

What is New in Autodesk 2008?

Revit Architecture 2008

Revit® Architecture software—Building information modeling that works the way you think

Revit® Architecture software works the way you think. The innovative building design and documentation

system helps you work naturally, design freely, and deliver efficiently. Purpose-built for building information modeling

(BIM), Revit Architecture mirrors the real world of buildings, so you work holistically, rather than with isolated elements such as floor plans, sections, and elevations. And with parametric change technology any change you make, anytime, anywhere, is automatically coordinated everywhere in your project—model views, drawing sheets, schedules, sections, and plans—you name it. Design and documentation stay coordinated, consistent, and complete.

AutoCAD® Revit Architecture Suite 2008

The flexible transition to building information modeling

AutoCAD® Revit® Architecture Suite turns unparalleled flexibility to

maximum advantage. Combining the time-tested, industry-leading AutoCAD® software with the immediate benefits of the Revit® Architecture building information modeling (BIM) application, this solution protects your software, training, and design data

investments; speeds creative design work; and enhances coordination of your presentations and documentation. You make the switch to BIM at your own pace.



AutoCAD® Architecture 2008

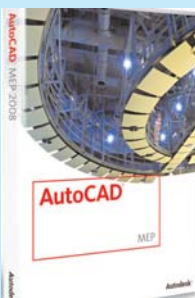
AutoCAD® Architecture software is better for architects.

Creating and sharing accurate drafting and construction documents is much more efficient with the system's familiar environment, flexible implementation options, and easy-to-use architectural drawing and design tools. The industry-leading DWG file format enables coordinated collaboration between engineers and design professionals. Intuitive features inspire more creative work, while integrated rendering brings client presentations to life. AutoCAD Architecture provides smooth collaboration, flexible implementation options, and immediate productivity for architects familiar with AutoCAD® software.



AutoCAD® MEP 2008

AutoCAD® MEP software—Better for MEP engineering, design, and documentation



Increase productivity, accuracy, and coordination—from conceptual design through construction documentation—with AutoCAD® MEP software for mechanical, electrical, and plumbing (MEP) engineers, designers, and drafters. Seamlessly collaborate with architects using AutoCAD® or AutoCAD® Architecture software in an intuitive design environment. Automate production of construction documents using enhanced single-line and double-line system design and layout tools. And minimize coordination errors between mechanical, electrical, and plumbing engineering design teams as well as with architects and structural engineers.

Revit® Structure 2008



Revit® Structure software integrates a multimaterial physical model with an independently editable

analytical model for efficient, accurate, and flexible analysis, design, and documentation. Create models from scratch or import architectural files, whether industry-standard 2D format or from AutoCAD® Architecture, Revit® Architecture, or IFC files. Bidirectional linking to popular structural analysis software enables accurate model updates, while parametric change management technology coordinates those updates throughout your design documentation. Complete your construction documentation using specific and typical details in Revit Structure. Export models in several widely used formats, including DWG™, DXF™, DWF™, and IFC.

AutoCAD® Revit® Structure Suite 2008

AutoCAD® Revit® Structure Suite combines industry-leading AutoCAD® software with the immediate benefits of the Revit® Structure building information modeling (BIM) application. This solution protects your software, training, and design data investments, while accelerating layout,

documentation, analysis, and design. Integrating a multimaterial physical model with an independently editable analytical model for analysis and design, the system also offers interoperability with AutoCAD, AutoCAD®

Architecture, and Revit® Architecture software, as well as support for many industry-standard data formats. Parametric change management enables reliable global updates, and you can move to BIM at your own pace.

What is Sustainable Design?



The concept of sustainable design has come to the forefront in the last 20 years. It is a concept that recognizes that human civilization is an integral part of the natural world and that nature must be preserved and perpetuated if the human community itself is to survive. Sustainable design articulates this idea through developments that promote the principles of conservation and encourage the application of those principles in our daily lives. More simply, it's how to meet current needs (building, product, infrastructure) without compromising the ability of future generations to meet their own needs. When you put "sustainable" and "design" together, you get an approach to the creative process where resources are used wisely and preserved for posterity. It's a way of thinking, a mindset that solves problems and addresses opportunities by balancing current and future needs.

