# DNP3 / IEEE Std 1815-2012™ with zenon

## High performance feature rich communication with zenon as a DNP3 master



### 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.

▸ The zenon DNP3 master is compliant with Subset Level 1, 2, 3 and 4 as specified in IEEE Std 1815-2012.

▸ Additional functionality beyond Subset Level 4 is supported.

▸ Secure Authentication v5 is supported for devices compliant to the current IEEE Std 1815-2012 standard. For devices compliant to IEEE Std 1815-2010 the DNP3_TG driver also supports Secure Authentication v2.

▸ DNP3 File transfer is supported for reading and writing files.

▸ The DNP3 master fully supports the command processing in the zenon Runtime.

▸ Variables can be created automatically from online and offline points import.

▸ Advanced statistics allow monitoring of the communication

### 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 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. For the third generation DNP3 driver, COPA-DATA has developed its own DNP3 stack and further expands its know-how of communication standards used in the Energy Industry.

### 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 20,000 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 20,000 installations in the Energy Industry

zenon
DNP3
© Ing. Punzenberger COPA-DATA GmbH

# DNP3 / IEEE Std 1815-2012™ with zenon

High performance feature rich communication with zenon as a DNP3 master

Facts & Features

▸ DNP3 Master
▸ Serial, UDP and TCP/IP with dual endpoint
▸ Flexible configuration of event class polls
▸ Reads of single object groups supporting all variations
▸ Configuration of Unsolicited Responses
▸ Configurable integrity poll interval with optional wait time
▸ Configurable time synchronization for LAN/non-LAN procedure
▸ Supports Realtime stamping
▸ Secure authentication v2 and v5 with pre-shared keys
▸ Configurable TCP disconnect after IDLE timeout
▸ Online import of DNP points from an outstation via class 0 poll
▸ Offline import of DNP points via XML device profile
▸ Subset level 1,2,3,4+ master
▸ Detailed communication statistics
▸ Configurable time outs for responses and keep-alive
▸ Select before Operate, Direct Operate and Direct Operate no response
▸ Configurable IIN1.1, IIN1.2, IIN1.3, IIN1.4 and IIN2.3 response behavior
▸ Configurable time base (UTC/local)
▸ Secondary IP-Address with automatic switch-over
▸ Manually trigger static/event class polls, enable and disable unsolicited responses
▸ DNP3 File transfer with support for READ, WRITE, DELETE, ABORT
▸ Based on the COPA-DATA developed DNP3 stack