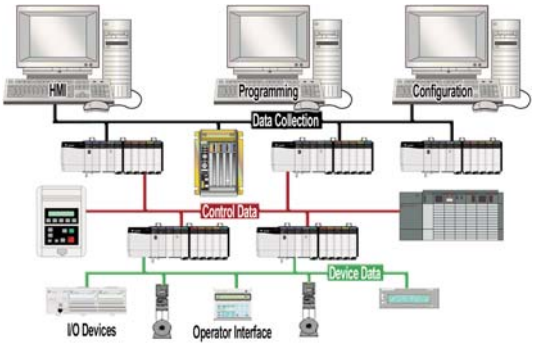
www.fte.com

frontline™

NetDecoder™ DH+
Industrial Communication Analyzer

Rockwell Automation
Encompass™ Product Partner
Americas

Optimize Networks. Isolate Comm Problems. Avoid Downtime.



On DH+ Networks, Timing is Everything

Until now, troubleshooting DH+ networks has been anybody's guess. **NetDecoder DH+** changes that. Frontline has worked closely with Rockwell Automation and their customers to build a tool that is specifically designed to isolate DH+ problems so that you can avoid downtime and improve output.

The issue with DH+ has always been that it is difficult to understand what is actually occurring on your network. Often, as long as the production line isn't down, nobody sees the need to risk changing the network configuration. The problem with this "If it ain't broke, don't fix it" approach is that it can lead to reduced output, intermittent operations, or even worse, total downtime.

NetDecoder provides a window into your DH+ network performance with both high level views and individual node performance and activity stats.

Do You Share These DH+ Problems?

- Many companies don't know how close to failure their DH+ networks are, but they do understand the cost of downtime.
- Because network performance can slowly decay over time, warning signs such as the slowing of button responses get ignored. It's too late when an empty bottle gets capped and the soda winds up on the floor.
- DH+ networks grow over time - sometimes years. People come and go, leaving an undocumented network that nobody actually understands.
- DH+ networks often are not designed to handle non-responders. Intermittent non-responding devices can have a significant impact on throughput.
- HMI software, while easy to use, often generates inefficient network traffic.
- Unneeded network messages = poor network performance = reduced productivity.

NetDecoder: Product Highlights

Product Summary

- PC-based Industrial Communication Analyzer
- Control Network Sniffer and Protocol Analyzer
- Supports Serial, Ethernet & Fieldbus

Suggested Uses

- Check network health before adding a new device or changing a configuration.
- Conduct a survey to determine network and node performance.
- Diagnose device communication problems.
- Survey and benchmark existing networks to track network performance over time.
- Commission new networks and network expansions.

Device Statistics

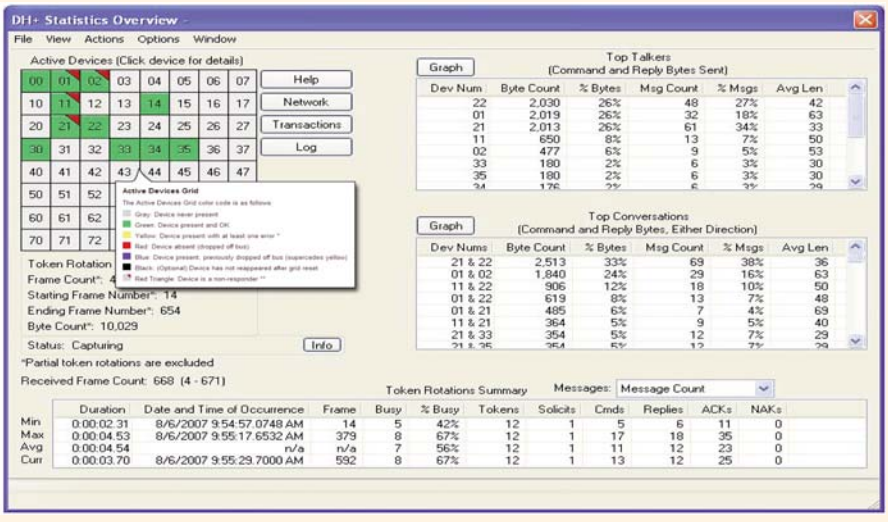
- Top Talkers
- Top Conversations
- Top Listeners
- Node Transaction Summary

