

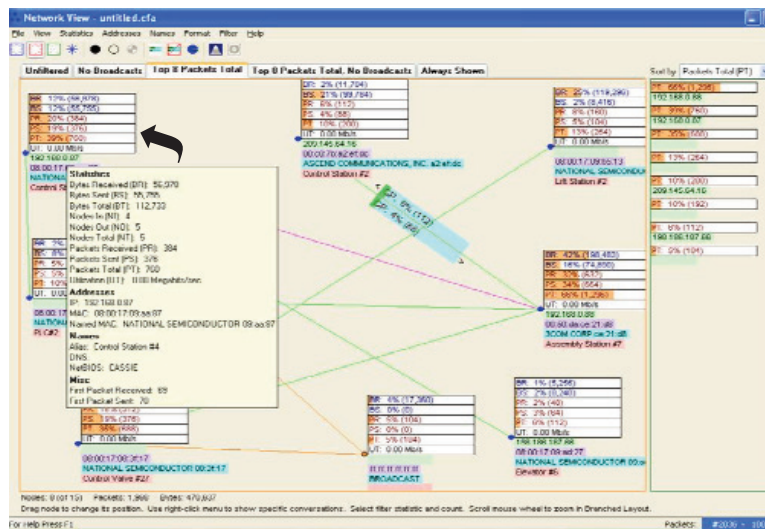
# NetDecoder™ Industrial Network Monitor

**CONTROLNET &  
 PROFINET  
 DECODERS NOW  
 INCLUDED**

## NetDecoder's New Network View For Ethernet Provides a Window Into Network Activity

### SCADA, Modbus, Ethernet & ControlNet

Frontline's NetDecoder Communications Analyzer is a PC based Industrial Control and SCADA protocol, data and timing analyzer. NetDecoder is designed to monitor, identify and isolate communications and timing issues on devices utilizing Serial, Ethernet and Industrial Bus communications. Benefiting from this tool are Industrial and SCADA engineers, System Integrators, Network Engineers, Maintenance Engineers and Field Service personnel.



### NetDecoder Node Statistics

NetDecoder's new 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

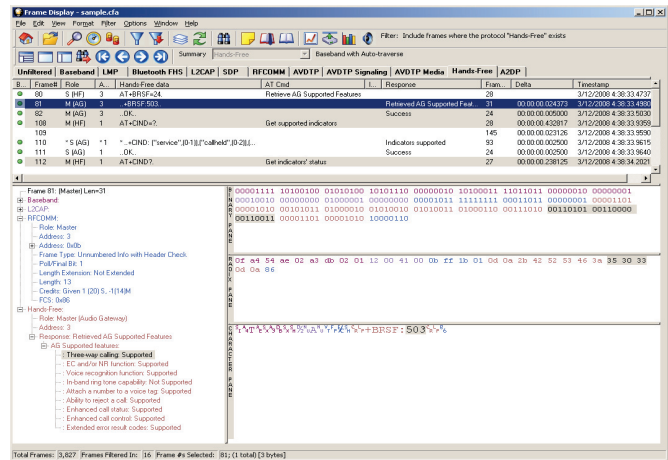
- Packets Transmitted and Received
- Bytes Transmitted and Received
- DNS Names
- Nodes In and Out
- Utilization Information
- Broadcast Information
- IP Address and MAC Address
- Named MAC Address
- NetBios Name
- Assign User-Friendly Names for each Node

## NetDecoder Does Communications Message Decoding for Serial, Ethernet and Industrial Bus

### Protocol Decoding - Frame Display

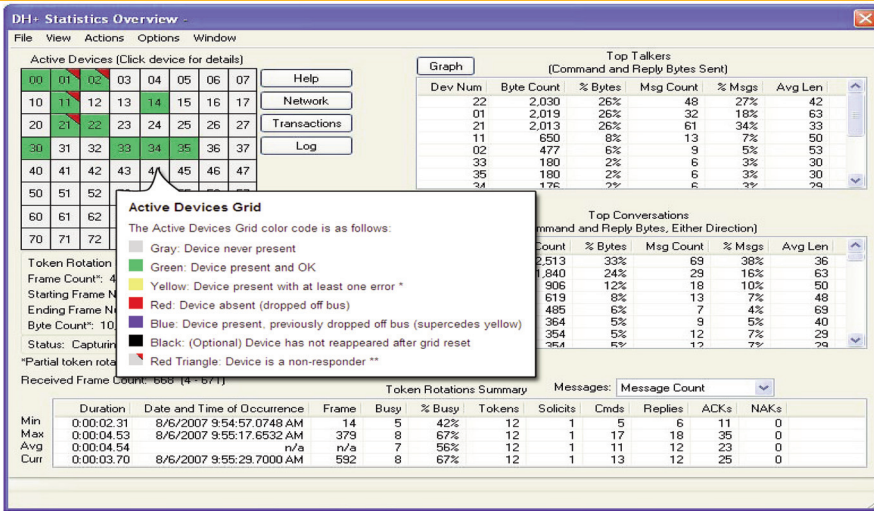
The detailed information in the **Frame Display** window is presented clearly and with as much, or as little, detail as you need.

