

Features and Benefits

Extend the reach and value of your spatial information using Autodesk MapGuide® Enterprise software. 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 web design-friendly authoring environment to create and share spatial information as dynamic web pages or use the powerful API to develop compelling web based mapping applications.

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 software 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:

Autodesk MapGuide Server

Feature	Description	Benefit
Improved rendering options – NEW!	Allows the use of multiple rendering engines, GD and AGG to render the AJAX based maps	Produce beautiful cartographic map output on the web
Flexible Layout Templates and drag and drop application widgets – NEW!	<p>New Flexible Web Layout technology, allows you to select from a number of templates for creating your MapGuide-based web application.</p> <p>The new Flexible Web Layout include support for</p> <ul style="list-style-type: none">• Overview maps• Improved tools for selection measure• Feature digitizing.	Easily create rich Web 2.0–type mapping applications using a modular system of flexible design templates and application widgets with little to no web development expertise required

AUTODESK MAPGUIDE ENTERPRISE FEATURES AND BENEFITS

Feature	Description	Benefit
More powerful and uniform expression support – NEW!	More powerful expression language and a robust set of functions that work across all FDO data providers.	Easier than ever to create expressions for Filters, Thematics, and Labelling.
Stylize Elevation Data – NEW!	Publish elevation data (DEM or Geotiff formats) from AutoCAD Map 3D 2009 directly into Autodesk MapGuide Enterprise 2009 for use in your web based mapping application	Share geospatial information both 2D as well as elevation based data on the web
Broad platform support	Runs as a service on Microsoft® Windows Server® using IIS or Apache, and as a daemon on Linux using Apache.	More versatility, lower cost of ownership.
Server-side application development and delivery	Scripting runs on the server machine. 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, logic, and code are the same.	Provides a technical environment that is easier and less expensive to support. No need to update client software when applications are updated.
Multilanguage support	Support for .NET, JavaScript®, and PHP through Web Extensions, with 100 percent consistency between API (application programming interface) calls.	Developers can work in their preferred environment with no loss in functionality and maintain a technically open and flexible environment.
Native Web Server integration	Natively integrates with IIS using an ISAPI module and Apache as an Apache module	Provides improved, performance, stability and reliability for your web based application.
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.	Integrate information maintained in multiple departments or locations.
Built-in access-based security model	Helps to ensure delivery of your data or application to authorized users only.	Gain flexible control over information distribution.
Scalability	Pragmatic Load balancing enables multiple servers to share the load of mapguide applications The server is designed to take full advantage of multiprocessor architectures and includes built-in load balancing capabilities.	Allows a site or several load-balanced sites 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, define users and groups, and package and deploy data across servers.	Administer servers remotely from any browser, and move data from development to production servers and across mirrored servers.
Google Earth™ KML Support	Direct support for streaming content to Google Earth client.	Make 2D and 3D spatial information available to a wider audience of users who are familiar with and use Google Earth. Add your spatial intelligence to



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		the Google Earth base map data.
Open Geospatial Consortium (OGC®) Web Services Support	Support for consuming and publishing data as raster and vector using Web Mapping Services (WMS) and Web Feature Services (WFS).	Interoperate with external and disparate systems.

Autodesk MapGuide Studio (available separately)

Feature	Description	Benefit
Flexible Layout Templates and application widgets – NEW!	<p>New Flexible Web Layout technology, allows you to select from a number of templates for creating your MapGuide-based web application.</p> <p>The new Flexible Web Layouts include support for</p> <ul style="list-style-type: none"> • Overview maps • Improved tools for selection measure • Feature digitizing. <p>Autodesk MapGuide Studio 2009 includes complete support for authoring applications with Flexible Web Layouts including the ability to easily switch between templates.</p>	Easily create rich Web 2.0–type mapping applications using a modular system of flexible design templates and drag and drop application widgets with little to no web development expertise required
More powerful and uniform expression builder – NEW!	<p>The unified expression builder tool which is shared with AutoCAD Map 3D 2009 allows users to create expressions using drop down fields names along with built in</p> <ul style="list-style-type: none"> • Math Functions such as log, exp, sin, cos • Text Functions such as Concat, Rtrim, Lower, Translate • Date Functions such as CurrentDate, Extract, MonthsBetween • Geometric Functions such as Areas and Lengths • Conversion Functions such as ToString, ToDouble 	Easier than ever to create expressions for Filters, Thematics, and Labelling irrespective of data source formats
Improved Cartographic Capability- NEW!	<p>Enhancements for defining custom symbols and line styles by adding support for creating custom line styles and improved annotation support directly in Autodesk MapGuide Studio 2009. Import existing AutoCAD Blocks and linestyles for use in your map</p>	Create stunning cartographic maps for use in web mapping applications

