

Features and Benefits

Extend the reach and value of your spatial information using Autodesk MapGuide® Enterprise 2010 software. Access 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 (application programming interface) to develop compelling web-based mapping applications.

Introduction

Linux® and 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 2010 software a faster, easier, and more flexible way to access, analyze, and distribute crucial spatial and design 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.

What's new for 2010

Performance improvements: Autodesk MapGuide Enterprise 2010 includes several performance improvements such as better Oracle database connectivity, faster loading of the flexible web layouts framework, quicker selection processing, multiple raster file connections, as well as improved stability.

Raster reprojection: Autodesk MapGuide Enterprise 2010 incorporates on-the-fly reprojection of raster content from the source coordinate system to the map coordinate system.

Improved legend: Autodesk MapGuide Enterprise 2010 enables users to determine the geometry symbol preview icons displayed in the legend.

Other improvements: Error reporting has been improved, as has resource repository management.

Deprecation of the DWF Viewer: The DWF Viewer functionality is available in Autodesk MapGuide Enterprise 2010, but it is no longer supported. In order for DWF Viewer to work in Autodesk MapGuide Enterprise 2010, Autodesk® Design Review 2009 must be installed on the client system. Future versions of Autodesk MapGuide Enterprise will not include support for the DWF Viewer. Autodesk MapGuide Enterprise will continue to support the DWF format as a part of a workflow, with the ability to plot a map to a DWF file format, which enables users to use Autodesk Design Review for stand-alone, offline viewing of the DWF file. Please consult the documentation for how to acquire the Autodesk Design Review 2010 version.

Autodesk MapGuide Studio now a free download: Autodesk MapGuide Studio 2010 is available as a free download from the [Autodesk Subscription Center](#) for Autodesk MapGuide Enterprise customers. The Autodesk MapGuide Studio 2010 software is also available on the Autodesk MapGuide Enterprise 2010 DVD. Customers now have easy access to the Autodesk MapGuide Enterprise authoring tool without additional licensing cost.

New pricing option: Autodesk MapGuide Enterprise 2010 is available as a Personal Edition commercial subscription, per CPU (or 2 Cores), and a new Deployment Edition Commercial subscription, per CPU (8 Cores).

Developments from the OSGEO community: The OpenLayers JavaScripting library can use MapGuide Open Source and Autodesk MapGuide Enterprise as a map data source, enabling users a client side scripting toolkit to create richer client side interactions such as

- Client side redlining tools
- Use of multiple map data sources
- Markers and pop-up windows

Autodesk MapGuide Enterprise

Feature	Description	Benefit
Improved rendering options	Use multiple rendering engines, GD, and AGG to render the AJAX-based maps.	Produce beautiful cartographic map output on the web.
Powerful and uniform expression support	More powerful expression language and a robust set of functions work across all feature data object (FDO) data providers.	Easily create expressions for Filters, Thematics, and Labeling.
Stylize Elevation Data	Publish elevation data (DEM or Geotiff formats) from AutoCAD® Map 3D 2010 directly into Autodesk MapGuide Enterprise 2010 for use in your web-based mapping application.	Share geospatial information, both 2D and elevation-based data, on the web.
Broad platform support	Run as a service on Microsoft Windows Server® using IIS or Apache, and as a daemon on Linux using Apache.	Get more versatility, and lower cost of ownership.
Improved Cartographic Capability	Use advanced cartographic symbolization rules to render layers in a map.	Create stunning cartographic maps for use in web mapping applications.
Server-side application development and delivery	Enjoy a broader feature set than client-side scripting. Scripting runs on the server machine, and results are sent to the client. Write applications that support both raster and vector viewing with the same code.	Provides a technical environment that is easier and less expensive to support. No need to update client software when applications are updated.

AUTODESK MAPGUIDE ENTERPRISE FEATURES AND BENEFITS

Feature	Description	Benefit
	Functionality, logic, and code are the same.	
Multilanguage support	Support .NET, JavaScript®, and PHP through Web Extensions, with 100 percent consistency between API 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 integrate 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	Support 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	Help 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.	A site or several load-balanced sites can 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	Get 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 the Google Earth base map data.
Open Geospatial Consortium (OGC®) Web Services Support	Get 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.
Powerful Viewing	The AJAX Viewer delivers raster-based maps to almost any browser without the need for any plug-in. The Flexible Web Layout Templates inherently use the AJAX viewer along with cascading style sheets and Open Layers to display tiled and nontiled maps.	Access designs and maps without requiring a specific browser.
Portability	Plot maps to a DWF™ format, which can be accessed using Autodesk® Design Review in an "offline" mode. This provides offline vector-based map viewing capabilities that maintain data attributes.	Use spatial data in the field for viewing or markup.

Autodesk MapGuide Studio

Feature	Description	Benefit
Flexible Layout Templates and application widgets	<p>Flexible Web Layout technology allows you to select from a number of templates for creating your MapGuide-based web application. Flexible Web Layouts include support for</p> <ul style="list-style-type: none"> • Overview maps • Improved tools for selection measure <p>Autodesk MapGuide Studio 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	<p>The unified expression builder tool that is shared with AutoCAD Map 3D 2010 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 	Easily create expressions for Filters, Thematics, and Labeling irrespective of data source formats.
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 pop-up 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 FDOs provide access to: Oracle and SQL Server, ODBC, ArcSDE®, and other formats.	Simplify integration of external data sources.

AUTODESK MAPGUIDE ENTERPRISE FEATURES AND BENEFITS

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Vector data management	Load SDF, SHP, DWG™, and prestyled DWF data.	Streamline aggregation and publishing of geospatial data.
Raster data management	Work in 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 as map layers. 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>Quickly create maps by using previously authored maps and 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 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	Access 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.

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