



# DNP3 / IEEE Std 1815-2012™ with zenon

## High performance communication with zenon as a DNP3 master/slave



### EFFICIENT ENGINEERING

zenon is designed to make your engineering as quick and efficient as possible. This saves you time and helps you design projects that meet the highest standards in reliability, security and usability.

- ▶ Simple engineering of the command direction, as the system can independently read the control module and manage the command mechanism either automatically or step by step, according to which functions are applied.
- ▶ The communication engineering is completely integrated in the SCADA development environment (zenon Editor). The connected components can be read directly, thereby enabling the variables to be automatically set up.

### HIGH QUALITY SOFTWARE

In our headquarters in Salzburg, Austria, expert developers and quality assurance professionals ensure product development and quality assurance meet the highest standards in reliability and security. This is also true for all our drivers and supported protocols. Certificates like the KEMA certificate for our IEC 61850 driver prove our quality standards.

With our extensive experience in driver development, any additional desired functionality can be quickly developed and integrated into zenon to meet your specific requirements.

### SUPPORT AND CONSULTING

Local support and consulting and the back-up of a global network of experts in the Energy Industry ensures you'll always have a superior experience in serving your customers. With over 10,000 installations, zenon is firmly established in the Energy Industry.

### FAST FACTS

- ▶ zenon supports quick and efficient engineering
- ▶ zenon is setting industry standards in reliability and security
- ▶ COPA-DATA is your experienced partner with over 10,000 installations in the Energy Industry



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### Facts & Features

- ▶ Driver acts as Master
  - ▶ Serial + TCP/IP communication
  - ▶ Independent configuration of event-poll interval for class 1-3
  - ▶ Reading of points not assigned to class 0 or event classes
  - ▶ unsolicited responses
  - ▶ Configurable integrity poll interval
  - ▶ Configurable time synchronization for LAN / non-LAN
  - ▶ Supports Realtime stamping
  - ▶ Secure authentication v2
  - ▶ dual endpoint communication
  - ▶ online import of DNP points from outstation via class 0 poll
  - ▶ offline import of DNP points via XML device profile
  - ▶ DNP3 conformance level 1 for Requests, level 2 for Responses + additional functionality of level 3 and above
  - ▶ Supported Object Groups: 0, 1, 2, 10, 12, 20, 21, 22, 23, 30, 32, 40, 41, 60, 110 (detailed Information see Device Profile of driver)7
  - ▶ Configurable time outs for responses and keep-alive
  - ▶ Explicit read of points with specific variation
  - ▶ Configurable IIN1.1, IIN1.2 & IIN1.3 response behavior
  - ▶ UTC / local time support
  - ▶ Secondary IP-Address with automatic switch-over
  - ▶ Manual trigger of static and event class polls
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