

BUILDING AUTOMATION

WITH WSCAD ELECTRIX

simple – accurate – fast





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



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



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

WSCAD building and room automation

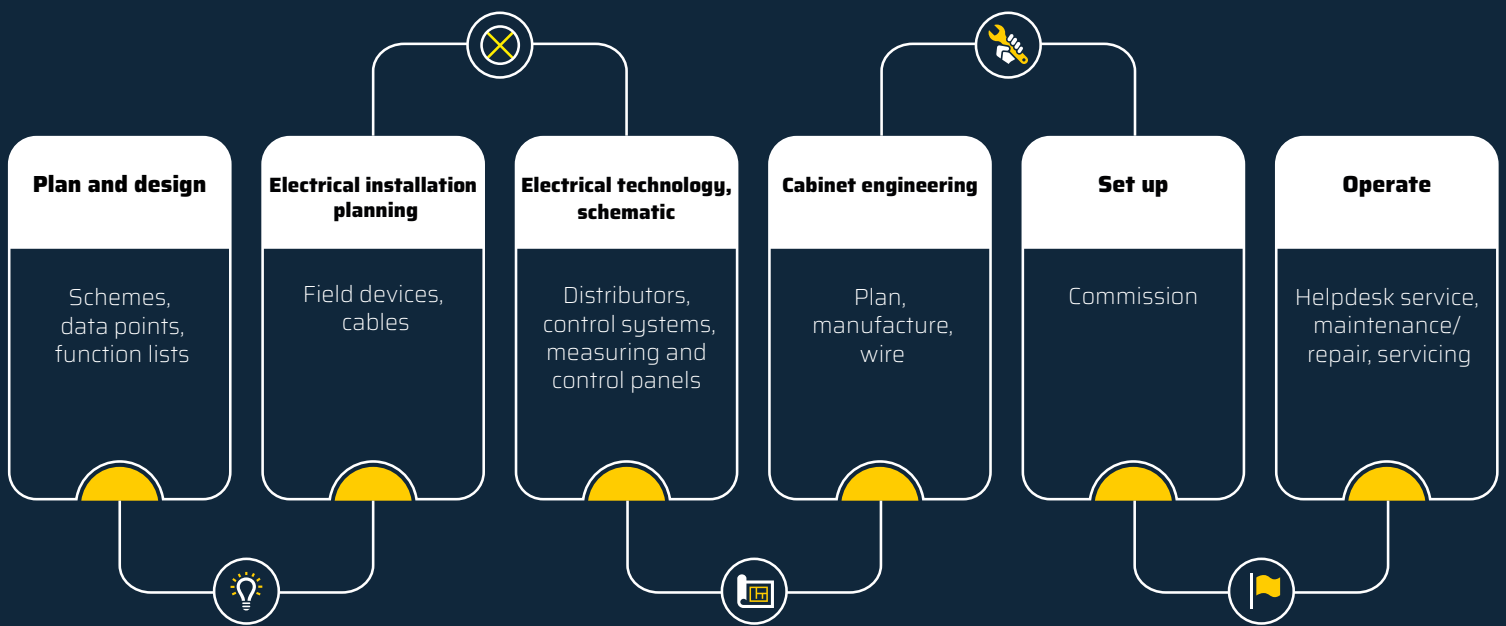
Planning and documentation according to DIN EN ISO 16484 and VDI 3814/3813

■ 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 ELECTRIX. All functions such as PIK, UCS, parts 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 WSCAD Cabinet AR app, and maintainers scan field devices and components and have instant access to all current plans - including UCS, 3D component views, full part data and original manufacturer data sheets.

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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 1.4 million electrical CAD symbols and part data from more than 340 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 Cabinet AR App

WSCAD BA CONTROL

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 report

WSCAD BA PROJECT

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 BA CONTROL, including:

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

Interdisciplinary Engineering with WSCAD

| Function | Benefit | WSCAD BA | Other MEP Software | Other electrical CAD Software |
|--|---|----------|--------------------|-------------------------------|
| Interdisciplinary work: BA-Schemes -> installation drawing -> circuit diagrams -> cabinet design | <ul style="list-style-type: none"> - Time saving - Consistency in engineering data - Improved quality - No loss of information | ✓ | ✗ | ✗ |
| Free customizable datapoint addressing concept | <ul style="list-style-type: none"> - Flexibly adjustable - Changes and updates during project duration possible | ✓ | ✗ | ✗ |
| Working with macros | <ul style="list-style-type: none"> - Freely configurable - Easy to define own macros - Variants and assignment of properties - User-friendly interface - Time saving | ✓ | ✗ | ✓ |
| Automatic generation of circuit diagrams and automation schemes | <ul style="list-style-type: none"> - Construct efficiently with macros and win up to 75% time | ✓ | ✗ | ✗ |
| Own part database (local and online) | <ul style="list-style-type: none"> - Efficient work by standardizing and reusing the data | ✓ | ✓ | ✓ |
| Free plant structuring acc. to IEC 81346 | <ul style="list-style-type: none"> - Clear structuring of the project - Integration of the structure into the addressing concept | ✓ | ✗ | ✓ |
| Symbols acc. to IEC 62424 and VDI 3813 and 3814 | <ul style="list-style-type: none"> - Free and flexible construction with symbol libraries | ✓ | ✗ | ✗ |
| Generation of function lists acc. to IEC 16484 | <ul style="list-style-type: none"> - BACnet compliant presentation | ✓ | ✗ | ✗ |
| Reflection of the data points in information links | <ul style="list-style-type: none"> - Clear assignment of the data points in the automation scheme | ✓ | ✗ | ✗ |
| Standardization of the data points for each device | <ul style="list-style-type: none"> - Increases the flexibility and enables fast defining of own datapoint addressing concepts | ✓ | ✗ | ✗ |
| Auto connection of devices with connection lines | <ul style="list-style-type: none"> - Intuitive construction | ✓ | ✓ | ✓ |
| Intelligent copy-and-paste CTRL-C/CTRL-V | <ul style="list-style-type: none"> - Time saving - Avoiding mistakes | ✓ | ✓ | ✓ |
| Export of smart PDF | <ul style="list-style-type: none"> - Linked cross-references within the document | ✓ | ✗ | ✓ |
| Sheet size freely definable | <ul style="list-style-type: none"> - All standard paper sizes and free sheet sizes - Predefined layouts | ✓ | ✓ | ✓ |
| Import of DWG/DXF | <ul style="list-style-type: none"> - Easy transfer of planning data | ✓ | ✓ | ✓ |
| Import of PDF | <ul style="list-style-type: none"> - Easy transfer of planning data | ✓ | ✓ | ✓ |

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