JOIN THE CREATIVE FLOW

GRAPHISOFT®
ARCHICAD 18

ArchiCAD 18 offers a streamlined workflow solution, keeping architects in the creative design flow with as little disruption as possible. ArchiCAD 18 delivers innovations making the BIM workflow smoother, including the CINEMA 4D rendering engine developed by MAXON. High-end photo-rendering capabilities previously found only in professional visualization applications are now available right inside the BIM tool.

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ARCHICAD & BIM

World Class Rendering

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 is the only BIM application that provides not only high-end, professional image quality thanks to the Cinema 4D rendering engine, but a very smooth workflow and an excellent user experience as well.

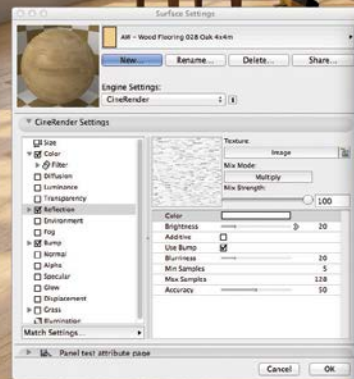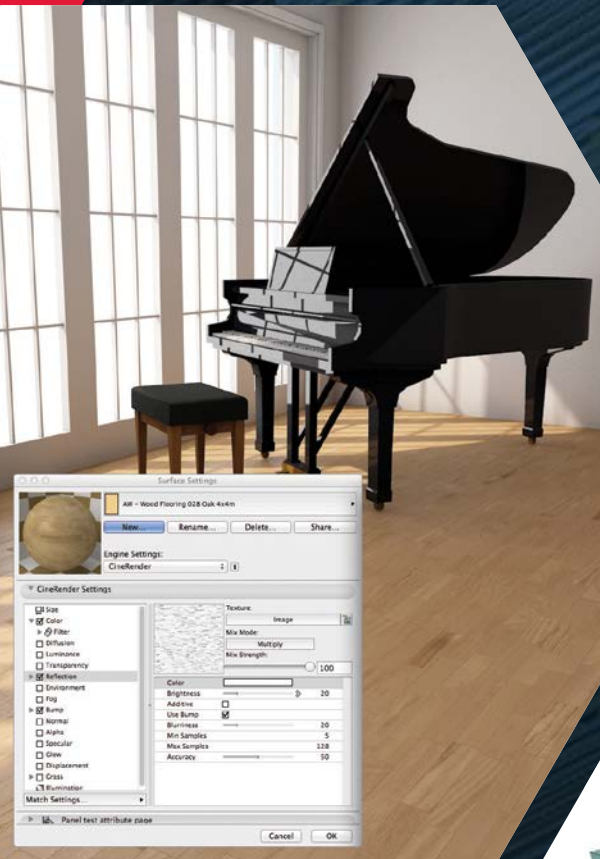One-button "photo-shot" rendering can lead to the same high-quality results with the same ease as with tweaking numerous sliders and parameters, allowing novice users to create professional renderings. Professional users can use all the advanced rendering settings of ArchiCAD, or continue the project visualization in MAXON Cinema 4D.

ArchiCAD 18 provides a wide range of professional surface material catalogs right out of the box. Users with an active subscription license may download additional surface materials free of charge from the BIMcomponents.com portal. The entire surface material set of MAXON's Cinema 4D is also available.

ArchiCAD 18 provides brand new lamp objects enhanced with new light settings: parallel light, area light and window light sources can be applied. The standard, IES Light format can also be assigned to ArchiCAD's lamp objects, ensuring manufacturer-specific photometric distribution for lighting.

ArchiCAD's live rendering preview and background processing support make the rendering workflow a smooth, uninterrupted process.

OPEN BIM

ArchiCAD 18 continues to support OPEN BIM workflows and introduces full BIM Collaboration Format support.
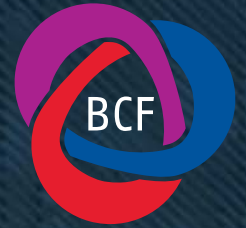
IFC Support

