

Bentley® Building Electrical Systems V8i

Comprehensive Building Information Modeling Software for the Design and Documentation of Building Electrical Systems

Bentley Building Electrical Systems V8i is a focused application for electrical engineers, designers, and electrical BIM practitioners responsible for the design, construction, operations, and maintenance of facility electrical systems. This application allows the user to design, analyze, document, collaborate on, build, and manage power, lighting, fire detection, security, communications, and other electrical/electronic systems in a Building Information Modeling environment.

Supports All Engineering Workflow Phases

With an intuitive user interface, powerful modeling, design, and reporting tools, and extensive component libraries, Bentley Building Electrical Systems V8i supports all phases of the engineering workflow, from conceptual to detailed design, from modeling of complex electrical subsystems to analysis, documentation, and management, integrating design, visualization, drawing production, and reporting of quantities and costs.

The software is an integral part of Bentley's Building Information Modeling (BIM) portfolio of integrated design, engineering, and management applications for the entire lifecycle of constructed assets. Used on large and complex projects around the world, Bentley Building Electrical Systems V8i was specifically developed to support workgroups and distributed teams in a managed environment allowing engineers, architects, and contractors to 'Build as One.'

Intelligent BIM provides business-critical benefits over computer-aided design (CAD). For example, it eliminates waste, significantly reduces errors and omissions, provides greater predictability of costs and performance, allows exploration of more design options, and results in better buildings.

Design and Modeling of Electrical Subsystems

Focusing on electrical design and engineering, Bentley Building Electrical Systems V8i streamlines the design and modeling process for a variety of electrical subsystems, such as lighting, power, fire detection, security, communications, and other building subsystems. A comprehensive range of dedicated tools facilitates automated symbol placement, raceway design, cable and circuit routing, schedule generation and more, supporting a variety of international, country-specific and user-defined standards.

Stepwise Refinement of the Design Process

The concept of "stepwise refinement" allows design professionals to add more detailed information at different

stages in the project lifecycle to support the incremental process of electrical design and to manage design changes.

Choice of 2D, 3D, or Both

The building information model can be created and manipulated in a traditional 2D plan or an advanced 3D model environment (or both) – using the same tools and an identical interface.

Automated Drawing Production and Coordination

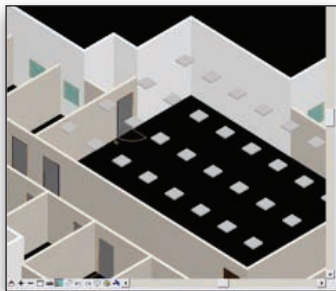
Instead of driving the process, design and construction deliverables are virtually a by-product of the design workflow. Design data is entered only once and re-used over and over. Powerful features, such as automated generation of schematic diagrams and drawing legends, facilitate the rapid creation of construction drawings. Plans, sections, and elevations comply with user-definable drawing standards and rules for resymbolization and annotation. Coordination and consistency is thereby ensured across all documentation.

Integrated Schedules and Reporting

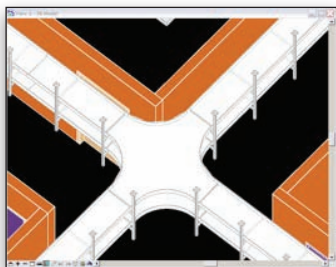
Electrical properties and user-definable attributes associated with electrical components can be used to query the information model, to make selective or global changes to electrical systems and non-graphical information, and to generate accurate schedules and reports, such as cable and device schedules, cost estimates, panel schedules, etc. Bidirectional interfaces to a variety of industry-standard power engineering and lighting design analysis programs, such as EDSA, ProDesign, Lumen Designer, DIALux and Relux, are provided. Interactive design and analytical interfaces in the design process ensure good design practices and eliminate errors associated with manual data input.

A Managed Environment

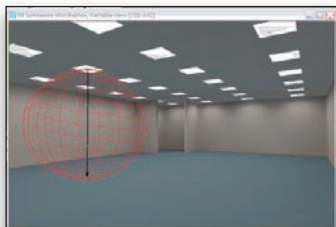
Bentley Building Electrical Systems V8i can be integrated with ProjectWise® V8i, Bentley's project team collaboration platform that manages access to project information across a LAN, WAN, VPN, or via the Internet. It publishes and synchronizes shared information, manages change, protects intellectual property rights, and more.



Automated symbol placement and circuit routing



Raceway design



Interface to lighting design analysis program