What's Technology's Role?

The role of technology is central to sustainable design. To be cost effective, sustainable design relies on the creation of an accurate 3D computer model of the design, used for a variety of purposes:

- a) Rapid prototyping, to get energy-efficient designs to market quickly
- b) Simulating energy usage, permitting long-term calculations of energy consumption and cost.
- c) Ease of modifications to optimize energy use
- d) Sharing of modeling data throughout the supply chain, to permit the specification of the least wasteful materials.



BIM = Revit

Building Information Modeling supports the continuous and immediate availability of project design scope, schedule, and cost information that is high quality, reliable, integrated, and fully coordinated. Some of the many competitive advantages Building Information Modeling offers are:

- Increased speed of delivery (time saved)
- Better coordination (fewer errors)
- Decreased costs (money saved)
- Greater productivity
- Higher-quality work
- New revenue and business opportunities

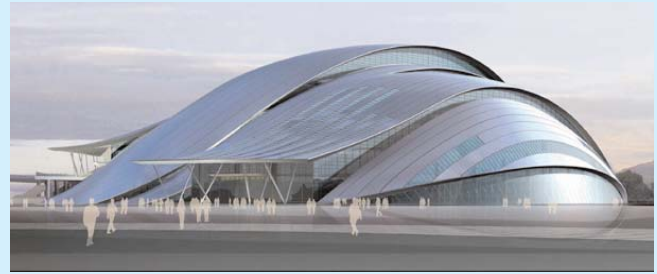
For each of the three major phases in the building lifecycle—design, construction, and Management, Building Information Modeling offers access to the following critical information:

- In the design phase—design, schedule, and budget information
- In the construction phase—quality, schedule, and cost information
- In the management phase—performance, utilization, and financial information

The ability to keep this information up to date and accessible in an integrated digital environment gives architects, engineers, builders, and owners a clear overall vision of their projects, as well as the ability to make better decisions faster—raising the quality and increasing the profitability of projects.



RTKL Associates is converting its offices to Autodesk Revit after experiencing the benefits of **building information modeling** on major projects such as this Washington DC Union Station Garage addition.



The Autodesk Revit platform is Autodesk's purpose-built solution for Building Information Modeling. Applications such as Autodesk Revit Building, Revit Structure, and Revit Systems, all built on the Revit platform, are complete, discipline-specific building design and documentation systems supporting all phases of design and construction documentation. From conceptual studies through the most detailed construction drawings and schedules, applications like Revit help provide immediate competitive advantage, better coordination and quality, and can contribute to higher profitability for architects and the rest of the building team. At the heart of the Revit Model is the Revit parametric change engine, which automatically coordinates changes made anywhere – in model views or drawing sheets, schedules, sections, plans... you name it.

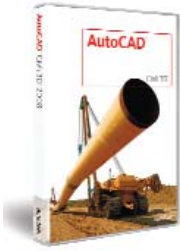
Moving to Building Information Modeling technology requires careful implementation planning, staffing and training. **Digital Drafting Systems** together with Autodesk can help firms that want to investigate and implement this exciting new approach. Contact us at 305-445-6480 or via email sales@ddscad.com for additional information on BIM.

Additional information could be found at:

- www.autodesk.com/bim
- www.autodesk.com/revit
- www.autodesk.com/green

More About Autodesk® 2008...

AutoCAD Civil 3D 2008

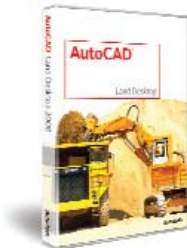


AutoCAD® Civil 3D® 2008 software provides civil engineers, designers, surveyors, and drafters with a comprehensive AutoCAD®-based package for the design, drafting, and management of a wide range of

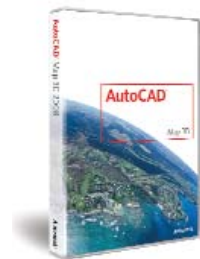
civil engineering project types, including site development and road design. Using an industry-proven, dynamic engineering model, AutoCAD Civil 3D links design and production drafting, greatly reducing the time it takes to implement design changes and evaluate multiple scenarios. A change made in one place instantly updates an entire project, helping you complete projects faster, smarter, and more accurately. All team members work from the same consistent, up-to-date model, so they stay synchronized throughout all project phases.

