



NetDecoder™

Industrial Communications Analyzer

Key Features and Benefits

- Captures, decodes, timestamps, filters and displays data, and detects protocol errors (indicated in red) simultaneously, all live and in real-time
- Data is also displayed in binary, octal, hex, and ASCII
- Familiar tree (Explorer style) protocol decode display with single-click protocol filtering
- Session notes and annotated bookmarks allow for quick identification of questionable messages
- Log data to single or multiple files
- Reduce downtime and increase uptime
- Improve network performance
- Improve network security
- Improve network maintenance
- Perform faster and more efficient network installations
- Rapidly develop industrial control and SCADA network products
- Perform better in conformance testing of your network products

NetDecoder is a passive and easy-to-use network monitor that helps less-skilled troubleshooters understand what is happening on their communications networks.

When something goes wrong with your industrial network, spending time and resources trying to diagnose and resolve the problem is very costly.

With NetDecoder, you can learn about impending problems before they occur. It's an intuitive, passive network monitor and trouble-shooting tool that offers high level views of your network activity and helps you understand your communications traffic.

In an environment that demands deterministic control and information exchange, having the right tool to help you understand your network activity is absolutely critical. And that is just what NetDecoder delivers for a broad range of serial, Ethernet and industrial protocols and buses.

NetDecoder's Dashboard View, Network View Network View, Statistics Display and Frame Display are intuitive, easy to read, and quickly provide a wealth of information about the network. Although NetDecoder is simple to work with, it does provide a level of sophisticated and detailed information demanded by today's network specialist.

NetDecoder's Node Statistics

Network View enables you to see statistics on specific nodes including communications traffic details and node information for active nodes on the monitored side of the switch.

Individual Active Node Information:

- Packets Transmitted and Received
- Bytes Transmitted and Received
- DNS Names
- Nodes In and Out
- Utilization Information
- Broadcast Information
- IP Address and MAC Address
- Named MAC Address
- NetBios Name
- Assigned User Friendly Names for Each Node

Together with our comprehensive line of USB hardware interfaces, Frontline's NetDecoder protocol analyzer monitors and provides detailed timing, data, and messaging information for a wide range of communications protocols.



Specifications

Product Highlights:

PC-based Industrial Communications analyzer supports serial, Ethernet & industrial buses

Serial

DF1/PCCC IEC 60870-5-101
 Modbus RTU IEC 60870-5-103
 Modbus ASCII BSAP Bristol Babcock
 DNP3 ABB COMLI
 BACnet Emerson ROC
 IEC-60870-5-102 Saia-Burgess S-Bus
 CC-Link

Ethernet

Modbus/TCP EC 60870-5-104
 PROFINET CC-Link IE
 DNP3
 EtherNet/IP (includes CIP and PCCC
 Allen-Bradley CSP/PCCC

Industrial

DeviceNet
 ControlNet
 Allen-Bradley DH-485
 Allen-Bradley Data Highway Plus

System Requirements

Pentium 1 GHz or faster
 Windows 7, 8.1, and 10 (32-bit & 64-bit)
 RAM: 1 GB minimum, 2 GB recommended
 50 MB free hard disk space
 One USB 2.0 Port
 Industrial buses require additional hardware

Suggested Uses:

- Check network health before adding a new device or changing a configuration
- Diagnose device communication problems
- Survey and benchmark existing networks to track network performance over time
- Commission new networks and network expansions
- Ideal for:**
 SCADA Engineers
 System Integrators
 Network Engineers
 Maintenance Engineers
 Field Service Personnel

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Message Summary

Message Stream

See actual command and reply data.

The Network View displays the nodes on the network from the point of view of the network tap. Includes byte and packet statistics.

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