

## 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.

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### Intelligent BIM/CAD core

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Stand-alone intelligent BIM/CAD core that runs on Windows versions 7, 8, 8.1 and 10

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

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Multi-discipline project management

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

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

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Integrated BCF manager for intelligent IFC based model coordination and communication

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Fully integrated DWG/DXF editor with intelligent object mapper

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

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Intelligent and associative object dimensioning

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Intelligent and parametric 2D and 3D product databases

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

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

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Flexible zone function for freely defining individual functional units

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Intelligent control and navigation with 3D mouse from 3Dconnexion

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Automatic multi-discipline management of layers and pens

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Automatically updated print and plot wizard with free scale selection

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Automatic plot legends and title fields

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

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## 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 (ISO 16739)
Flexible presentation of rendered 3D model
Intelligent and interactive real-time clash prevention whilst designing
Comprehensive configurable clash detection engine for the MEP, structural and architectural disciplines
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
Intelligent and dynamic generation of opening elements with automatic annotations
Model-based coordination for provision for voids based on IFC
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, communication and coordination with BIM collaboration format (BCF)
IFC and gbXML export for energy performance, cooling load and other building simulations
Automatically sorted parts lists according to building, storey, room, distribution board and circuits

## Add-on modules for DDS-CAD Building

DDS-FR	Escape and rescue plans
DDS-UHL	U-value and heat load calculation according to EN 12831
DDS-WRL	Small retail and residential controlled ventilation systems
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)