



**zenon**  
by COPA-DATA



# Get Public Transportation Moving

*zenon provides substation and tunnel automation  
in public transportation and offers comprehensive  
reporting for energy data management.*



## zenon Energy Edition – Use in Public Transportation

*Use zenon for public transportation. The solution is useful for both the automation of substations in rail traffic as well as the control of tunnel backup systems. Furthermore, zenon offers SCADA functionalities for public transportation control rooms. Comprehensive reporting possibilities support energy management in the transport field. With zenon, you benefit from quick project configuration, easy operation and maximum security.*

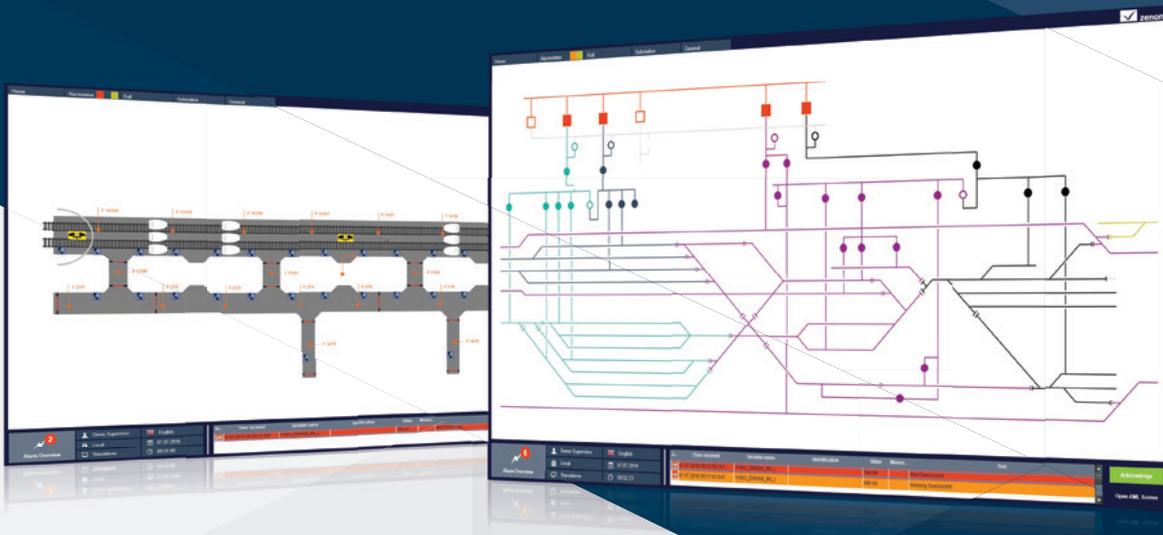
With zenon, rail power networks are controlled and maintained easily and economically. The system supports project configuration and automated control of substations in rail power networks. A further area where it can be used is the monitoring of auxiliary systems in rail tunnels, such as the emergency power supply or fire alarm systems.

### **ENGINEERING – CONFIGURE PROJECTS QUICKLY AND WITHOUT ERRORS**

A person creating a project must create many identical objects, such as those for transformer bay and feeder bay.

This is time-intensive and the monotonous work can lead to errors. Thanks to the object orientation and the substitution mechanism in zenon, elements can be very easily reused. Symbols need only be drawn once and these can then be administered at a central point.

The Command Sequencer is for simple project configuration and the implementation of automated substations. You can use it to configure command sequences instead of programming them. They do not need to be repeatedly entered manually. This allows intuitive operation, gives you an overview and avoids errors in command input.



## SECURITY FROM THE START

For example, you can integrate interlockings – from simple process interlocking to automatically-calculated topological interlocking – easily, by means of central configuration in a system. Automatic interlocking checks carried out by the topological check in zenon ensure increased security and availability.

## INTEGRATED COMMUNICATION PROTOCOLS

The creator of the project need not be familiar with and master the protocol-specific properties for the control of switching devices because the communication protocols, including the command, are integrated into zenon. zenon thus makes engineering easier, supports error-free configuration and ensures ergonomic operation.

## SECURITY AND COMPLIANCE

The user administration in zenon protects you from unauthorized access. Command processing is linked to the user administration, so that only authorized employees can enter commands. This ensures maximum security against unauthorized access and complies with official regulations.

## IEC 61850 AND MORE

zenon supports all common communication protocols in the energy industry. For example, zenon sends data using a protocol (IEC 61850, IEC 60870, DNP3) to the higher level control center directly, making an RTU unnecessary.

## THE TUNNEL UNDER CONTROL

zenon is an open system that supports different technologies and third-party systems without a further interface or system level. In addition to standardized communication protocols, you can also incorporate ActiveX controls, .Net controls and WPF controls. zenon is thus ideally suited as a monitoring system for railroad tunnels. You can read in data from various sources, including emergency power equipment, camera systems, lighting, intercoms or fire alarms.

## COMPREHENSIVE FUNCTIONALITY

Further functions are comprehensive visualization possibilities, easy reporting, legally-compliant archiving alarm message lists and much more. zenon thus makes the operation of railroad networks simple and ergonomic.

## OUR SOLUTIONS FOR THE ENERGY INDUSTRY:



HYDRO POWER



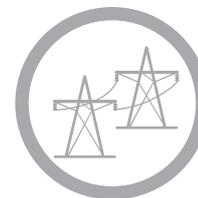
PUBLIC  
TRANSPORT



RENEWABLES



ENERGY STORAGE



DISTRIBUTION  
MANAGEMENT  
SYSTEM



SUBSTATION  
AUTOMATION

## GET IN TOUCH:

[energy@copadata.com](mailto:energy@copadata.com)  
[www.copadata.com/contact](http://www.copadata.com/contact)



[linkedin.com/company/copa-data-headquarters](https://www.linkedin.com/company/copa-data-headquarters)  
[facebook.com/COPADATAHeadquarters](https://www.facebook.com/COPADATAHeadquarters)  
[twitter.com/copadata](https://twitter.com/copadata)  
[xing.com/companies/copa-data](https://www.xing.com/companies/copa-data)  
[youtube.com/copadatavideos](https://www.youtube.com/copadatavideos)

© Copyright 2018, Ing. Punzenberger COPA-DATA GmbH. All rights reserved. This document may not be reproduced or photocopied in any form (electronically or mechanically) without a prior permission in writing from Ing. Punzenberger COPA-DATA GmbH. The technical data contained herein have been provided solely for informational purposes and are not legally binding. Subject to change, technical or otherwise. Registered trademarks zenon™ and zenon Analyzer™ are both trademarks registered by Ing. Punzenberger COPA-DATA GmbH. All other brands or product names are trademarks or registered trademarks of the respective owner and have not been specifically earmarked. We thank our partners for their friendly support and the pictures (www.istockphoto.com) they provided.



**COPADATA**