



BUILDING AUTOMATION

WITH THE WSCAD SUITE

Simple - accurate - fast



WSCAD GMBH

NEXT GENERATION ELECTRICAL CAD

” Our goal isn't just to create CAD software.
Our goal is to create great experiences for engineers
so they can finish their projects faster, better and easier.

Dr. Axel Zein (CEO)

35,000
CUSTOMERS

29 years
OF ONGOING MARKET SUCCESS

18
COUNTRIES OFFER
WSCAD SOLUTIONS

24%
OF REVENUE IS RE-INVESTED
IN R&D

WSCAD is part of the Buhl group with more than 700 employees. WSCAD has been developing electrical CAD solutions for over 28 years. Customers include medium-sized companies, international corporations and engineering service providers. More than 35,000 users rely on WSCAD SUITE as their electrical CAD solution. The software is based on one core platform that covers six engineering disciplines: electrical engineering, cabinet engineering, piping and instrumentation, fluid engineering, building automation and electrical installation. Any change made to a component in one discipline immediately reflects in all the other disciplines. WSCAD methodologies for standardization, reuse and automation significantly reduce engineering time from several weeks to just a few hours or even minutes. At the same time, these practices also ensure a much higher quality of work.

wscaduniverse.com is by far the largest electrical CAD data library on the market offering over 1.3 million parts from more than 240 manufacturers. It is the only digital library that supports both WSCAD and Eplan* users alike as well as 3D CAD data. Use and provision is free of charge for all users and manufacturers of parts and equipment. Maintenance engineers and service personnel are now able to scan devices and components within a control cabinet by using the WSCAD Augmented Reality App on their smartphones or tablets. This provides them instant access to the schematics, device tags, part data, 3D views and even the original data sheets from the manufacturers.

The WSCAD portfolio is completed by eleven seamlessly integrated service offerings from WSCAD Global Business Services such as: engineering checkups, consulting and training, digitization of paper documents and conversion of third-party electrical CAD formats.

* These brands belong to third parties who have no connection with WSCAD GmbH

WSCAD building and room automation

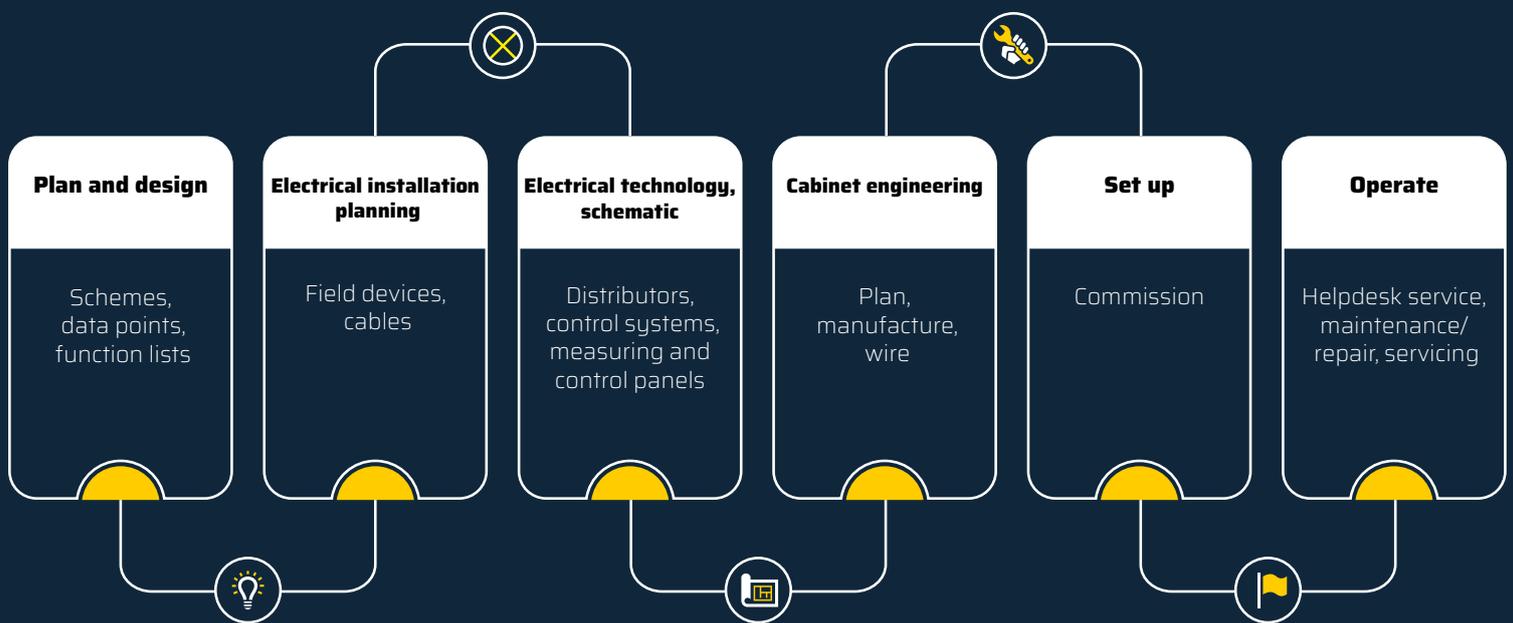
Planning and documentation according to DIN EN ISO 16484 and VDI 3814/3813