- Summary Information for Messages Sent and Received
- Message Frame is Decoded into Text
- Protocol Errors Identified with Red Frame Numbers
- Message is Shown in Binary, Octal, Hex and ASCII
- Capture Filters Limit the Amount of Data Captured
- Display filters include:
  - Pre-Set Filters,
  - Node Information Filters,
  - User Defined Complex Filters
- Side-by-Side Comparisons with Multiple Display Windows
- For Custom Decodes use the included FrameDecoder® Development Kit



In an environment that demands deterministic control and information exchange, understanding the network activity is critical. NetDecoder DH+ network analyzer quickly helps you understand device errors, loading, throughput, and overall performance of DH+ networks as well as the DH+ communications itself.

## Data Highway Plus Statistics Overview Display



### Active Device Grid

- Identify Active Devices
- Identify Devices with Problems

### Device Statistics

- Top Talkers
- Top Conversations
- Top Listeners
- Node Transaction Summary

### Network Statistics

- Token Rotation Timing
- Network Event Log
- Bytes Sent
- Busy Tokens

## Application Notes

With more Serial to Ethernet converters being utilized, did you know that you can run both the NetDecoder Serial and Ethernet analyzers at the same time to view data on both sides of the converter.

With some serial applications running different transmit and receive baud rates, did you know that you can set the NetDecoder Serial Analyzer to work with a different baud rate on each serial port.

## Protocol Analysis Expertise

With over sixteen years of experience developing protocol analysis tools, Frontline (est. 1985) is a proven protocol analyzer industry leader. NetDecoder is a member of the growing family of Frontline Test System® (FTS®) protocol analyzers, each of which incorporates a common user interface and the FrameDecoder protocol-decoding engine. FTS analyzers support serial, Ethernet, Bluetooth, ZigBee®, USB, and numerous industrial protocols and buses.

## NetDecoder: Monitor Your Mission Critical Communications

Our NetDecoder product includes Serial, Ethernet, and industrial bus protocols listed plus serial port Spy capability, serial speeds up to 921.6K bps, and one year of Premium Maintenance.

The Frontline FrameDecoder® Developer Kit is also included to assist you in writing your own custom decoders.

### Industrial Bus

DeviceNet  
Data Highway Plus  
DH-485/PCCC  
ControlNet

### Serial

BSAP  
DF1/PCCC  
DNP3 over serial  
Modbus ASCII  
Modbus RTU

### Ethernet

CSP  
DNP3 over Ethernet  
EtherNet/IP  
Modbus/TCP  
General Ethernet  
ProfiNet

### Your Application

Rockwell Automation

DNP3

Modbus

### NetDecoder Protocols

DF1/PCCC, EtherNet/IP, CSP, DH-485/PCCC, ControlNet, DH+, DeviceNet

DNP3 over Serial, DNP3 over Ethernet

ModBus RTU, Modbus ASCII, Modbus TCP

### User List (in part)

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

### Outstanding Technical Support

Whether you need help using a basic NetDecoder product feature, want Frontline's explanation of the protocol, or have a question on using FrameDecoder to write a decode, you can be assured of a response that is friendly, thorough, and timely.

NetDecoder includes premium maintenance that keeps you up-to-date with the latest industry specifications.

### PC System Requirements

- Windows XP
- 512 MB RAM
- 50 MB Hard Disk Space
- Ethernet port for sniffing Ethernet
- 1 or 2 serial ports for sniffing serial
- Industrial bus may require additional hardware

Copyright © 2007. All rights reserved by Frontline Test Equipment, Inc. Frontline, Frontline Test System, FTS, FrameDecoder and ComProbe are registered trademarks, and NetDecoder is a trademark of Frontline Test Equipment, Inc. All other trademarks are property of their respective owners.

Contact Info

www.fte.com  
**frontline**™

www.fte.com | sales@fte.com

1 (800) 359-8570 (U.S. & Canada)

+1 (434) 984-4500 | FAX +1 (434) 984-4505  
PO Box 7507, Charlottesville, VA 22906-7507 USA