Axon Group | XAG TEST6

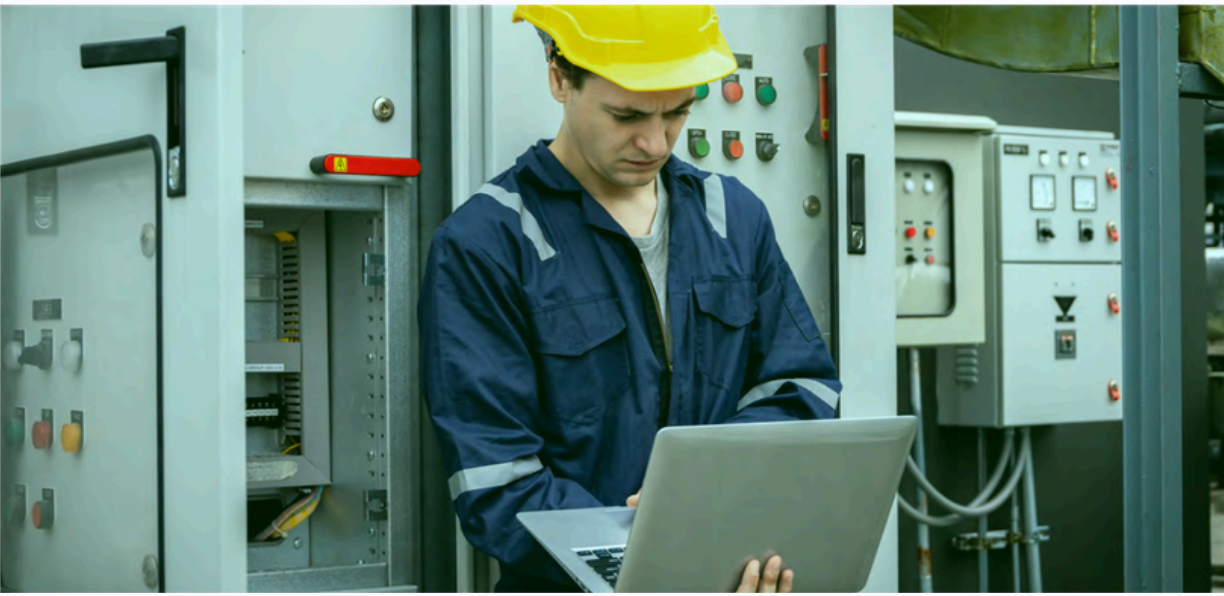
Multiprotocol platform for automated simulation and testing.

AXON TEST

SCADA / IHM

It is software for automating tests with multiple IEDs, SCADA systems, or control center software based on the DNP3, IEC 60870-5-101, IEC 60870-5-104, OPC, and Modbus protocols. It allows the simulation of multiple client or server devices via serial and Ethernet channels. It facilitates communication logging and analysis, generating reports on received data or protocol traffic traces.

It is a versatile and descriptive tool that maximizes productivity during Factory Acceptance Tests (FATs) in automation processes. This simulator includes additional tools for connectivity testing and diagnostics, such as IP Scanner, Telnet, and a generic server emulator using serial and TCP/IP protocols. It facilitates the visualization of signal states, as well as the sending of predefined or custom commands using the features of each protocol.



Benefits



Unlimited support for 10 years.



Intuitive tool.



Traffic tracing windows with message descriptions.



Simultaneous simulation of multiple connections with IEDs.



Displaying statuses and sending custom commands.



Auto-simulation functions for signals in slave devices.

Generalities



It allows you to export the data on the tests performed.



It allows teachers to execute different types of commands.



It contains different filters for locating the signals.



The Viewer tool makes it possible to display the data of the signals configured with parameters such as: Timestamp, name, description and quality.



The Trace tool allows tracking the exchange of information frames between devices, with the purpose of diagnosing the state of communications.



Signal avalanche generation. Ease of testing and analysis of communications.

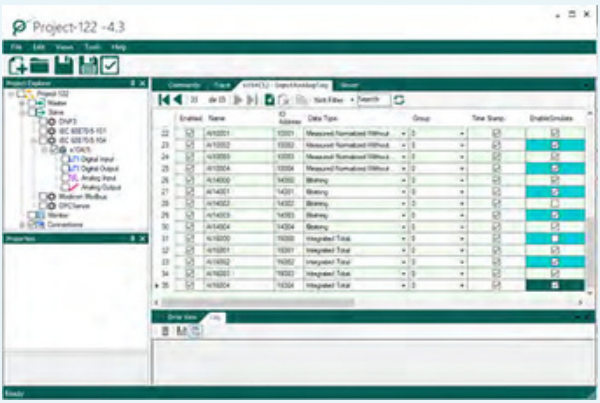
Features

Configuration

Creating connections for both master and slave devices also allows for the creation and description of the signals to be tested. For master devices, signal creation is not necessary for IED simulation, but it helps identify the signals to be verified.

It features a master/slave protocol tree; on the left side of the interface, all the configuration options for each added IED are displayed. In this section, you can configure: connection parameters, input/output signals with their respective addresses.

