

Testing tools for legacy protocols

DNP3 • IEC101 • IEC103 • IEC104 • ModBus • SPA-bus

Currently supported protocols:

- DNP 3.0,
- IEC 60870-5-101 (balanced and unbalanced),
- IEC 60870-5-103,
- IEC 60870-5-104,
- ModBus,
- SPA-bus.

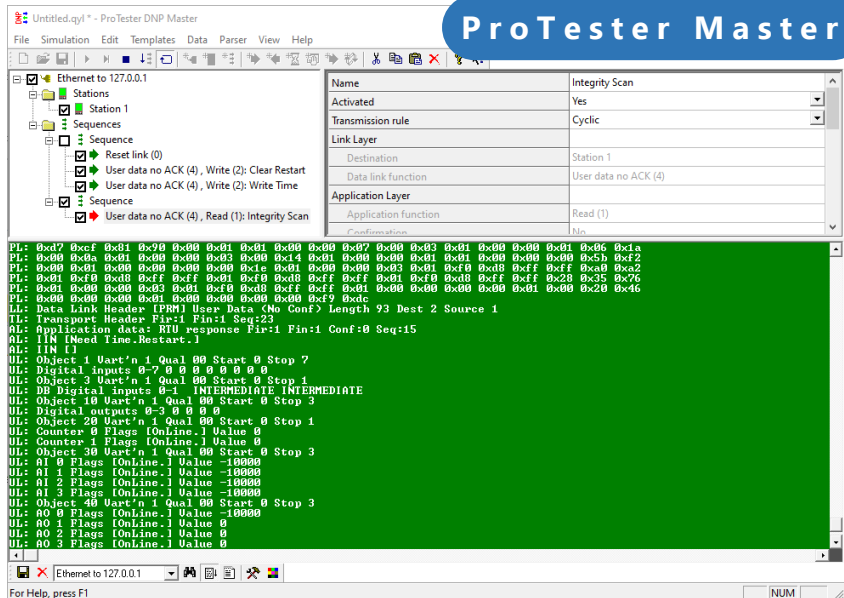
Common functionalities:

- Applicable on serial lines and Ethernet.
- Message exchange visualization with protocol layer filters.
- Extensive message logging.

ProTester Master - fully configurable behavior of master station including requests, responses, time dependencies, user actions etc. - unique features compared to competitive tools available on the market.

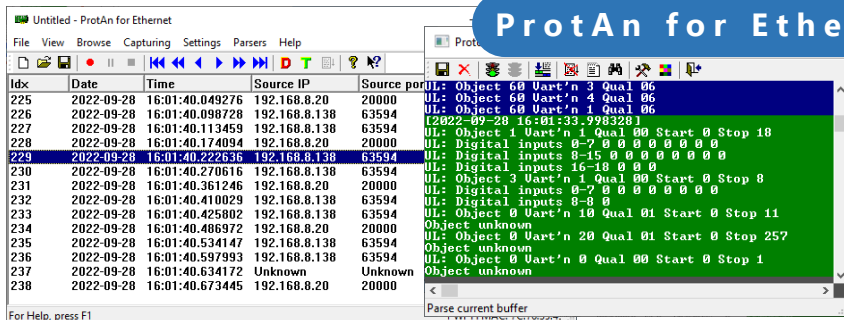
ProtAn for Ethernet - Industrial Protocols Analyzer.

ProTester Slave - fully configurable behavior of slave station including data space definition, automatic and manual data changes, generation of events, time dependencies etc. - unique features compared to competitive tools available on the market.



