008 and 2005
- Visual C# Samples
- VisualBasic.NET Samples