ArchiCAD 18 offers a streamlined workflow solution, keeping architects in the creative design flow with as little disruption as possible.

The integration of CineRender, MAXON’s world-class CINEMA 4D rendering engine into ArchiCAD 18, brings high quality, photo-realistic renderings to a much wider range of designers.

ArchiCAD 18’s brand new Revision Management solution is integrated into the entire BIM workflow, providing solutions for 2D, 3D or any kind of hybrid workflows. It also offers a smooth, PDF-based workflow and improved PDF-based data exchange by introducing BIM-related intelligence and data hierarchy into PDF files.

ArchiCAD continues to support OPEN BIM standards and workflows with full BIM Collaboration Format support. BCF information is natively integrated into ArchiCAD BIM projects in the form of Mark-Up entries, providing best-in-class interdisciplinary collaboration workflow and streamlined communication with the CAD managers, structural and MEP engineers.
Join the Creative Flow

From the outset, ArchiCAD was developed specifically to address the architect’s desire for great design without compromising on practical needs. GRAPHISOFT ArchiCAD’s innovative BIM solution helps you win more business while letting you concentrate on your core skill – creating inspiring designs.

BIM

Working with ArchiCAD, you will discover the pleasures and benefits of designing in a 3D architectural environment with extraordinary design freedom. Based on a profound knowledge of the architectural process, ArchiCAD’s Building Information Model simulates the way a real building is constructed. From town planning to intricate details, from functional studies to complex designs, ArchiCAD’s specialized tools are always available and extremely easy-to-use, ensuring that there are no boundaries to your creativity. With ArchiCAD, you create a 3D Building Information Model — all the necessary documentation and images are created automatically. Priority-based junctions and intelligent building materials ensure correct graphical representation of elements and materials in sections (cut fills), surfaces in 3D views, and thermal properties throughout the building energy evaluations. ArchiCAD offers a native BIM design and documentation workflow for Renovation and Refurbishment projects common in developing parts of the world. ArchiCAD’s built-in, word class CINEMA 4D rendering engine and BIMx Hyper-Model publishing capabilities, ensure that all the rendering, exploring, printing and saving processes won’t require extra time and will be derived from the same Building Information Model.

Design

ArchiCAD allows architects to freely explore design ideas without compromising on documentation precision and quality. With ArchiCAD, you can model and shape freely, easily creating the forms you want and change even complex elements in the most appropriate view. ArchiCAD enables you to combine creative freedom with the well-known efficiency of its robust Building Information Model. A comprehensive set of tools supports the creative process within the context of the project. ArchiCAD enhances its direct modeling capabilities in the native BIM environment with its end-to-end BIM workflow using Priority Based Connections and Intelligent Building Materials, and an improved MORPH™ tool. Cloud-integration helps users create and find the custom objects and components they need to make their BIM models complete. GRAPHISOFT continues to innovate in “green” as well, uniquely offering the best workflow for sustainable design, integrated into its BIM authoring tool.

Documentation

With ArchiCAD, you create a 3D Building Information Model — all the necessary documentation and images are created automatically. Priority-based junctions and intelligent building materials ensure correct graphical representation of elements and materials in sections (cut fills), surfaces in 3D views, and thermal properties throughout the building energy evaluations. ArchiCAD offers a native BIM design and documentation workflow for Renovation and Refurbishment projects common in developing parts of the world. ArchiCAD’s built-in, word class CINEMA 4D rendering engine and BIMx Hyper-Model publishing capabilities, ensure that all the rendering, exploring, printing and saving processes won’t require extra time and will be derived from the same Building Information Model.
Join the Creative Flow

ArchiCAD BIM

Design in the 3D Building Information Modeling environment and all the documentation will be generated and kept up-to-date automatically based on model data.

MORPH™ and Shell tools

ArchiCAD presents direct modeling capabilities in the native BIM environment with its Shell tool and improved MORPH tool, allowing element creation with any custom geometry in an intuitive graphical way.