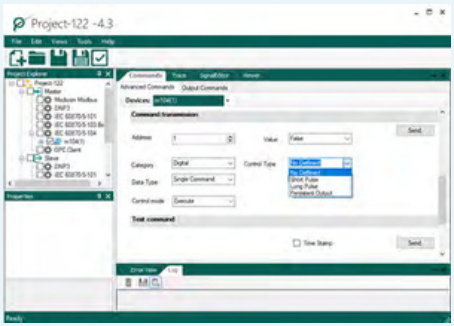
For slave devices, each of the signals has self-simulation properties, a feature that allows configuration individually or in different groups of variables at the same time.

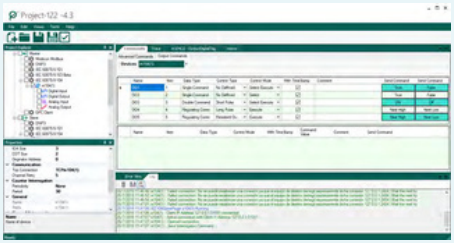


Features

Commands

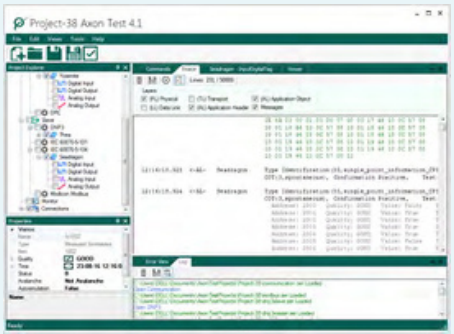
It allows you to manage captured files through a set of user-customizable rules. The information can be organized in an output directory using a hierarchical structure.
Additionally, there is a file renaming function defined by the C37.232-2011 standard - IEEE Standard for Common Format for Naming Time Sequence Data Files (COMNAME).





Trace

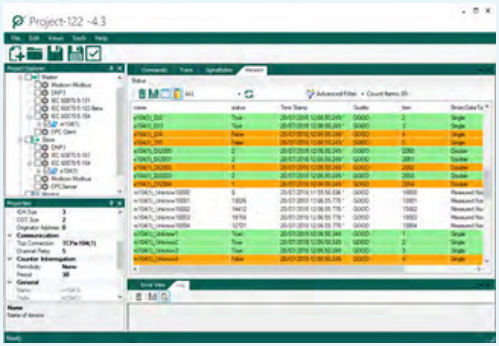
This tool allows tracking the exchange of information frames between devices, with the purpose of easily and simply diagnosing the state of communications, due to the treatment performed on the communication frames, which are decomposed and analyzed, using filters to improve their readability.



Features

Viewer

- Display the data of the signals configured on a slave, with the parameters according to the configured protocol, including: timestamp, name, description, quality.

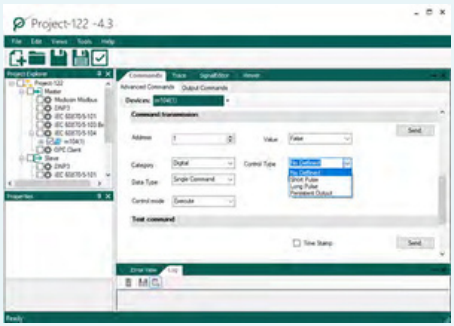


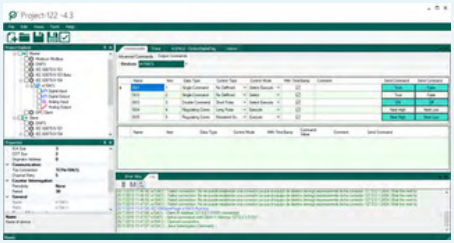
- Visualize the data of the signals that a master device receives.
- Run filters on the signals displayed in the viewer to select those of interest to the user.
- Visualize digital signals in colors according to their value in order to facilitate their detection.
- Forcing a change in the value and quality of a slave signal is simulation.

Features

Commands

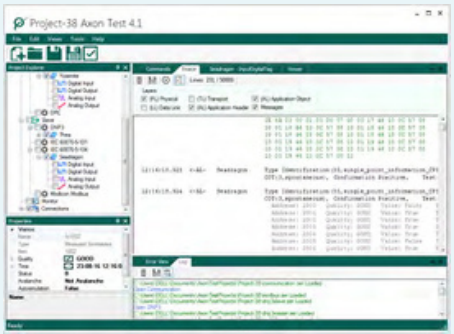
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Trace

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Technical specifications

Discharge

Axon Test has two licensing options: the first is an application activation serial number, and the second is a hardware license (USB Dongle).

Protocols

- DNP3 LAN/WAN (Master/Slave) DNP3
- serial (Master/Slave)
- • IEC 60870-5-104 (Master/Slave)
- • IEC 60870-5-101 (Master/Slave)
- Balanced/Unbalanced
- • Modbus LAN/WAN (Master/Slave)
- Modbus Serial (Master/Slave) OPC DA
- (Client - Server)

Tools

Trace
• Viewer
• Signal state change
• Advanced Commands Event Panel
• Error panel
• Advanced filter bar
• Output commands

System requirements

Operating system	Windows 10 o superior.
RAM Memory	2GB
Hard drive	500 MB free storage.
Processor	1.5GHz
Framework	Microsoft .NET 4.5 / 4.5.2 SP2 Visual C++ 2013, Visual C++ 2015



Axon Group Benefits

Fast and timely support:
Support center in your language and time zone.

Free updates
New versions included for customers with a current license.

Delivery in one week
Easy and quick setup, with personalized service and training.

Axon Group | XAG TEST6

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