AutoCAD® Land Desktop 2008

AutoCAD® Land Desktop 2008 software simplifies time-consuming land planning tasks and combines centralized data management to streamline design and analysis collaboration. Built on AutoCAD® 2008 and AutoCAD® Map 3D 2008 software platforms, AutoCAD Land Desktop enables land development professionals to create maps, model terrain, label COGO points, perform alignments, and defines parcels quickly and easily.



AutoCAD® Map 3D 2008



AutoCAD® Map 3D software is the leading engineering GIS platform for creating and managing spatial data. AutoCAD Map 3D bridges CAD and GIS by providing direct access to data, regardless of how it is stored, and by enabling the use of AutoCAD® tools

for maintaining a broad variety of geospatial information.

Top 10 reasons

To change to AutoCAD Architecture or AutoCAD for Architects (formerly known as Architectural Desktop)

- 1) Automatically tag every room in a building. Tags update automatically saving time in maintaining documentations.
- 2) Convert 2D line work to a full described stair in AutoCAD Architecture. You get the flexibility of improved graphic control over your stair's plan and model views. Plus, take advantage of additional stair enhancements such as improved stringer, landing, tread and riser control.
- 3) Robust library of detail components and powerful keynoting tools. Automate the creation of details and have consistent annotation. Even generate keynote legends with just a few clicks.
- 4) Efficiently manage the coordination of your designs and construction documents, maintaining layer, color and line type properties in your section and elevation graphics.
- 5) Benefit from a library of standard architectural wall types that behave like their real-world counterparts. You'll experience complete placement control, automatic updates as you make changes, and improved interaction with other objects enabling you to show interference conditions.
- 6) Slabs carry information about their interior construction giving you the freedom to create slabs with multiple components and materials. With additional graphics enhancements, you get greater control over plan, section and elevation graphics.
- 7) New graphic display and calculation tools help ensure that your schedules are accurate and adhere to company standards. Since schedules are linked to your design, you can update them to reflect any design changes with the click of a button.
- 8) Associated dimensions automatically update as your designs changes.
- 9) With streamlined visualization capabilities, you can bring designs to life and create impressive presentations at any stage of the design process.
- 10) Improvements to the Project Navigator make file-based collaboration easier with mapped-driven support.

Plotter/Printer News

HP Designjet 4500 Series



Enhanced features to enhance your productivity.

Superior output is just the beginning...

The new HP Designjet 4500 series printers are the high capacity, high performance large format color printers that let you attend to your business, not to your printer. Thanks to an expansive input capacity with up to two simultaneous media rolls, greater output capacity, the HP Designjet 4500 Printer series can keep working unattended for long periods. Plus, these printers are fast enough to handle heavy workloads and help you meet tight deadlines with ease! The exceptional 0.1% line accuracy, image quality and brilliant color output of the HP Designjet 4500 Printer series is sure to impress.

Three Models Available:

- 1) HP 4500 Designjet
- 2) HP 4500 PS - Postscript
- 3) HP 4500 MFD - Multifunction Plotter / Copier / Scanner.

Other new HP plotters

Z2100 plotters- For Customers who need to produce high-quality creative prints, prepress proofs, and technical images

Z3100 plotters- For creative professionals in graphic design houses, advertising firms and pre-press/printing businesses.

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The Phaser 8500/8550

- Solid Ink Printer with Network standard
- Maximum paper size is legal (8.5 x 14 inches)
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 - 600 dpi standard, up to 2400 FinePoint™ on the Phaser 8550
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 - Up to 1 GB of memory, optional hard disk has 20GB storage
 - True Adobe Postscript 3™ (137 fonts), PCL5c (81 fonts)
 - Maximum duty cycle up to 85,000 pages per month
 - Considering Color Multifunction?
 - Print, Copy, Scan at up to 24ppm.



