

Autodesk Map 3D 2007

Features and Benefits

This release is the most powerful ever for creating and maintaining precise spatial and design data. Explore how Autodesk Map® 3D 2007 software helps you work faster and more efficiently on the tasks that you do every day.

Feature	Benefit
Data Access Capabilities	<p>Autodesk Map 3D 2007 introduces new data access capabilities that let you unlock spatial data anywhere in your organization with direct simultaneous read and write access to almost every relational database or file format commonly used by GIS Professionals. Access spatial databases such as ESRI ArcSDE® and Oracle®, or use Microsoft SQL Server and MySQL to store spatial data with new spatial enabling functionality without expensive middleware. Directly access and edit ESRI SHP files, access raster imagery and connect to web services such as Web Map Services (WMS) and Web Feature Service (WFS) to take advantage of publicly available data sources. Direct access means no data translations ensuring data accuracy.</p> <p>Databases:</p> <ul style="list-style-type: none">• ESRI ArcSDE• Oracle Spatial• My SQL Relational Database• Microsoft SQL Server Relational Database• ODBC <p>Files:</p> <ul style="list-style-type: none">• ESRI SHP Files• Spatial Data File (SDF)• Raster Files (JPEG, JPG2K, MrSID, TIFF, ECW, DEM, ESRI Grid and DTED) <p>Web Services:</p> <ul style="list-style-type: none">• Web Map Services (WMS)• Web Feature Service (WFS)

	<p>Additionally, you can import and export files in Autodesk Map 3D to exchange data with colleagues and customers. The FME Import-Export engine interoperates with all major GIS software, so you can read, write, and transform industry-standard formats, including, Arc/Info® coverages, and E00 from ESRI® MapInfo® MIF/MID™, MapInfo Tab, MicroStation®.</p> <p>DGN™, Generalized Markup Language (GML 2), Ordnance Survey MasterMap (DNF) (GML2, read only), Vector Product Format (VPF, read only), and Spatial Data Transfer Standard (SDTS, read only). After working with the data, you can maintain it in Autodesk Map 3D or export it to an external file.</p>
<p>Data Management Tools</p>	<p>The new data management tools in Autodesk Map 3D 2007 allow you to easily and effectively manage your spatial data. Use intuitive tools to quickly and easily create users, define schemas or load data models via XML Metadata Interchange (XMI) from industry standard modeling programs. Directly read schemas defined by other applications and copy/map data that reside in one datastore to another. Autodesk Map 3D 2007 is a hub for managing large amounts of spatial data, allowing you to unlock legacy spatial information and streamline your workflow processes.</p>
<p>Spatial Data File (SDF)</p>	<p>Autodesk's new spatial data file is perfect for individuals and small workgroups who want database-like capabilities without the burden of having to manage one. Unlimited file-sizes, fast performance make this new, easy-to-manage file-based data repository a smart choice when an RDBMS doesn't make sense. The spatial data file allows you to structure your data in a way that facilitates a transition to a full-scale RDBMS, such as Oracle, a painless exercise.</p>
<p>Map Creation and Stylization</p>	<p>Create stylized versions of your data to highlight specific features or information. Easily call out details with True Color and dynamic labeling. Build sophisticated thematic maps and blend data using transparency. Save styles and reuse them in any project saving time, streamlining map production. Autodesk Map 3D 2007 allows you to move beyond basic maps to advanced presentations.</p>

<p>Raster Surfaces</p>	<p>Use large scale surface information such as digital elevation models (DEM), digital terrain elevation data (DTED) and ESRI GRID files and analyze this data for elevation, slope, and aspect. Combine this data with aerial photographs and vector data and use draping functionality to create stunning photo realistic 3D renderings.</p>
<p>New Publishing Tools</p>	<p>Distribute your geospatial data and designs in a variety of ways to meet your organizations needs. For instance, create and design your maps within Autodesk Map 3D and publish them to the internet using Autodesk MapGuide Enterprise 2007, or distribute them as individual DWF files, or multisheet DWF Map Books. Autodesk Map 3D helps ensure that customers and teams throughout the organization are using the latest information.</p>
<p>Multi-user Editing</p>	<p>One of the strengths of Autodesk Map 3D 2007 is multi-user editing capabilities, especially multi-user DWG file format editing. Using the software's query functionality, multiple users can access and edit the same sets of files or base maps simultaneously. All functions remain available to all users throughout the process. This efficient and reliable way to share maps and data between users reduces the need for version control and minimizes time wasted waiting for data sets.</p>
<p>Feature Classification</p>	<p>Organize objects in your drawing by the real-world features that they represent using feature classification. When you create an object using feature classification, the object automatically takes its properties and values from its feature class, maintaining consistency and establishing standards in your drawing. By applying a classification to an existing or new object, you can be assured that it meets your standards for both data and display.</p>
<p>Drawing Cleanup</p>	<p>Autodesk Map 3D 2007 automates the often time-consuming correction of common spatial data errors. Delete duplicates, correct undershoots and dangling objects, and more, to help ease the integration of acquired data into your mapping system.</p>
<p>Built on the New AutoCAD® 2007 Platform</p>	<p>Autodesk Map® 3D 2007 is built on the latest release of AutoCAD® software and is enhanced with a suite of mapping tools. It contains all the features and functionality of</p>

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	AutoCAD 2007, which is automatically installed when you install Autodesk Map 3D 2007, so you know you're working with proven, reliable, industry-leading software.
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