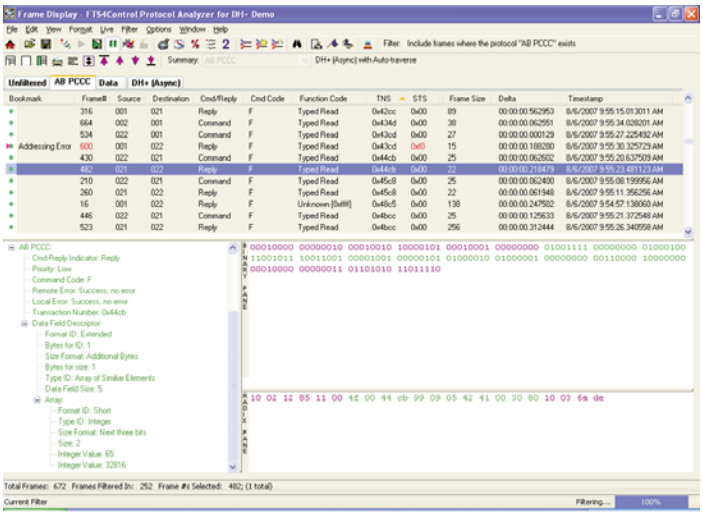
Network Statistics

- Token Rotation Timing
- Network Event Log
- Token Rotation History
- Token Utilization

NetDecoder: Built for DH+ Troubleshooting

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





DH+ Transaction Summary

- Individual Node Performance Information
  - Min, Max and Avg. Response Times
  - Counts of Commands Sent
  - Counts of ACKs and NAKs
- Displayed by
  - Message Count
  - Message Count Percentage
  - Byte Count
  - Byte Count Percentage

Outstanding Technical Support

Whether you need help using a basic FTS4Control 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.

FTS4Control includes premium maintenance that keeps you up-to-date with the latest industry specifications.

Get Control.

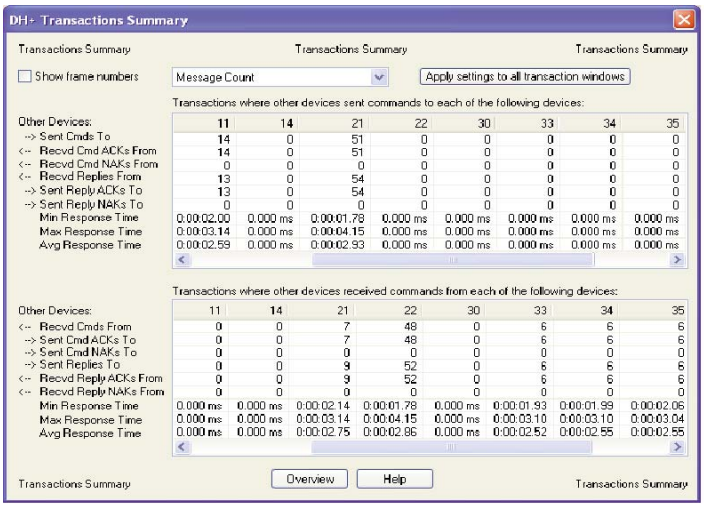
NetDecoder™

Industrial Communication Analyzer

FOR MORE GO TO WWW.FTE.COM

DH+ Protocol Decoding

- Summary of Messages Sent and Received with Timing
- Message Frame is Decoded into Text
- Protocol Errors have Red Frame Numbers
- Message Displayed in Binary, Octal, Hex and ASCII
- Display filters include: Pre-Set Filters, Node Information Filters, User Defined Complex Filters
- Side-by-Side Comparisons with Multiple Display Windows



FrameDecoder Developer Kit

included

Write custom decoders or modify existing decoders.

NetDecoder Library

Modbus RTU, Modbus ASCII, Modbus/TCP, DNP3 over serial, DNP3 over EtherNet, BSAP, DF1/PCCC, EtherNet/IP, CSP, DH-485/PCCC, DH+, ControlNet, CIP, DeviceNet, FrameDecoder Developer Kit

User List (in part)

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

Protocol Analysis Expertise

With over sixteen years of experience developing protocol analysis tools, and an installed base of over 30,000 analyzers, Frontline is a proven protocol analyzer industry leader. FTS4Control 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®, and numerous industrial protocols and buses.

Minimum PC Requirements

- 1GHz Pentium Processor or equivalent
- Windows XP
- 512 MB RAM
- 50 MB Hard Disk Space
- Ethernet port for sniffing Ethernet
- 1 or 2 serial ports for sniffing serial
- Fieldbus protocols may require additional hardware

NetDecoder_DH 030608

Contact Info

www.fte.com

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