ArchiCAD supports highly iterative coordination with engineers and consultants and delivers several IFC-related improvements including professional scheme-driven data management and data mapping, and high-quality (certified) export processes.
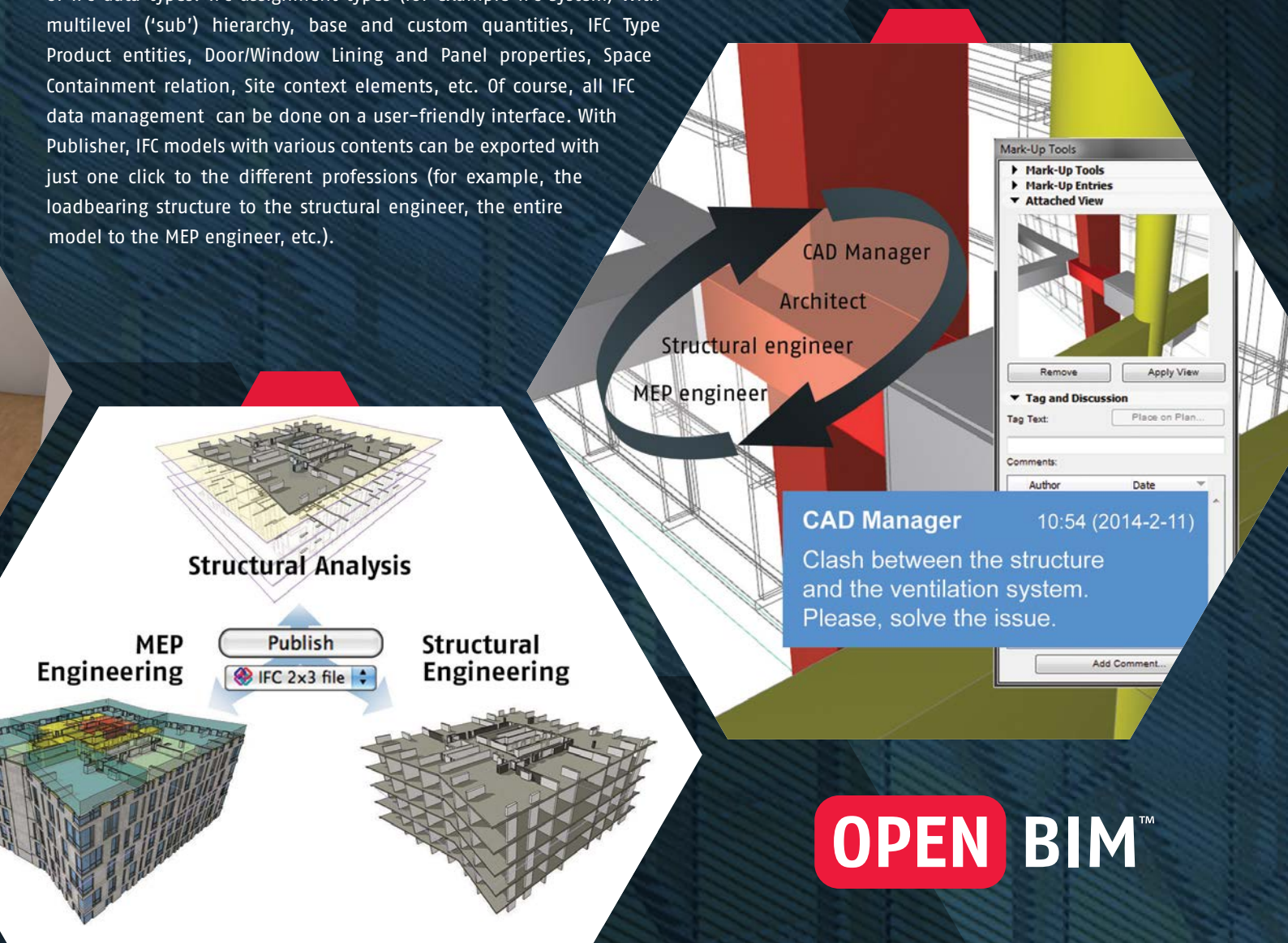
ArchiCAD supports the major international IFC 2x3 standards (Model View Definitions) required by buildingSMART and other organizations: Coordination View (1.0 and 2.0), Coordination View (Surface Geometry), Basic FM Handover View (required for COBie documentation), and Concept Design BIM 2010 (required by GSA in US, Statsbygg in Norway, and Senate Properties in Finland). Support for these standards improves a wide range of interoperability workflows with consultants and other disciplines.

Thanks to the standard requirements, ArchiCAD supports a wide range of IFC data types: IFC assignment types (for example IFC System) with multilevel ('sub') hierarchy, base and custom quantities, IFC Type Product entities, Door/Window Lining and Panel properties, Space Containment relation, Site context elements, etc. Of course, all IFC data management can be done on a user-friendly interface. With Publisher, IFC models with various contents can be exported with just one click to the different professions (for example, the loadbearing structure to the structural engineer, the entire model to the MEP engineer, etc.).