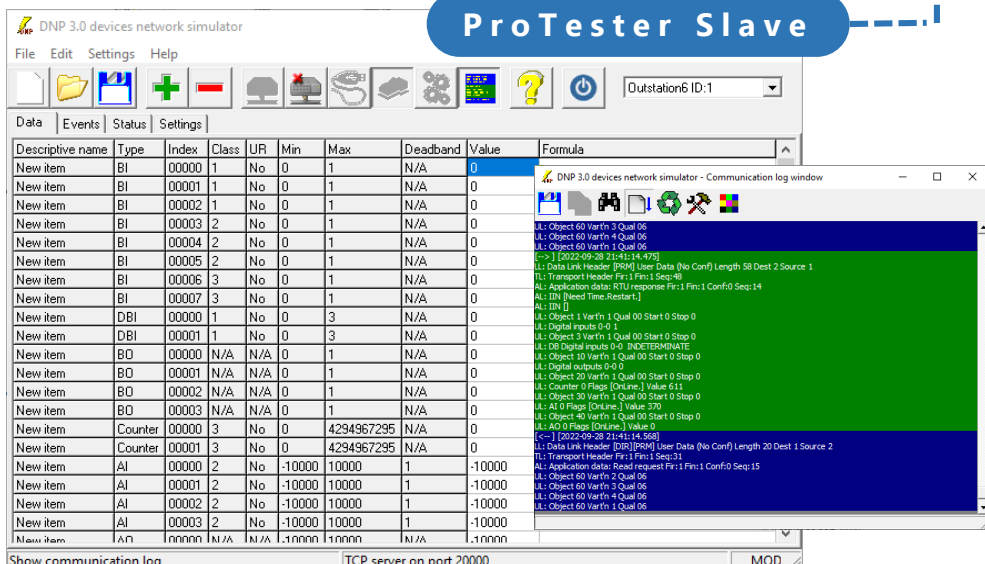
ProTester Master

IEC 60870-5-103
IEC 60870-5-104
DNP 3.0



ProtAn for Ethernet

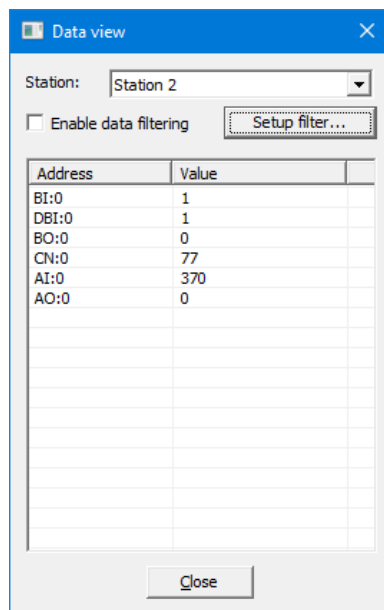
Modbus
SPA-bus



ProTester Slave

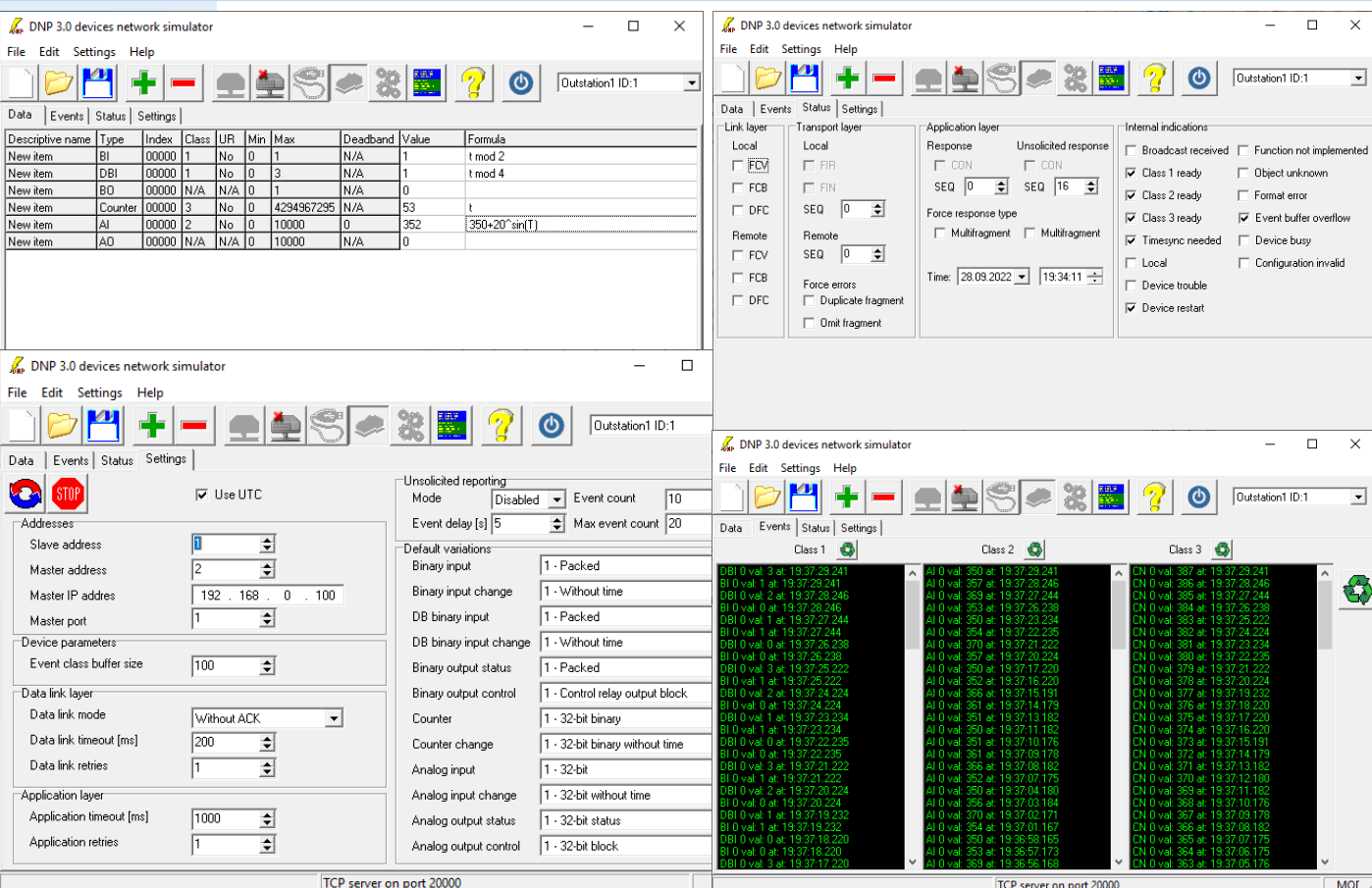
ProTester Master

- Graphical view and editing of network configuration and transmitted message sequences.
- Flexible configuration of test sequences:
 - master queries, pre-defined or automatic master responses,
 - configurable inter-message delays,
 - configurable user prompts for test progress tracking.
- Multiple modes of operation for the defined message sequence:
 - cyclic transmission, one shot, step by step,
 - user-defined or automatic link layer handling.
- Extensive support of negative test cases:
 - possibility of enforcing errors into master messages,
 - possibility of overriding the contents of every message field.
- Statistics per each slave (queries, responses, errors).
- Selective data view.



ProTester Slave

- Excellent and easy to use simulator of communication performance for multiple slave / server IEDs based on the user defined data maps.
- Simulation of data values and their quality can be driven manually, using formulas and time variable
- Views of data values, events and device status.



ProtAn

- Real-time analysis of Ethernet based communication with the following protocol parsers: DNP3, IEC 60870-5-104, Modbus, universal.
- Easy to set up.