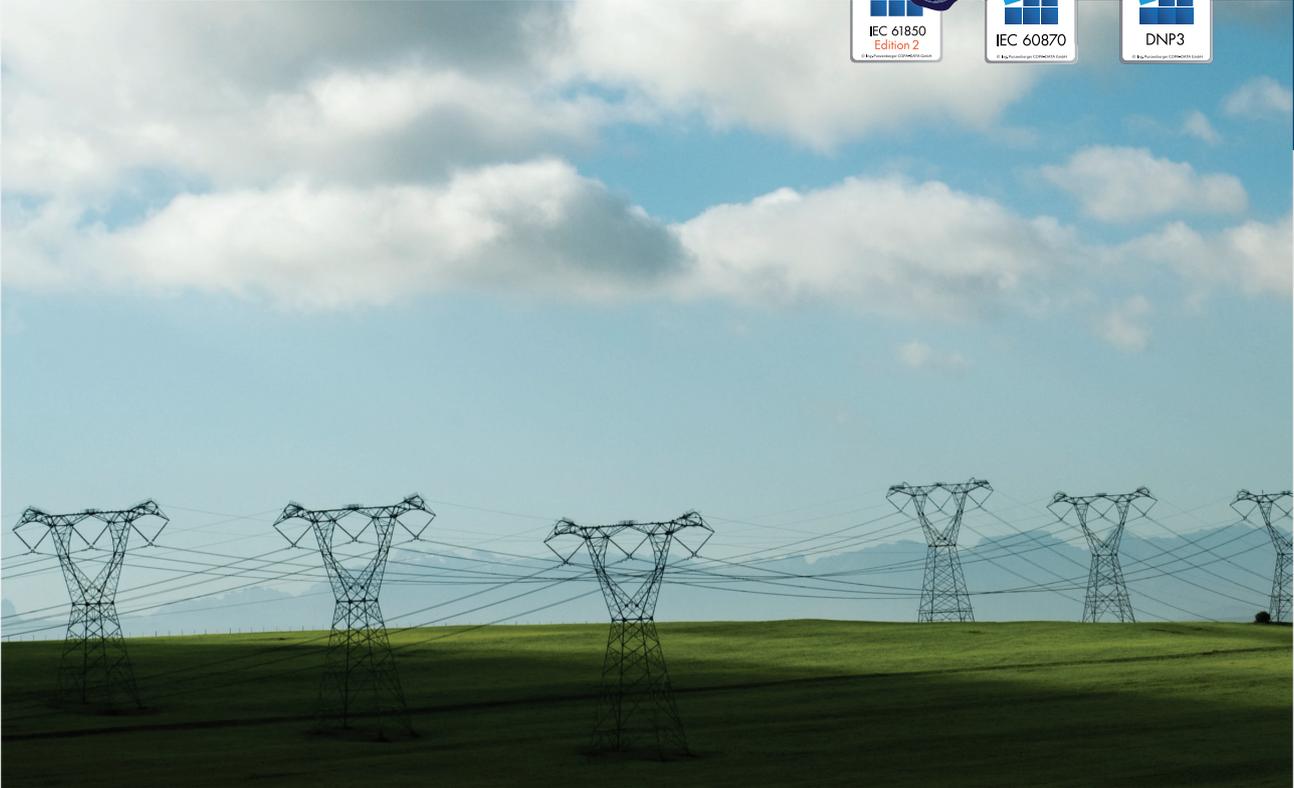




zenon
by COPA-DATA

zenon as a Distribution Management System

You monitor and optimize your electricity grids with zenon as Distribution Management System (DMS). You benefit from quick project configuration, easy operation and maximum security.



Everything Under Control with One Solution

zenon Energy Edition is the perfect software solution for the monitoring and optimization of electrical grids. You thus have the distribution management system under control and benefit from quick project configuration, easy operation and maximum security.

Are you looking for a smart solution for all tasks in monitoring and controlling energy grids? If so, zenon is the appropriate software system for your distribution management system. From configuring a project, through visualization, to reporting and legally-compliant archiving, zenon offers a wide range of applications that make operation secure, stable and efficient.

