



CODESYS Corporation

CODESYS® in the Energy Industry **DNP3 in IEC 61131-3 Software Suite** **for controlling power, grid & renewables**



CODESYS ENERGY



CODESYS WITH DNP3 OFFERS FLEXIBILITY AND FUNCTIONALITY THAT GOES FAR BEYOND CONVENTIONAL COMMUNICATIONS PROTOCOLS

The new CODESYS DNP3 library enables communication using the DNP3 protocol in CODESYS control applications. A CODESYS application running on a controller can be configured and used as a DNP3 outstation.

The CODESYS DNP3 extension includes a CODESYS library that provides IEC function blocks for configuring the DNP3 protocol and mapping inputs and outputs to DNP3 communication objects.

CODESYS DNP3 is designed to optimize the transmission of data acquisition information and control commands from one computer to another using serial and IP communication, intended to interface CODESYS control systems to SCADA (Supervisory Control and Data Acquisition) applications.

CODESYS DNP3 SL is available in the CODESYS North America store for CODESYS Control for Linux, V410.0.0 or higher.

DNP3 IN THE INDUSTRY



DNP3 USE CASE

A typical utility or electric power application has operations center that monitors the equipment at each of its substations. Substations have many devices that need to be monitored, such as switches, current sensors, and voltage transducers. That's just a tip of the iceberg: a utility is interested in monitoring many other parameters from many more device types.

DNP3 is a widely used protocol that defines common rules for communication between substation and control center computers. The CODESYS DNP3 SL runtime extension and the IEC61131-3 library allow integrating CODESYS control applications as substations directly with the operations center through the DNP3 protocol. CODESYS applications can control and monitor underlying devices like switches or breakers, perform local control operations, show HMI displays, and report their data to higher-level SCADA systems.

CODESYS Control for Linux can run on any Industrial PC as well as on servers in virtualized environments, making it universal to deploy. CODESYS can also bridge between various fieldbus protocols, or interface with almost any external software application running on the same platform, for example, to integrate data loggers, data analyzers, AI functions and many more.

A CODESYS extension for IEC60870-5-104 server is available in the CODESYS North America store (US.Store.CODESYS.com) in addition to or as an alternative to DNP3.



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