

Features of WSCAD 5

CAD for Automation Technologies and CAD for Electrical Engineering

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General Information about WSCAD 5

WSCAD is modular structured, therefore you are able to start with the **Basic** - version and, at a later time, expand it to a higher version (**Compact** or **Professional**) **with more features**. Drawings that have been made with a lower version are fully compatible with higher versions.

The three software modules of WSCAD 5 which are build up on each other containing a tried and tested range of functions.

Basic - Version

The **Basic version** is particularly suitable for commissioning, when the planning itself was already completed and no more major alterations are anticipated. It is equally well suited to the creation of smaller and less extensive projects.

Compact - Version

The **Compact version** is often used in the maintenance department. The advantage of the Compact version is in the adaptable circuit design, such as when an installation or machine already exists and needs modifications. In addition, this version is especially suitable for the creation of diagrams for small to medium-sized projects. Various automatic functions are available, such as cross-referencing, terminal charts, numbering and contact mirroring.

Professional - Version

The **Professional version** is used in the planning, development and documentation of new projects. Here the user has at his disposal an extensive range of powerful online and monitoring functions which are indispensable in the creation of new projects. Errors are eliminated from the beginning and productivity is increased.

It does not matter with which version you will start with. There are no restrictions on upgrading from a lower module to a higher one. Single-user licences or network licences with common access to project data, database and libraries, or combinations of these, offer a systems-oriented method of working.

Features of WSCAD 5.3

General	Basic	Compact	Professional
- Schematic			
Drawing pages per project	10000	10000	>10000
Sub pages creating in existing projects	✓	✓	✓
Docking project management with file preview and sorting function	✓	✓	✓
Project-specific information is automatically copied into the drawing frame	✓	✓	✓
Export/Import of several projects	✓	✓	✓
Unit/Field designation; Unit/Field region	-	-	✓
Text Box	✓	✓	✓
Path text	✓	✓	✓
Black Box	-	✓	✓
Component Box	-	-	✓
Destination wiring	✓	✓	✓
Terminal browser and Cable browser	-	✓	✓
Material browser and Line name browser	-	-	✓
Text find/replace	-	✓	✓
Free configuration of drawing frames and lists (layout)	✓	✓	✓
Foreign language display / single word translation	✓ / -	✓ / -	✓ / ✓
Dimensions	✓	✓	✓
Printout labels of equipment, cables and terminals	-	✓	✓
- Installation drawing			
Create a floor plan of electrical installation	✓	✓	✓
Clearly arranged floor management with installation zones	✓	✓	✓
Layer management with intelligent automatic allocation	✓	✓	✓
Drawing functions	Basic	Compact	Professional
- Schematic			
Symbols from standard IEC 40719 or IEC 61346	✓	✓	✓
Symbol explorer with preview when loading a symbol, including symbol search and favourites	✓	✓	✓
Symbol editor for drawing own schematic symbols	✓	✓	✓
Online symbol update via Internet	✓	✓	✓
Online article update via Internet	-	-	✓
Macro explorer for fast loading of drawing macros	✓	✓	✓
Drawing pin and socket separately / pin and socket together	✓ / -	✓ / ✓	✓ / ✓
Project Wizard (Add On): Test version with 5 pages	-	-	✓
Info Link for defined symbols (p.e. type plate) with access to symbol parameter / article data base	-	✓ / -	✓ / ✓
Creating construction lines with Shortcuts for Symbol Editor, Schematics and Cabinet constructions	✓	✓	✓
Colorcode and Connector code defined via dialog	-	-	✓
Symbol editor: PIN design via PIN Table	✓	✓	✓
- Installation drawing			
Symbol libraries of all areas for electrical installation	✓	✓	✓
Symbol editor for drawing own electrical installation	✓	✓	✓
Drawing format DIN and free format until 30mx30m	✓	✓	✓
Scale 1:1 until 1:1000	✓	✓	✓
Fly Eye for display actually position in the drawing	✓	✓	✓
Altitude differences indication	✓	✓	✓
Print preview of drawings	✓	✓	✓
Snap function	✓	✓	✓
Undo when drawing conductors	✓	✓	✓
Pre definitions of cables and conductors	✓	✓	✓