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- Plotter Memory Upgrade Packages
- Color Matching Services and Training
- Annual Maintenance Plans

Other DDS Services:

CADD Management Services

- Needs Analysis
- Autodesk Product Deployment or Network Installation.
- Autodesk Products Customization.
- Autodesk Products Installation and Tech Support
- Autodesk Product Pilot Projects
- Autodesk Product Training
- AutoCAD Workshops for CAD Managers
- Outsourcing CAD Manager

Networking & Troubleshooting

- Packages for new DSL service.
- Server upgrade packages
- Workstation memory optimization packages for Autodesk users.
- Simple peripheral installation for drivers, Printers/Plotters, CD writers, DVD's etc...
- Network installation using Autodesk products follow up visit by CAD Technician to review and answer any software question the user might have.
- 2 Hour immediate response time option
- Norton Server Install-Anti-Virus.

V i s u a l i z a t i o n N e w s

3DS Max 9

Autodesk® 3ds Max 9, provides dramatic improvements in display performance and complexity management required by next generation production pipelines along with significant rendering enhancements for architectural customers. From the greatly expanded boundaries of the first-ever 64-bit release of 3ds Max to the newly integrated hair-styling interface, 3ds Max artist have more options, more performance and more flexibility than ever before.

New Feature:**Performance**

DirectX® optimization and the new 64-bit implement let Autodesk 3ds Max 9 take advantages of the latest technology advancements, such as 64-bit workstation, to

address challenges artist face when working with large amounts of data and complex scenes.

Productivity

Autodesk 3ds Max 9 builds upon its core animation and rendering tools, delivering greater speed and precision to meet today's time-sensitive productions deadlines.

Pipeline Efficiencies

Autodesk 3ds Max 9 software delivers improvements designed to increase pipeline efficiency. Easily share files, track work-in-progress assets, and customize production pipelines to accelerate creative workflows.

Rendering Enhancement

In addition to a new version of mental ray® (3.5) software, 3ds Max 9 includes new rendering



technology targeted at visualizing architectural spaces. Customers finally have a simple, fast workflow to produce stunning photo-real imagery. New shaders and presets make it easier and quicker to harness the full power of mental ray rendering engine.

Maya 8.5

Create breathtaking 3D Presentations with Autodesk® Maya® 8.5 software.



new features, along with a host of productivity-enhancing tools, help you streamline your workflow so you can complete complex animation tasks faster.

This latest release delivers breakthrough technology for industry-leading projects. Quickly direct and control cloth in entirely new ways with Maya® Nucleus unified simulations framework. Use the integrated Python scripting language for plug-in development or as an alternative to Maya Embedded language (MEL)-so you can efficiently manipulate, customize, and automate Maya. Enjoy an even wider range of platform options with support for Intel® -base Macintosh® computers. These

Take the Best CADD Training In South Florida

Professional Training - Classes Available in Spanish - Portable Lab



Digital Drafting Systems is an Authorized Autodesk Training Center (ATC).

Digital Drafting Systems Training Facilities are equipped with the latest technology. We offer an on-going training schedule on the most popular CADD software.

We also customize courses and have on-site training with our portable training labs.

Classes are approved for Continuing Education Credits by the AIA, the Florida Board of Architecture, Florida Board of Interior Design and Florida Board of Engineering.

For More Information on our Training Classes call **Digital Drafting Systems** at 305.445.6480 or contact us via E-mail at sales@ddscad.com.

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- 103. AutoCAD Update
- 104. AutoCAD Upgrade

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- 203. Survey Essentials
- 204. Map 3D Essentials
- 205. Raster Design Essentials
- 206. Civil 3D Essentials

III. AEC/Building Services

- 301. Architectural Desktop Essentials
- 302. Architectural Desktop Advanced
- 303. Architectural Desktop Upgrade
- 304. Building Systems
- 305. Revit Essentials
- 306. Revit Advanced

IV. Visualization & Animation

- 401. Discreet 3D Max
- 402. Autodesk 3D Viz
- 403. Maya Training



Most courses are approved by the AIA, Florida Board of Architecture, Florida Board of Interior Design, or Florida Board of Engineers for Continuing Education Credit.



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