GA planers

EMSR companies

Installation company

Facility Management



WSCAD has played an active role in shaping and organising modern planning in building automation. The Building Automation module is one of six disciplines in WSCAD SUITE X. All functions such as PIK, UCS, items or texts are linked to one another via the central database, and are instantly available in all disciplines. Changes are instantly executed in all plans and across all trades, components and data do not need to be compiled several times. Being able to structure and display all aspects in accordance with DIN EN 81346 results in clear location, function and product aspects. Re-using them is a piece of cake. Project planning using the three-layer model - unit, objects, properties - as well as documentation in the form of intelligent PDFs with cross-references and a tree structure, lays the foundation for intelligent project planning and transparent service: compliant with BACNet, or specific to the property. Fitters wire connections quickly and safely via the app, and maintainers scan field devices and components and have instant access to all current plans - including UCS, 3D component views, full item data and original manufacturer data sheets.

1.3 M
symbols and part data

The benefits at a glance

- „Little Closed BIM“: Cross-trade planning in building automation
- Easily import DWG/DXF drawings for further processing
- Link devices across disciplines with an active jump label
- Use of wscaduniverse.com is included, with over 1.3 million ECAD symbols and item data from more than 240 manufacturers, as well as native 3D data
- Insert additional documents as PDF, txt, xls, etc.
- Consistent data point management from schema to control system
- Structure and display all aspects at a higher level in accordance with DIN EN 81346 (function, location and product aspect)
- Define the plant identification key (PIK) in various ways
- Mechanisms to automate planning processes (standardising, structuring, macros, generating plans and configuring)
- Generate compliant and complete documentation at the touch of a button
- The right data, always in the right place: Project export via WSCAD AR App

WSCAD BACONTROL

Perfectly suited for building automation, room automation and electrical installation:
GA planners and MSR companies

- Create schemes more quickly with ready-made macros or via the wizard
- Easily place and move macros in the scheme
- Import schemes (DWG/DXF, PDF) and incorporate them into the WSCAD data structure
- Generate function lists according to VDI 3814 (buildings) and VDI 3813 (rooms), including individual object display (BACNET)
- Electrical installation diagrams: Import floor plans and drawings from DWG/DXF or PDF files that are true to scale, place field devices in the floor plan (positioning, installation planning), equip with intelligence, and continue working with them
- Generate cable lists from the floor plan with length calculation
- Quantity surveying and evaluation

