

Features and Benefits

Extend the reach and value of your spatial information using Autodesk MapGuide® Enterprise. Integrate design and spatial data from a variety of sources, develop new applications, and distribute maps and spatial data faster and more easily. Use a developer-friendly authoring environment to create and share spatial information as dynamic web pages or send it to the field as self-contained, portable DWF™ files.

Linux and Microsoft® Windows® platform support, a choice of development tools, flexible viewing options, support for Oracle® and Microsoft® SQL Server, and integration of Open Geospatial Consortium standards make Autodesk MapGuide Enterprise a faster, easier, and more flexible way to integrate, analyze, and distribute crucial spatial information.

Organizations implementing Autodesk MapGuide Enterprise get the full value from their data investment, and reduce the costs of distributing spatial information within or outside their organization.

Developers use Autodesk MapGuide Enterprise to add mapping to existing applications, build innovative new applications or integrate with existing systems using a unified authoring environment that streamlines application development.

These product components provide the following features and benefits:

MapGuide Server

Feature	Description	Benefit
Broad platform support	Runs as a service under Microsoft® Windows Server® using IIS or Apache and as a Daemon under Linux using Apache	More versatility, lower cost of ownership
Server-side application development and delivery	Scripting runs on the server machine and the results of that scripting are sent to the client. Offers a broader feature set than client-side scripting. Can write applications that support both raster and vector viewing with the same code. Functionality is the same, logic the same, code is the same.	Provides a technical environment that is easier and inexpensive to support No need to update client software when applications get updated

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Feature	Description	Benefit
Multi-language support	Support for .NET, JavaScript and PHP through the Web Extensions, with 100% consistency between API calls	Developers can work in their preferred environment with no loss in functionality, and maintain a technically open and flexible environment
MapAgent Service	Accepts requests from clients over standard HTTP or HTTPS protocols. Runs as an CGI/FastCGI to simplify web server configuration	Easy to setup and configure for both secure and non-secure applications
Simultaneous connections	Supports simultaneous connections (parallel or simultaneous queries) to multiple database servers, residing locally or on Unix [®] or Windows systems accessible via the network	Integrates information maintained in multiple departments or locations
Built in access-based security model	Ensures delivery of your data or application to authorized users only	Provides flexible control over information distribution
Scalable	Flexible model allows farms of independent web-servers to intelligently utilize the services of one or more Spatial Application Servers. Servers can be added to provide specific services, such as raster map rendering. The Spatial Application Server is designed to take full advantage of multiprocessor architectures	Allows a site to grow to support large numbers of concurrent users
Web-based administrator	Add and remove servers, configure servers and services, start and stop servers, configure log generation, view log files, and define users and groups	Servers can be remotely administrated from any browser

MapGuide Viewer

Feature	Description	Benefit
Flexible Viewing Options	Users have two map viewing options that provide similar tools: DWF Viewer – a downloadable Active X control that displays vector based maps on Microsoft[®] Windows[®] systems running Internet Explorer AJAX Viewer – delivers raster based maps to almost any browser	Gives users powerful but lightweight viewing of maps, designs, and related data Ensures that any user on any platform can access designs and maps with no need to standardize on one browser
Portability	DWF Viewer supports “disconnected” mode, providing off-line vector based map viewing capabilities that maintains data attributes	Allows spatial data to be taken into the field for viewing or markup
Simple user interface	Viewer interface is easy for non-technical users to learn and use.	Distributing maps and data online to non-technical users saves time, effort, and money
Multiple object selection	Select objects by list, radius, polygon, buffer, and intersection.	Provides flexibility and improves usability

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Property Browser	Displays the properties of a selected object as defined by the map author	Provides the user with immediate access to essential attribute data
Customization	Customize the DWF Viewer for use within websites and third-party applications using the DWF Viewer API; Navigate to a specific page or view, control layer visibility, show and hide the toolbar and context-sensitive menus, and customize viewer behavior	Developers can tailor maps and viewing applications for specific clients needs
Redlining	Users can digitize features or create redline notations on a map when using either viewing option	Extends functionality of workgroups and significantly reduces the effort of building an advanced redlining application
Quality Printing/Plotting through DWF	Easily select paper sizes and preview the map or map view to be printed. Print with multiple scale options that accommodate a variety of final output sizes. Control the elements to print on a page, including plot scale, title, legend, map scale, north arrow, URL, current date and time—even a logomark	Produce high quality maps and presentation materials easily

Autodesk MapGuide Studio (available separately)

Feature	Description	Benefit
Unified authoring environment	Developer friendly authoring environment based on popular web development tools provides - All aspects of collecting and preparing geospatial data - Site Explorer – MDI tabbed window - Build stylized and themed layers - Compile the layers into a map - Define display attributes by scale - Automatic labeling by scale - Web Layout preview without publishing (publish preview) - Customizable popup menu - And much more	Provides flexibility, ease of use, fast prototyping, and rapid application development which negates the need to use different tools for loading data, connecting to databases and web publishing
Tabular Data Management	Customized editors to configure the various types of data that FDO provides access to: Oracle and SQL Server (Autodesk MapGuide Enterprise only), ODBC, ArcSDE and other formats	Simplifies integration of external data sources.
Vector Data Management	Supports loading of SDF, SHP, DWG and pre-styled DWF data.	Streamlines aggregation and publishing of geospatial data.

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Raster Data Management	Supports most raster formats: tif, .ecw, .sid, .bmp, .cal, .jpg, .png, .tga.	Extends the value of your existing map data. Enables you to scan microfilm or paper data sources and rapidly integrate it into applications
WYSIWYG display of authored maps	Easy-to-use interface provides preview of web layout	Provides immediate feedback when authoring
Map stylization tools	Interface to stylize and render map features based on user rules and automatically create thematic maps	Produce attractive and meaningful map displays
Single view to all site information	View all site contents in the Site Explorer. Drag and drop data or resources within the Site Explorer for editing and application setup.	Easily manage your repository. Quickly add references to shared resources for your applications.
Expression builder	Interface allows construction of tabular queries	Easily build powerful query functionality irrespective of data source
One-step web publishing and convenient customizing	Insert a reference to your map within a default web layout and the map is instantly published to the web. Customize the toolbars and menus easily within a graphical environment. Write your own custom commands and add them to the web surround.	Let's you easily iterate the commands appearing in the web layout surround, even after you've written your own custom application. Gives you ultimate flexibility in creating your own powerful server-side commands that communicate between the map and your custom application.
Dual viewer applications	Developers can create a single application that works with both the DWF Viewer and the AJAX Viewer	No need to commit to a single viewing strategy
Interoperability with Autodesk Solutions	Use Autodesk Map 3D Display Manager Elements as Map layers Load DWGs or use existing Autodesk DWF files as map layers Use of FDO as a common data source API	Rapid map creation by leveraging previously authored maps and drawings. Easy and efficient access to enterprise-wide data types with standardized, cross-product (Autodesk Map 3D, Autodesk Civil 3D) interface
Standards Support	Open Geospatial FDO Providers allow usage and configuration of Web Map Services (WMS) and Web Feature Services (WFS)	Utilize existing web services as map layers for your application, or provide and describe new services
Coordinate system support	Supports over 3000 worldwide coordinate systems, as well as non-mapping systems	Provides flexibility and improves data integration
.Net API	Allows user to programmatically load and organize data from any compatible language	Quickly create programs to do repetitive work, speeding map deployment

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