Automatic functions	Basic	Compact	Professional
- Schematic			
Numbering of symbols	-	✓	✓
Generating cross references with designation wiring/online	- / -	✓ / ✓	✓ / ✓
Automatic generation of line names in various forms	-	-	✓
Control cabinet construction manual / semi automatic	✓ / -	✓ / -	✓ / ✓
Terminals : single terminal, multi level terminal, jumper	-	✓	✓
Cable manager / Cable browser	-	- / ✓	✓ / ✓
Connector management / Connector browser	-	- / ✓	✓ / ✓
Contact manager (allocate Contactor)	-	✓	✓
Contact manager and Conductor cross reference online	-	-	✓
Coil cross reference / generate contact reflector	-	✓	✓
Creating cross reference on main- and side elements (no SPS)	-	✓	✓
PLC cross references and PLC manager online	-	-	✓
Replacing drawing frames	-	✓	✓
Automated listings/charts			
	Basic	Compact	Professional
- Schematic			
Generate single – or total lists (e.g. wiring chart, material list, ...)	-	✓	✓
Project data	-	✓	✓
Summary	-	✓	✓
Revision history	-	-	✓
Terminal Chart	-	✓	✓
Connector chart	-	-	✓
Cable list	-	-	✓
Cable chart	-	-	✓
Wiring chart	-	-	✓
Reference list	-	-	✓
Material list	-	✓	✓
Interfaces			
	Basic	Compact	Professional
- Schematic			
DWG/DXF - Import with selection of layers and position preview	✓	✓	✓
DWG/DXF - Export	✓	✓	✓
Export in BMP- PCX- and PNG - Format	✓	✓	✓
VNS - Export	-	-	✓
Import of parts data via ECAD standard component interface	-	-	✓
UGL/UGS Export	-	-	✓
Import of ASCII-, Excel- und Datanorm 4.0 - files	-	-	✓
Cable list / Cable chart: Output as Excel / ACCESS	-	-	✓
Label-Export to Grafoplast, Phoenix, Murrplastik, Excel or ACCESS	-	✓	✓
Import/Export of SEQ lists for PLC module as Excel, SEQ-Txt-format	-	-	✓
Terminals: Output to WAGO ProServe Smart DESIGNER Vers. 4.1	-	-	✓
- Installation drawing			
DWG/DXF Import & Export with layer selection	✓	✓	✓

New features of WSCAD 5.3

New features of WSCAD 5.3	Basic	Compact	Professional	Project Wizard
- Project management:				
Search function: Projects searching, using Project names or Project information	✓	✓	✓	-
Filter function: Projects filtering, using Project information	✓	✓	✓	-
Project import: Transfer elderly Projects selective	✓	✓	✓	-
Import Zip-Files: Template transfer selectable	✓	✓	✓	-
Relative path for Program data are recorded and therefore independ by Project transfer	✓	✓	✓	-
- Interfaces:				
Output Terminal – and Cable labels for Lapp	-	✓	✓	-
- General Drawing functions:				
Component-Box to create large external components	-	-	✓	-
Relative name for complete Project Character type settle “Fat“	✓	✓	✓	-
Symbol change: Existing Symbols can be substitute for other Graphics	✓	✓	✓	-
Information of technical Documents about Symbol parameter	-	-	✓	-
External Datasheets/Instructions copying project-oriented for Documentations	-	-	✓	-
Filename display of a linked Graphic	✓	✓	✓	-
Info-Link-Symbols refresh	-	-	✓	-
Expert-Settings: Internal Switch for special Functionalities	✓	✓	✓	-
Black box – Dimensions changing later	-	✓	✓	-
Drawing frame changing with new Dialog about entire Project	-	✓	✓	-
Loading Cabinet symbols with Symbol explorer	✓	✓	✓	-
Additional Pin forms for Connections	✓	✓	✓	-
- Cable:				
Cable duplicating: Cable conductors drawing twice on different pages	-	-	✓	-
Cable browser: Creating a Cable drawing with Dialog	-	-	✓	-
Cable browser: Numbering cables automatically	-	✓	✓	-
- Terminals:				
Distributed Terminals to apply as Master/Slave Terminals	-	✓	✓	-
Cross-reference with distributed terminals	-	✓	✓	-
Terminal connection with Numbering disabled with Symbol-parameters	-	✓	✓	-
Terminal browser: Additional text 1 and 2 editable	-	✓	✓	-
- Foreign Languages:				
Foreign languages text export in PLC-List	-	-	✓	-
- Parts management:				
Manufacturer displaying at Combination parts	-	-	✓	-
- Cabinet manager:				
Preview for Cabinet symbols	-	-	✓	-
Terminal block loading complete after Definition in Terminal-browser	-	-	✓	-

Further new features of WSCAD 5.3	Basic	Compact	Professional	Project Wizard
- ProjectWizard				
DW-Elements connecting with Conductors automatically	-	-	-	✓
Additional parts fill in with text allocating	-	-	-	✓
Page number transfer from Macro automatically	-	-	-	✓
Sets inserting: complete Drawing parts loading and inserting	-	-	-	✓
- Connector management:				
Connector browser	-	✓	✓	-
- WSCAD Internet Services				
Cable and Connector codes to update	-	-	✓	-

Hardware requirements

Hardware requirements	Minimum required		Recommend
	Windows 2000/XP	Windows Vista	
Operation System:	Windows 2000/XP	Windows Vista	Windows XP
CPU:	1,6 GHz	3 GHz	3 GHz
RAM:	256 MB	1 GB	512 MB
Hard disc:	500 MB	1 GB	1 GB
Graphic Card:	64 MB	256 MB	256 MB
Internet access:	-	-	✓
Monitor:	Standard	Standard	Widescreen

Make sure that the newest Microsoft service packages are installed!