WSCAD BAPROJECT

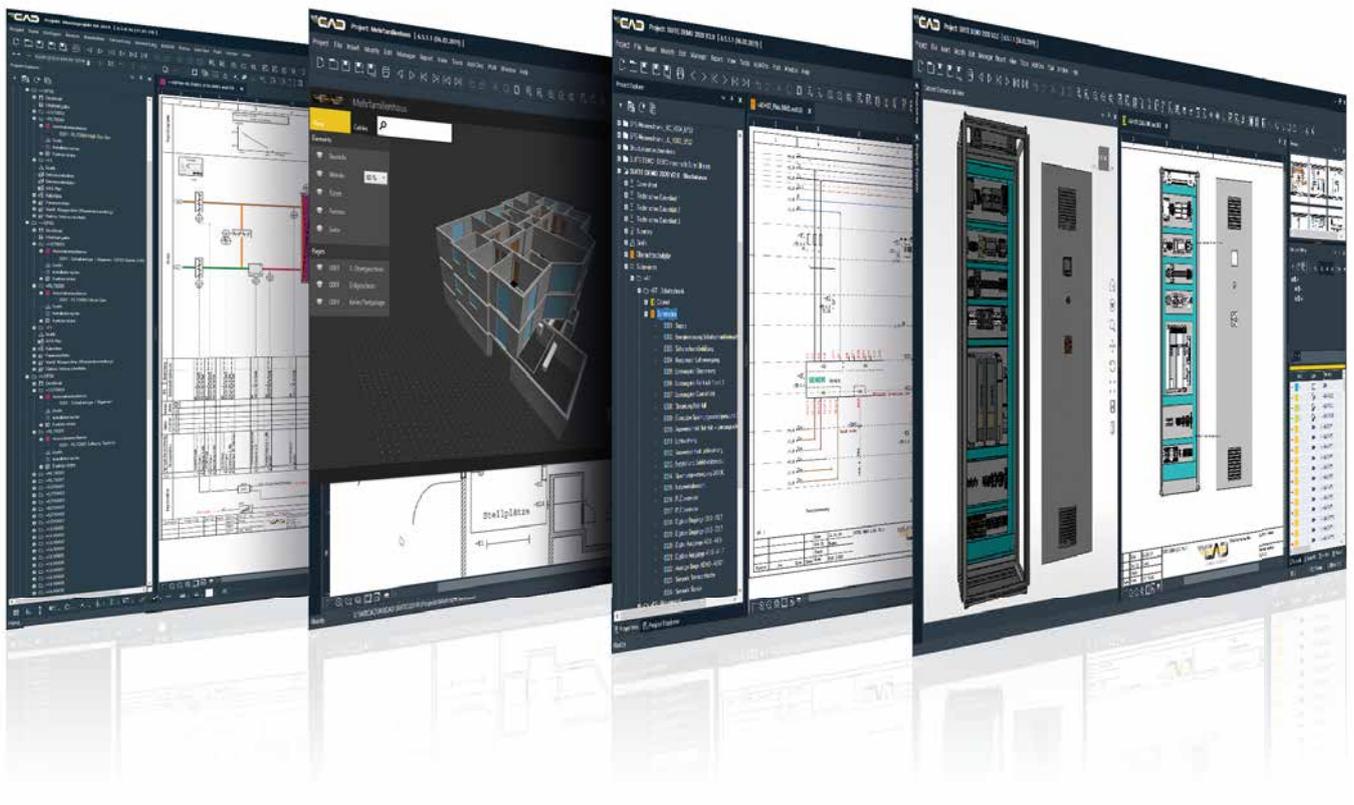
For anyone who requires a comprehensive electrical and cabinet planning system alongside building automation and electrical installation: MSR companies, cabinet designers and electrical installers

Contents are the same as WSCAD BACONTROL, including:

- Schematic diagrams (single and all-pole display),
- Automatically manage contactors, terminals, cables and item data from various manufacturers
- PLC manager for quick and intuitive control system design (PLC/DDC)
- Manage items with symbols and assign macro for all disciplines and data sheet linking
- Scaled, convenient cabinet planning, and wiring lists are created automatically:
Erstellung der Verdrahtungslisten:
- Detailed evaluations, as well as a graphical cable and terminal diagram



Wire quickly and safely via the app and quickly call up all corresponding diagrams and data for components during maintenance.



Quickly create schemes using macros, collect data points and use them consistently

Read floor plans, place field devices and equip intelligence

Use all components that have already been created to develop schematic diagrams, generate terminal diagrams, connection and material lists

Quickly route cabinet structures using macros and connections, calculate wire lengths, instantly use generated data on NC machines to manufacture wires and cabinet doors without needing any additional licenses or costs

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