zenon

by COPA-DATA

zenon for Traffic and Public Transportation

The zenon platform from COPA-DATA provides you with a reliable and flexible software solution for the monitoring, control, and maintenance of public transportation and traffic control at your fingertips.

Guaranteed Mobility with Automated Processes

The zenon Software Platform guarantees smooth operation of traffic systems and minimizes their susceptibility to error. The automated processes and the alert escalation chains can help operating personnel to respond promptly to incidents.

SUITABLE FOR ANY AUTOMATION SCENARIO

zenon enables both full and partially automated operations. Native apps for smartphones operating on iOS, Android, Windows Phone, and HTML5-based solutions enable mobile monitoring of your systems at any time and any place. Operating personnel in the control room can use the zenon Worldview function to monitor large-scale traffic infrastructures. The zoom-in function can provide a detailed view of the operations.

OPERATIONS OF BOTH CREWED AND UNCREWED CONTROL ROOMS

With zenon, you can easily and securely control any equipment of infrastructure. A web server enables remote access and remote monitoring. The user administration allows you to allocate the appropriate access rights to each user. Uncrewed control rooms can quickly inform the on-call service personnel of any problems via automated SMS, e-mail, or text-to-speech call. If the first person cannot be reached, zenon informs the next person in the escalation chain. You don't need any permanent control room personnel and will stay fully informed via messages from the system.
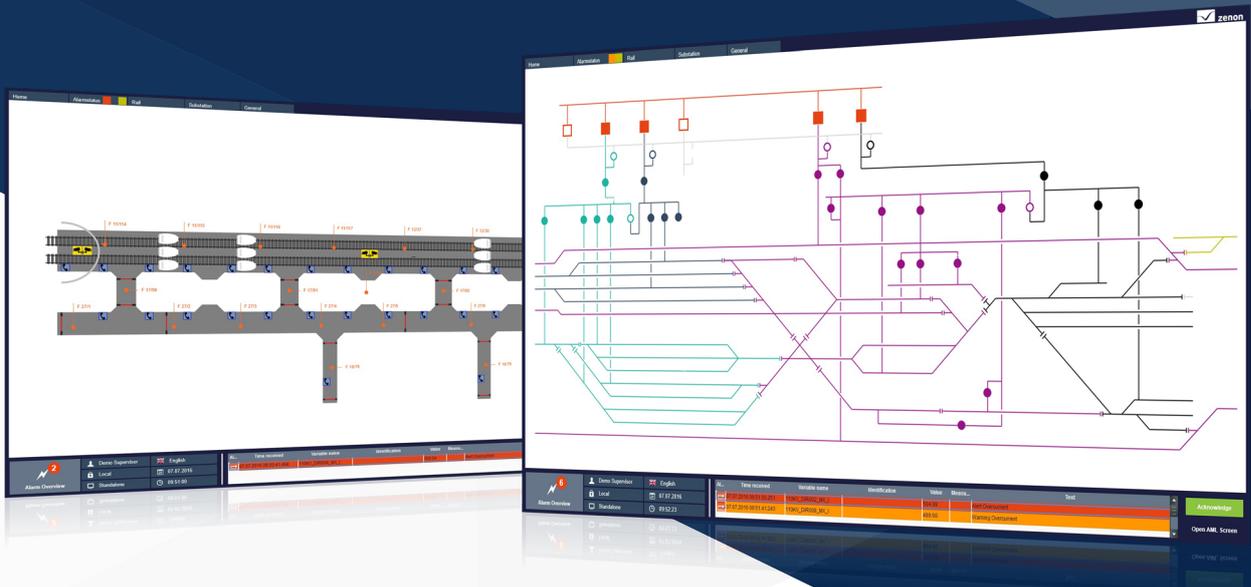
ALARM ADMINISTRATION

zenon can automate the measurement of air quality, outside temperature, and other parameters using sensors. When values such as fine dust and nitrogen oxides (NOx) exceed the preset limits, the automated response will alarm, so you can respond promptly to harmful environmental influences.

SIMPLE INTEGRATION OPTIONS

As an open platform, zenon supports a wide range of communication protocols as well as the integration of ActiveX, .NET, and WPF controls. In addition, the documented API interface seamlessly integrates third-party systems into the overall solution.

PREDICTIVE TRAFFIC FLOW MANAGEMENT

Increased traffic volume or problematic traffic-light sequences can cause traffic to slow down or bring it to a standstill. zenon helps you achieve reliable traffic flow measurement and control. This is the basis for a comprehensive traffic control system and, in turn, a less congested city.

VALUABLE ENERGY SAVINGS

As an Energy Data Management System (EDMS), zenon can automate the recording of energy consumption data such as electricity, gas, and water. This data can be used to identify and achieve potential savings. You can reduce costs and, at the same time, ensure sustainability throughout the entire transportation network – whether at airports, in tunnel systems, in rail transportation, or in road traffic.

COMPLETE LOGGING AND DOCUMENTATION

zenon features a reliable archiving system, an integrated trend module, and an easy-to-use reporting function that offers a customized view of historical data. Full logging provides you with all necessary data for decision making and ongoing optimization. In addition, you will benefit from fully automated electronic documentation – so there's no need for manual or paper checklists.

OUR SOLUTIONS FOR SMART CITIES:

SMART BUILDINGS
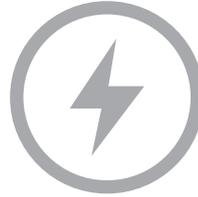
ENERGY

WATER & WASTEWATER

PUBLIC TRANSPORT & TRAFFIC

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