Real Manufacturer Content

More than a thousand real, up-to-date manufacturer specific objects are provided by BIMobject® among the thousands of generic and premium building components found on BIMcomponents.com.
Building Information Modeling (BIM) and OPEN BIM have created unprecedented potential for design collaboration among architects and engineers. With intelligent, model-based workflows between the various trades, coordination errors have been reduced to virtually zero. ArchiCAD offers architects industry-first open design collaboration workflows with leading engineering solutions worldwide.

The true potential of BIM is best realized through a team effort with several contributors collaborating on the same BIM data. ArchiCAD, with its full integration with GRAPHISOFT, BIMcloud®, offers industry-first, real-time BIM collaboration regardless of the size, location and set-up of the collaborating team. The GRAPHISOFT BIM Server – with leading edge Delta Server technology – dramatically decreases network traffic, allowing team members to collaborate on BIM models in real time. The secure Data backup and local project backups make sure that you never lose your data in an emergency. “Solo” mode provides extended flexibility, while the TravelPack™ option lets you take your Teamwork projects anywhere, with the ability to access the BIM Server from any remote computer.

BIM and OPEN BIM bring an unprecedented level of coordination between different views of the 3D model, and among BIM models from various disciplines.

Support for multiple, international IFC standards ensures that ArchiCAD’s IFC solution can be used globally.

Model-based version tracking, for best-in-class coordination workflow with engineers, allows architects to compare IFC model versions and to import only the differences. Thanks to Publisher, IFC models of varying content can be exported with just one click to the different professions (for example, the load-bearing structure to the structural engineer, the entire model to the MEP engineer). Smart DXF/DWG data exchange supports roundtrip conversion with consultants using these formats. The combination of these comprehensive capabilities makes ArchiCAD an extremely efficient coordination tool.

The dynamic nature of design projects requires parallel processes, smooth workflows and tight control. With ArchiCAD, you can achieve all these with the confidence that your documents are synchronized and that the right type of document is at hand to clearly illustrate your thoughts. You maintain total control of the process, while your clients receive the highest quality design. Controlling the workflow of larger teams is one of the most challenging tasks project leaders face on a regular basis. ArchiCAD’s Integrated Revision Management workflow tracks and automatically documents changes to the building model so questions about responsibility won’t be an issue later on. The Revision Management solution is integrated into the entire BIM workflow, providing solutions for 2D, 3D or any kind of hybrid workflows. Industry-first GRAPHISOFT BIM Server technology provides an unmatched collection of workflow management and backup tools for project leaders and CAD/BIM managers.
Teamwork

Teamwork technology allows your team to work simultaneously on various aspects of the same project, while keeping your project safe and all team members updated on project progress.

**OPEN BIM™**

ArchiCAD’s integrated model change management and native IFC property management, full support for BIM Collaboration Format (BCF) and DXF/DWG roundtrip conversion solutions offer a smooth, model-based coordination workflow.

Performance

To dramatically boost performance on large, complex models and further enhance your BIM productivity, ArchiCAD features industry-first background processing support and optimized Scaling of Multiple-core CPUs. Improved Central Graphics Unit Performance makes 3D navigation in OpenGL mode even smoother when working with extra large and complex models.

Both ArchiCAD and the BIM Server provide full 64-bit support on both Windows and Macintosh operating systems.
Workflow

ArchiCAD’s workflow gives you more control over your design and enables you to make changes at any time, while maintaining accuracy and efficiency in documentation. From the central database of the 3D model data, you can extract all the information necessary to complete all plans, sections and elevations, details, bills of quantities, window/door/finish schedules, renderings, animations and 3D documents.

