

zenon Software Platform



zenon
by COPA-DATA

Data Recording

Both machine-generated data and manual input can be archived together and processed for later use. The data can be correctly structured, aggregated and contextualized already while being stored. It can also be transferred to linked systems via Gateway.

Data Modeling and Data Management

The zenon platform offers comprehensive options to model and contextualize data across plants and production facilities. Also included: equipment modeling according to ISA-95 as well as extensive options to define and use metadata (e.g. batches, shifts, alarm classes and causes of error). Metadata is consistently available in all platform capabilities.

Human-Machine Interactions

Humans are an integral factor in digitalization. The zenon platform supports them in their actions and decisions. zenon visualizes complex systems and processes clearly, which supports sound decision-making. Intuitive intervention and corrections to existing systems can be done easily.

Control of Machines and Plants

The zenon platform allows you to monitor and control machines and plants. Extensive integrated control mechanisms facilitate correct operation and avoid errors. Depending on the requirement, operation can be administered directly at the machine or remotely. Control happens manually or automatically, by using rules and sequences.

Workflow Management

An integrated workflow engine guides users through defined workflows, either pre-installed or dynamically generated. The integrated recording allows for complete performance documentation. In addition, current process values can be integrated into the controlling workflow or workflow documentation. Another option is to link operational steps and instructions with workflows.

Situational Awareness

Situational awareness with zenon includes the presentation of relevant process values in realtime as well as remote alarms. Background information and alarms are processed live and are context-based. They are intuitively and clearly visualized and distributed to the relevant persons.

Universal Access and Operation

zenon allows access to dashboards as well as to reports over a browser, making sure authorized platform users can access relevant information remotely. As an option, remote operational tasks are also possible.

Rights Management

The zenon platform allows extensive and granular allocation and administration of rights, differentiating between data access and operational rights. The rights system regulates interactions between users as well as third-party systems accessing via API.

Universal Communication

zenon's open interfaces enable communication between machines and plant, as well as the seamless integration of shop floor and business operations. Open standards such as OPC UA and standardized interfaces

(e.g. with ERP) facilitate implementation. In this way, zenon promotes the IT/OT convergence.

Distributed Intelligence and Networking

zenon facilitates the appropriate distribution of local and centralized intelligent units. These units can be networked easily and securely. Complex overall architectures thus stay scalable and simple to maintain.

Device and Asset Management

zenon enables you to manage physical plants, which are mapped and integrated including their metadata. Furthermore, by enrichment with process data, a digital twin can be displayed. zenon's asset management promotes efficient maintenance and supports the plant's lifecycle management.

Scheduling

zenon allows for control and documentation based on shift information. In addition, shift data is used as meta-information to calculate key figures and reports. Shift data can also actively be used to control plants and facility infrastructure.

Reporting and Data Evaluation

zenon can compile and visualize historical data into reports and trend graphics. Reports can be manually retrieved or automatically created and distributed. In order to analyze historical process states, zenon has a 'record and play back' functionality.

Analytics

To turn data into information, zenon uses various analytical components. Capabilities extend from simple calculations, such as key figures, to complex analysis for statistical process control. Information can be compiled in realtime or based on historical data. There is also an option for forecasting.

Simulation

zenon's simulation capability lets you test projects under real-life conditions during their creation. It also saves time when preparing a launch or commission. In addition, simulation is used for training purposes as well as for the analysis and maintenance of plant components.

Logging and digital Forensics

If required, zenon logs itself and the state of external components such as network infrastructure. Extensive analytic tools allow for efficient optimization and fault detection.



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COPA-DATA is an independent manufacturer of software for industrial and energy automation. Its products are used in the manufacturing and energy industries for the automated control, monitoring, and optimization of machines, equipment, and power supplies. COPA-DATA combines a wealth of experience in automation with new opportunities for digital transformation, and helps customers to put their strategies into practice in an easier, faster, and more purposeful way.

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