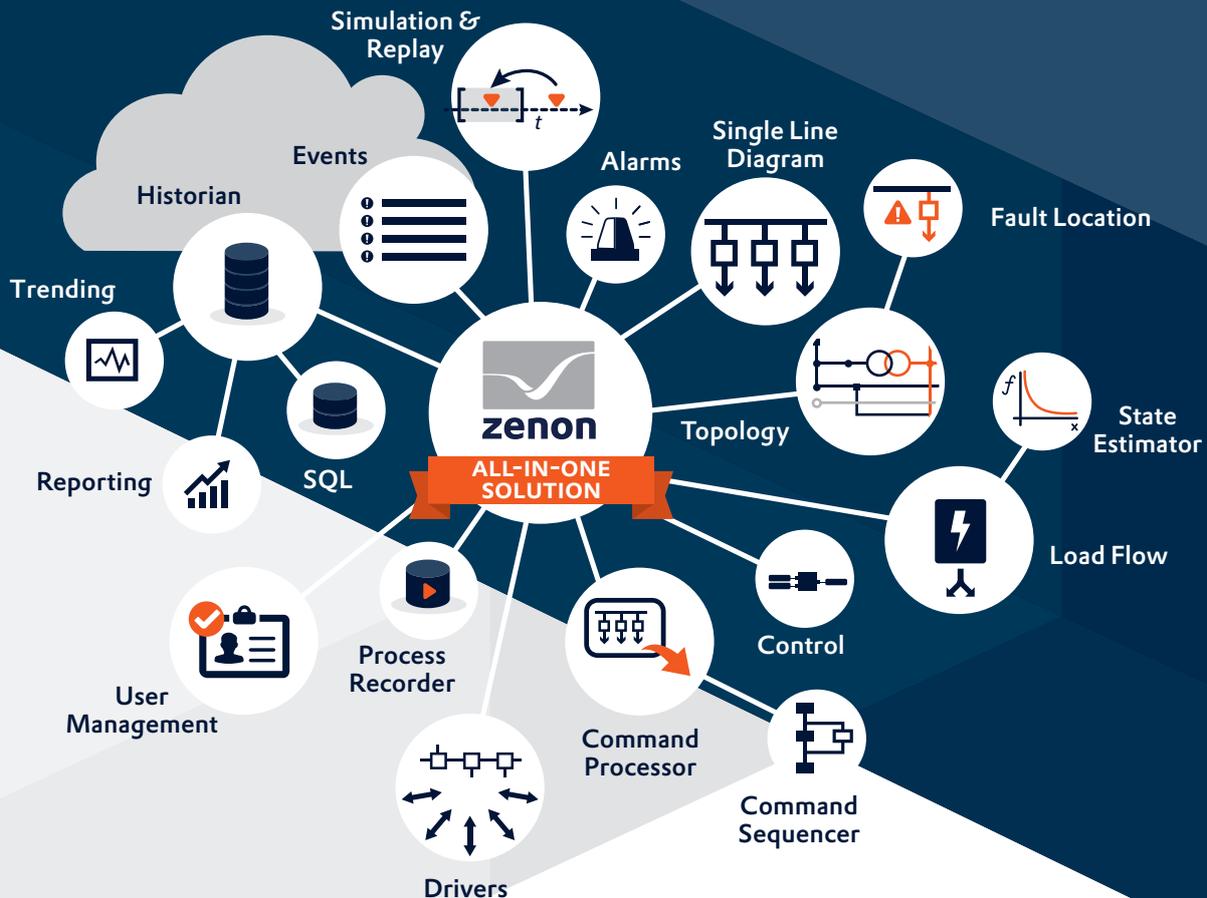
AUTOMATION OF COMPLEX COMMAND SEQUENCES

Complex switching processes require precise planning and high concentration when being carried out. The zenon Command Sequencer, the module for the automation of command sequences, solves this problem and avoids potential sources of errors. You can use it to create command sequences in a protected environment and you can then

test these as a simulation. Execution in live operation is carried out automatically. This is how incorrect switching and unintended switching off is prevented in real operation and the supply security is increased.

PERFECT SITUATIONAL AWARENESS

A central function of zenon is the Worldview. The complete grid, including all energy generators, switching equipment and lines are shown in graphical form and with a clear overview. You can use the zoom function to switch from the overall view to any desired enlargement and have the desired details shown. Information is always only shown in as much detail as necessary. You thus always have an overview and get the information in the level of detail that you really need.



THE PAST UNDER CONTROL WITH THE INTEGRATED PROCESS RECORDER

It is often necessary to reconstruct prior network states, for example after a problem. zenon does away with the laborious search for results and measured values in recorded lists. The integrated Process Recorder displays the past situation clearly in the network view. The prior status of switching devices is evident immediately and can be analyzed more easily. Chronological navigation is easy using the time bar. You can thus better analyze faults, deduce the time of faults more easily and record affected grid areas more easily.

IN THE EVENT – QUICK FAULT LOCATION

zenon sounds alarms in the event of short circuits and ground faults, in that it uses signals from protective devices to detect the location of faults or the direction of faults. Direction displays and impedance measurements are used for locating faults. Line coloring and markers in the network screen show the location of the fault. You are thus able to limit and find the location of faults more quickly, use service personnel more effectively and ensure improved supply quality.

INDIVIDUAL USER INTERFACES FOR A BETTER USER EXPERIENCE

zenon runs in control rooms that are occupied around the clock and are managed in shift operation. Each operator has their favorite settings. The system can thus be configured so that it notes the last settings of the respective user. Each operator can set their preferences at the end of a shift and call it up again on the next shift. There is thus no need to constantly adapt the user interface, because each user gets it exactly as they left it the last time they logged off from the last shift.

OPEN IN ALL DIRECTIONS – FROM IEC 61850 TO MODBUS ENERGY

The software supports all common communication protocols in the energy industry (IEC 61850, IEC 60870, DNP 3, Modbus Energy, IEC 61400-25, etc.). zenon is also well equipped for IoT applications. Microsoft Azure IoT Cloud, for example, can be integrated as native.

Further functions are easy reporting, legally-compliant archiving alarm message lists and much more.

OUR SOLUTIONS FOR THE ENERGY INDUSTRY:



HYDRO POWER



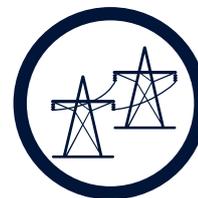
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