Modeling – Design – Design Evaluation

3D TOOLS
Wall
Door
Window
Column
Beam
Slab
Stair
Roof
Shell
Skylight
Curtain Wall
Morph
Object
Zone
Mesh
Lamps
Wall End
Corner Window

LIVE PROJECT VIEWS
Stories, Sections, Elevations, Interior Elevations, Worksheets, Details, 3D Documents, 3D Views, Schedules, Lists

PERSONALIZED 3D TOOLS AND WORK ENVIRONMENT
Custom GDL Objects, Favorites, Custom Materials, Work Environment

SPECIAL MODELING TOOLS
Solid Element Operations, Connections, Walls/Beams/Columns with Complex Profiles, Walls/ Roofs/Slabs/Shells with Composite Structures, Slanted/Double Slanted Walls, Parametric Objects, Standard Steel Profiles, Magic Wand

2D TOOLS
Line/Polyline
Fill
Arc/Circle
Spline
Hotspot
Text
Label
Dimensions
Figure

PERSONALIZED DRAWING TOOLS
Custom Line Types
Custom Vector Fills
Custom Symbol Fills
Custom Image Fills

Open Design Collaboration – Incorporate ArchiCAD's collaboration capabilities in your workflow. Share 3D models and 2D drawings. Work seamlessly with your structural, MEP and other consultants, visualization artists or fellow architects regardless of the software they use.

Workviews

VIEW FILTERS
Layer Combinations, Scale, Partial Structure Display, Pen Sets, Model View Options, Renovation Filters, Dimensions, Zoom Level, 3D Cut Planes, 3D Marquee, Representation of Cut and Uncut Elements, Sun/Shadow Settings

VIEW TYPES
Plans, Sections, Elevations, Interior Elevations, Worksheets, Details, 3D Views, 3D Documents, Rendered Views, Schedules, Lists

Coordination | Passion | Modeling | Freedom | Communication | Evaluation | Co
Energy Evaluation

In today’s environment, sustainability is an imperative for all building projects. The built-in, improved Energy Evaluation functionality of ArchiCAD 18 supporting multiple thermal blocks allows architects to perform reliable dynamic energy evaluation with standard-compliant technology.

GRAPHISOFT BIMx

With GRAPHISOFT ArchiCAD, GRAPHISOFT BIMx, and its cloud-integrated model sharing service, architects and designers can explore, communicate, and share their project designs like never before.

GRAPHISOFT MEP Modeler

GRAPHISOFT MEP Modeler is for architectural practices and architectural departments of A/E firms to create, edit or import 3D MEP networks and coordinate them with the ArchiCAD Building Information Model.
System Requirements

Operating System:
- Microsoft® Windows® 7, 8 and 8.1 (64 bit version).
- Java 1.7.0 or later (automatically installed if not present).
- Mac® OS X 10.8 Mountain Lion, 10.9 Mavericks.

CPU:
- 64-bit processor with two cores are required.
- Processor with 4-8 (or more) cores are recommended to fully exploit the performance capabilities of ArchiCAD.

RAM:
- 4 GB RAM is required.
- 8 GB or more is recommended for complex models and 16 GB or more is recommended for complex detailed models.

Hard Drive:
- 5 GB free hard disk space required for a full installation of ArchiCAD. Additional 10 GB hard disk space per project required for work with complex models and 3D visualization. On Mac, only case insensitive file-system volumes are supported.

Display:
- Resolution of 1024 x 768 is required. 1440x900 or higher is recommended.

Video card:
- Open GL-compatible graphic card with on-board video memory of 512 MB required, 1024 MB or more is recommended to fully exploit hardware acceleration capabilities.
- You can find a list of recommended video cards at: http://www.graphisoft.com/video_cards

Optional Hardware Peripherals:
- All major plotter brands, printers and digitizers can be used with ArchiCAD.

GRAPHISOFT is celebrating ArchiCAD’s 30th anniversary!
Please visit www.archicad.com to view the most important milestones in ArchiCAD history and feel free to add your own story as well!

For more details, contact any GRAPHISOFT office, or visit: www.graphisoft.com