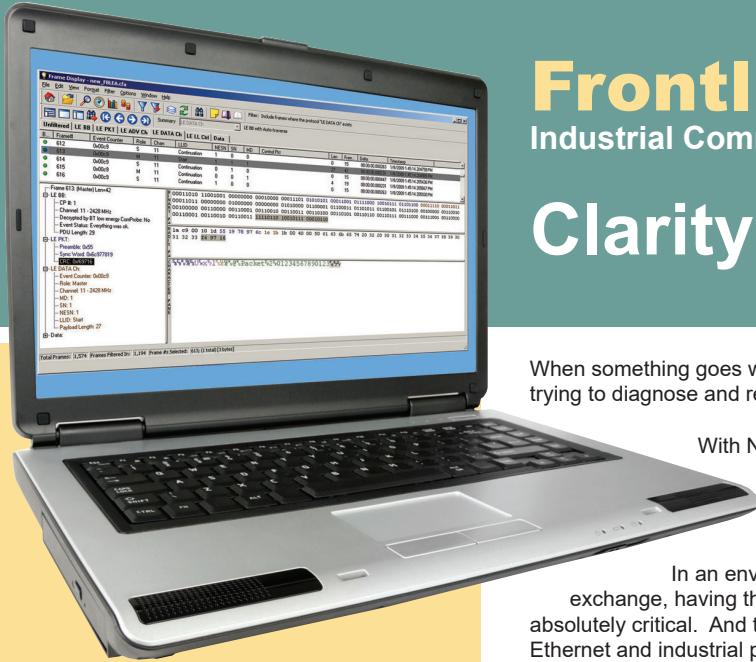


Frontline NetDecoder™

Industrial Communication Analyzer

Clarity from Complexity



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 troubleshooting 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.

Use the same tool Rockwell Automation Network Services engineers use globally.

Product Highlights:

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

Serial

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

Ethernet

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

Industrial

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

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

NetDecoder

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

- SCADA Engineers
- System Integrators
- Network Engineers
- Maintenance Engineers
- Field Service Personnel

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



Benefits

- 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

Partial User List

- Rockwell Automation
- Sunoco Logistics
- General Motors
- ExxonMobil
- Northrup Grumman
- Weyerhaeuser
- DTE Energy
- Cooper Power Systems
- Duke Energy
- Enbridge



PC 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

For more information, or to request an evaluation:
fite.com/NetDecoder

NetDecoder™

Industrial Communication Analyzer

Key Features

- 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.

The screenshot shows the 'Frame Display' window with a table of captured frames. A red callout box labeled 'Message Summary' points to a row in the table. Another red callout box labeled 'Message Stream' points to the binary and hex data below the table. A third red callout box labeled 'See actual command and reply data.' points to the hex data.

Frame#	Source	Destination	Type	Function	Address	Number	Value	Frame Size	Date	Timestamp
2,366	161.218.167.40	161.218.167.41	Normal	ReadHoldingRegisters	6950	60	70	00:00:00:015674	9/17/2010 3:24:18.580004 PM	
2,367	161.218.167.41	161.218.167.40	Normal	ReadHoldingRegisters	6950	70	187	00:00:00:000007	9/17/2010 3:24:18.586011 PM	
2,368	161.218.167.40	161.218.167.41	Normal	ReadHoldingRegisters	6950	30	70	00:00:00:000006	9/17/2010 3:24:18.590017 PM	
2,369	161.218.167.41	161.218.167.40	Normal	ReadHoldingRegisters	6950	23	70	00:00:00:000006	9/17/2010 3:24:18.596023 PM	
2,370	161.218.167.40	161.218.167.41	Normal	ReadHoldingRegisters	6950	23	70	00:00:00:015668	9/17/2010 3:24:18.601491 PM	
2,371	161.218.167.41	161.218.167.40	Normal	ReadHoldingRegisters	6950	23	70	00:00:00:000006	9/17/2010 3:24:18.607498 PM	
2,372	161.218.167.40	161.218.167.41	Normal	ReadHoldingRegisters	6950	23	70	00:00:00:000006	9/17/2010 3:24:18.613505 PM	
2,373	161.218.167.40	161.218.167.41	Normal	ReadHoldingRegisters	6950	23	70	00:00:00:000006	9/17/2010 3:24:18.619512 PM	

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.

The screenshot shows the 'Network View' window displaying a network diagram with nodes and connections. A red callout box labeled 'The Network View displays the nodes on the network from the point of view of the network tap. Includes byte and packet statistics.' points to the diagram.

To order or for more information:
www.fte.com
frontline_onlinesales@teledyne.com
 1.800.359.8570 US & Canada
 +1.434.984.4500
 Fax: 434.984.4505