BIM Collaboration Format Support

In addition to IFC, ArchiCAD supports highly iterative coordination with engineers and consultants with full BCF support. The BIM Collaboration Format (BCF) is an open file format that allows the addition of textual comments and screen-shots on top of the IFC model layer for better communication between the coordinating parties. ArchiCAD integrates BCF information natively into the BIM model in the form of ArchiCAD Mark-Up entries. As a result, ArchiCAD joins major BIM applications (including model checker, structural and MEP engineering software) that support the BCF format.

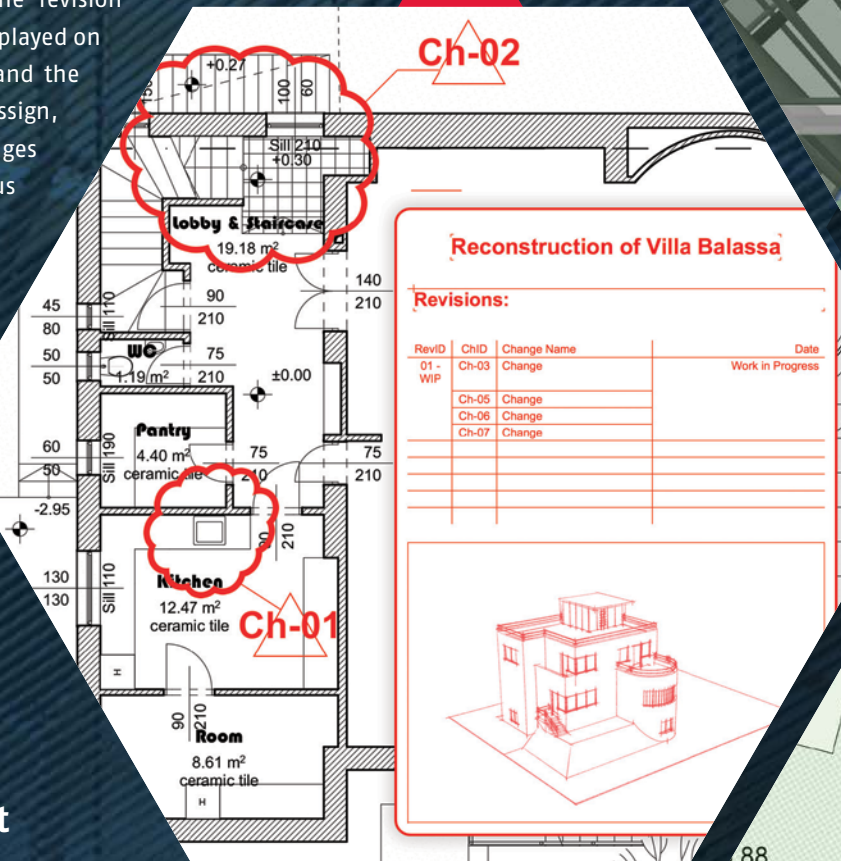OPEN BIM™

Integrated BIM Workflows

ArchiCAD 18 provides new, fully-integrated Revision Management workflows and streamlined PDF support to greatly improve design data exchange and change management with clients, consultants and the authorities.

Revision Management

Data exchange with the different disciplines and the authorities puts legal responsibility on architects and designers. System support in ArchiCAD makes sure changes are tracked and documented so responsibility issues won't be debated later on.

The brand new Revision Management solution is integrated into the entire BIM workflow, providing solutions for 2D, 3D or any kind of hybrid workflows. Document changes to the building model are automatically tracked and managed throughout the full project cycle.

The customizable details of the revision history can be automatically displayed on layouts. The Change Manager and the Change tool can be used to assign, create, manage and track changes and change requests in various project views.
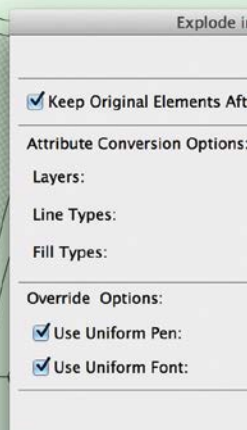
Enhanced PDF Support

ArchiCAD 18 offers a smooth, PDF-based workflow and improved PDF-based data exchange by introducing BIM-related intelligence and data hierarchy into Adobe's Portable Document Format.

ArchiCAD 18 can directly export the documentation set in PDF-A (archieve) format and, in addition to supporting PDF import and export, also provides advanced handling of layers and drawing elements in an intelligent way, making PDF truly collaborative data.

