

DDS-CAD Building

All DDS-CAD modules have a set of basic features that is also available as a separate stand-alone program “DDS-CAD Building”. With this genuine Open BIM solution you use a complete system that is independent of third party tools such as AutoCAD, Revit, Bentley and other applications. DDS-CAD Building is equipped with a fully integrated and certified Open BIM interface and provides the ideal basis for an intelligent and multi-disciplinary data exchange with architects, structural engineers and other project stakeholders.

Intelligent BIM/CAD core

Stand-alone intelligent BIM/CAD core that runs on Windows versions Vista, 7 and 8

Network and server compatible as well as multi-user enabled on a project level

Multi-discipline project management

Multi-window technology, any number of models and views (2D, 3D, cross-section etc.)

Import and export of all popular formats such as IFC, DXF, DWG, 3D, DWG, PDF, 3DS, JPG, TIFF, BMP and PNG

Fully integrated DWG/DXF editor with intelligent object mapper

Scale independent design and plot functions in 2D and 3D

Intelligent and associative object dimensioning

Intelligent and parametric 2D and 3D product databases

Automatic realistic height presentation and plot of overlapping objects in top view (OpenGL)

Freely definable cross-sections, part models and elevations in 2D and 3D

Flexible zone function for freely defining individual functional units

Intelligent control and navigation with 3D mouse from 3Dconnexion

Automatic multi-discipline management of layers and pens

Automatically updated print and plot wizard with free scale selection

Automatic plot legends and title fields

Automatic sorting of parts lists according to building, storey and room

DDS-CAD Building

Intelligent building model

Flexible and easy planning of floor plans and building models in 2D and 3D
Extensive selection of intelligent and flexible 2D and 3D components
Automatic room recognition from DWG/DXF files, including windows, doors and room labels
Intelligent bi-directional Open BIM data exchange via IFC (buildingSMART)
Flexible presentation of rendered 3D model
Automated model quality checks, cross-discipline collision detection and real-time clash prevention
Easy editable building model e.g. in case of architectural changes
Intelligent design of suspended ceilings, roof windows, roofs and dormers
Flexible design of PV fields on roofs, facades and ground surfaces
Block out, recess and wall opening planning with automatic discipline specific labeling
Automatic and configurable room labels
Automatic calculation of room surfaces and volumes, including roofs and dormers
Easy merging of complete building model including all disciplines for presentation and controlling
Efficient project management, exchange and coordination with BIM collaboration format (BCF)
IFC and gbXML output for energy performance, cooling load and other building simulations

Add-on modules for DDS-CAD Building

DDS-FR	Escape and rescue plans
DDS-AR	Advanced rendering, sun animation and video
DDS-CON	Opening, viewing and controlling of DDS-CAD projects
DDS-ND	Additional charge for network licensing (calculated over total license price)

DDS-CAD Electrical

Discipline specific features	02	10
Complete 2D and 3D electrical design features for: - Low voltage, PA, aerial, security, movement and presence detector system, lighting design - EIB/KNX, telephone, video, fire alarm, nurse call and intercom systems	●	●
Design of cable trays, ladders, ducts, floor trunking and conduits	●	●
Bi-directional interface with DIALux and Relux for advanced light calculations	●	●
Simulation and planning of detection areas for movement and presence detectors	●	●
Design of lightning protection and earthing systems as well as equipotential bonding	●	●
Intelligent circuit selection with circuit and component dimensioning	●	●
Intelligent cable trunking function with automatic cable length calculation	●	●
Diversity factor for determination of load performance per circuit and distributor supply	●	●
Automatic calculation of end component performance over sub distributors up to the main supply	●	●
Voltage drop calculation with automatic real-time load calculation	●	●
Automated model quality checks, cross-discipline collision detection and real-time clash prevention	●	●
Control function for non-connected components	●	●
Associative and freely configurable component, cable and circuit labeling	●	●
Automatic and fully configurable legends	●	●
Intelligent exchange between model and distributor database; automatic update of electrical diagrams	●	●
Bi-directional intelligent KNX interface to ETS3, 4 and 5 via the app „ProjectDataExchange“ from IT GmbH	●	●
Intelligent exchange of 3D building model with KNX components to visualization software Elvis	●	●

DDS-CAD Electrical

Flexible distributor planning	02	10
Automatic creation and update of sheet, revision and circuit lists	●	●
Automatic block and single line circuit diagrams	●	●
Bi-directional interface with test and measurement equipment from GMC-I	●	●
Extensive technical database with intelligent symbols, components and circuit macros	●	●
Flexible presentation and intelligent configuration options for sheets and circuit diagrams	●	●
Automatic numbering of components and terminals including cross-referencing	●	●
Automatic visual warning of under dimensioned components	●	●
Automatic prevention of double connections for contacts, components and terminals	●	●
Automatic creation and update of multi-line circuit diagrams		●
Complete distributor board layout in 2D and 3D with calculation of spacing units		●
Automatic distributor views (side, interior, door, 3D view), punch patterns, mimic diagrams		●
Automatic tabular patch panel overview for network and data systems		●
Intelligent KNX layouts for automatic circuit diagrams and overview of modular devices		●
Graphical PLC card overview with automatic cross-referencing of inputs and outputs		●
Automatic creation of cable connection and terminal diagrams		●
Creation of measurement, control and regulation technology diagrams and data network cabinet views		●

Add-on module for DDS-CAD electrical

DDS-PS	Polysun Inside
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