

OPEN

DESIGN COLLABORATION BETWEEN ARCHITECTS & ENGINEERS

Building Information Modeling has created unprecedented potential for design collaboration between Architects and Engineers. With intelligent, model-based workflows between the different trades, coordination errors can be reduced to virtually zero. ArchiCAD 14 offers architects industry-first open design collaboration workflows with leading engineering solutions worldwide.

Darmstadtium, Wissenschafts- und Kongresszentrum Darmstadt, Germany
Architects: fs-architekten Paul Schröder Architekt BDA and Chalabi architects & partners
Photo: Claus Graubner ©



GRAPHISOFT® ARCHICAD 14

OPEN DESIGN COLLABORATION

ArchiCAD 14 turns IFC technology into full-fledged workflow solutions enabling collaboration with engineers regardless of their discipline or the name and version of the application they prefer working with. These workflow solutions help bridge the different requirements for BIM models between architects and the various engineering disciplines. Built-in change management helps the coordination become a smooth and automatic process. ArchiCAD 14 also moves forward with developments to its revolutionary BIM Server based Teamwork solution, further improving the management of design teams working on shared BIM projects.

BEST-IN-CLASS BIM WORKFLOW

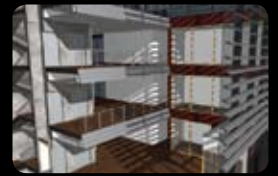
ArchiCAD 14 delivers productivity improvements to the full cycle of the BIM workflow. Enriched details to modeling construction elements, better 3D visualization, enhanced 2D drafting, improved handling of libraries and library parts, and refined user interactions are all included in the impressive list of productivity improvements. The results are faster and more polished design and documentation workflows with improved communication capabilities both with clients and consultants that make ArchiCAD 14 the premier BIM solution for architects worldwide.

14 REASONS FOR ARCHICAD 14



Refined model mapping – Building Element Classification extends ArchiCAD construction element data by adding new properties such as “IFC Element Type,” and “Structural Function” to provide the foundation for model mapping with engineering BIM models.

Shadows in Open GL – ArchiCAD 14 greatly improves in-model visualization with shadow casting in 3D OpenGL views. Live 3D views of the BIM model in addition to being work-views also become a standard basis for communicating the design intent with clients.



Model-based version tracking – For best in class coordination workflow with Engineers, ArchiCAD 14 allows architects to compare IFC model versions and to import only differences, displaying design changes with color codes in the architectural model context.

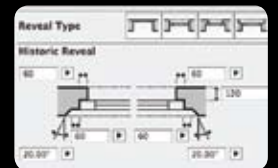


Refined management of Object Libraries – Library consolidation for projects coming from earlier versions of ArchiCAD and an extended set of detailed information about loaded libraries and objects are among the new features introduced with the new management tools.

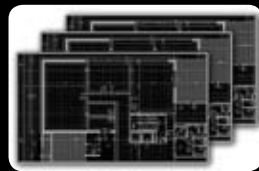


Direct link to Structural and MEP applications – IFC translators optimized for exporting model data to various structural and MEP applications – including Revit Structure and Revit MEP – offer best in class coordination workflow with leading engineering solutions worldwide.

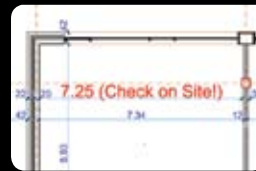
Extended options for Doors & Windows – ArchiCAD 14 offers users increased control over model-based sections and details of doors and windows. An extended set of Reveal and Wall Closure setting options make creation of refined details a fully automatic process.



Streamlined AutoCAD 2010 DWG I/O – Despite increased reliance on model-based workflows, architects still need to coordinate their design with engineers using traditional 2D workflows. ArchiCAD 14 introduces streamlined DWG/DXF 2010 Import-Export.



Dimension text prefix/suffix – Model-based annotation is key to an effective BIM workflow. Custom prefixes & suffixes added to associative dimensions – while keeping their real measured values – can boost documentation productivity by an order of magnitude.



Teamwork “Pack & Go” – Take Teamwork projects anywhere, saving all necessary files and libraries of Teamwork sessions into a transportable data package for further edits without the need for physical access to the BIM Server from any remote computer.

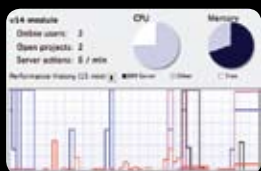
Improved handling of Schedules ArchiCAD 14 introduces standard spreadsheet editing techniques to improve productivity in Schedule and Index windows. Quantity take-offs can now be exported to Excel with graphical information included for WYSIWYG results.



Teamwork “solo” mode – Special single-user mode enables one-click reservation of all elements for early stages of Teamwork projects. “Solo” mode helps solo practitioners utilize the full potential of the powerful BIM Server infrastructure on solo projects, too.



Direct import of site-survey data – Site survey data directly coming from Theodolites can now be imported into ArchiCAD with a single-click. XYZ coordinates automatically convert into an ArchiCAD Mesh element providing an accurate 3D model of the environment.



BIM Server Performance Monitor The BIM Server performance monitor function provides project leaders and CAD/BIM managers with powerful management tools to get all the necessary information for decisions required for an optimal Teamwork project workflow.

Performance optimizations – ArchiCAD 14 offers 15%–500% speed improvements in various operations depending on project size and complexity. GRAPHISOFT BIM Server now takes full advantage of 64-bit computing on the Mac OS X platform as well.



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