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	using Autodesk MapGuide Studio 2009	
Unified authoring environment	<p>With the developer-friendly authoring environment based on popular web development tools, users can</p> <ul style="list-style-type: none"> • Extract, transform, and load data • Use the Site Explorer multiple document interface (MDI) tabbed window • Build stylized and themed layers • Compile layers into a map • Define display styles by scale • Automatically label by scale • Use Web Layout preview without publishing (publish preview) • Customize popup menus 	Gain flexibility, ease of use, fast prototyping, and rapid application development that negate the need to use different tools for loading data, connecting to databases, and publishing to the web.
Data source previews	Preview capability for various types of data that Feature Data Objects (FDO) provides access to: Oracle and SQL Server, ODBC, ArcSDE®, and other formats.	Simplify integration of external data sources.
Vector data management	Supports loading of SDF, SHP, DWG™, and prestyled DWF™ data.	Streamline aggregation and publishing of geospatial data.
Raster data management	Supports most raster formats: BMP, CAL, ECW, JPG, PNG, SID, TGA, and TIF.	Extend the value of existing map data. Scan microfilm or paper data sources and rapidly integrate it into applications.
WYSIWYG (what you see is what you get) display of authored maps	Easy-to-use interface provides preview of web layout.	Get immediate feedback when authoring.
Map stylization tools	Use 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 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.
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.	Easily iterate the commands appearing in the web layout surround, even after you've written your own custom application. Gain 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 Autodesk Design Review and the AJAX Viewer, which needs no plug-in.	No need to commit to a single viewing strategy.
Interoperability with Autodesk solutions	<ul style="list-style-type: none"> • Use AutoCAD® Map 3D Display Manager elements 	Quickly create maps by using previously authored maps and

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	<p>as map layers.</p> <ul style="list-style-type: none"> • Load DWG files or use existing DWF files as map layers. • Use FDO as a common data source API. • Use common API shared with AutoCAD Map 3D. 	<p>drawings.</p> <p>Gain easy and efficient access to enterprise-wide data types with standardized, cross-product (AutoCAD Map 3D, AutoCAD® Civil 3D®) interface.</p>
Standards support	Open Geospatial FDO (Feature Data Object) Providers allow usage and configuration of Web Map Services (WMS) and Web Feature Services (WFS).	Use existing web services as map layers for your application, or provide and describe new services.
Coordinate system support	Supports more than 3,000 worldwide coordinate systems, as well as nonmapping systems.	Gain flexibility and improved data integration.
.NET API	Programmatically load and organize data from any compatible language.	Quickly create programs to do repetitive work, speeding map deployment.

Autodesk MapGuide Viewer

Feature	Description	Benefit
Flexible viewing options	<p>Users have two map viewing options that provide similar tools:</p> <ul style="list-style-type: none"> • Autodesk Design Review, a downloadable ActiveX® control that displays vector-based maps on Microsoft® Windows® systems running Internet Explorer® or Firefox® browser. • AJAX Viewer: delivers raster-based maps to almost any browser with no plug-in requirements. <p>The new flexible layout options inherently use Cascading Style sheets, Open Layers and AJAX technology</p>	<p>Give users powerful but lightweight viewing of maps, designs, and related data.</p> <p>Help to ensure that any user on any platform can access designs and maps with no need to standardize on one browser.</p>
Portability	Autodesk DWF Viewer supports “disconnected” mode, providing off-line vector-based map viewing capabilities that maintain data attributes.	Take spatial data into the field for viewing or markup.
Simple user interface	Autodesk DWF Viewer interface is easy for nontechnical users to learn and use.	Save time, effort, and money by distributing maps and data to nontechnical users online.
Multiple object selection	Select objects by list, radius, polygon, buffer, or intersection.	Gain flexibility and improve usability.
Property browser	Displays the properties of a selected object as defined by the map author.	Gain immediate access to essential attribute data.
Customization	Customize Autodesk Design Review 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.

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Redlining	Users can digitize features or create redline notations on a map when using either viewing option.	Extend functionality of workgroups and significantly reduce the effort of building an advanced redlining application.

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