The PDF Attribute conversion options allow users to fine-tune the representation (pen, font conversion and attributes) of the imported PDF files; 3D project content can also be included in the exported PDF sets.

Natural Constraints in BIM

ArchiCAD 18 unveils substantial enhancements to its existing workflows, proving that listening to customers is of primary importance when assigning development resources at GRAPHISOFT.

GRAPHISOFT invented BIM in 1984 by developing ArchiCAD specifically for architects. ArchiCAD 18 offers a set of natural constraints that feel so smooth you won't even realize they're there! ArchiCAD 18 offers a rich set of Natural Constraints:

Smart Vertical Model Constraints work the way architects think. The ability to link elements to neighboring stories gives architects the speed and power to modify the building height, the height of single, or multiple stories, and never worry about inconsistencies. Walls, columns and zones can all follow those changes in floor height.

Composite structures can connect in great ways with a single command. Adjusting the core of adjoining composites to connect leaves no residue, only the cleanest junctions.

Connected to individual elements, smart model constraints combine and work on convenient solutions to keep architects focused. Smart Constraints are also available between Elements.
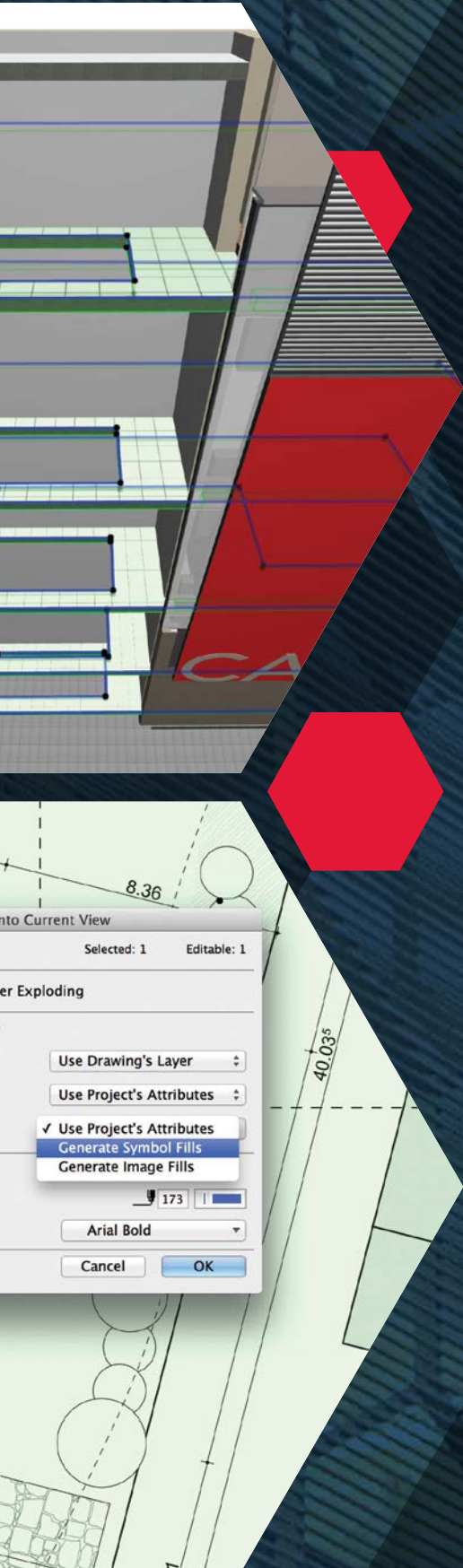
BIMcloud® Integration

ArchiCAD 18 offers industry-first, real-time BIM collaboration regardless of the size, location or set-up of the collaborating team.

The true potential of BIM is best realized through a team effort with several contributors collaborating on the same BIM data. Cloud integration allows the ArchiCAD team to soar without limits. With the help of its mobile integration through the cloud, all stakeholders of the design-build process can actively participate in the collaborative work.

GRAPHISOFT's BIMcloud Solution goes far beyond basic cloud services offerings available on the market today. It is an all-round cloud-based collaboration solution providing the complete software layer necessary for deployment on premises as a private cloud solution or in the public cloud as a cloud service.

By design, GRAPHISOFT's BIMcloud is suited for even the most stringent enterprise-level workflow and security requirements to provide a suitable solution for companies where collaboration is a critical part of conducting everyday business.

GRAPHISOFT

BIMcloud

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ArchiCAD 18 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/videocards

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

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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!

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