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20Gbps Traffic Record and Replay on COTS server platforms

Hi-aXXess Technologies are pleased to announce that their partner nPulse Technologies breaks new ground with HammerHead Model 420 appliance

CHARLOTTESVILLE, VA, USA – March 30th, 2010 – nPulse Technologies, LLC, a leading developer of 10Gbps network sensors for monitoring, forensics and security applications, demonstrated the latest version of its HammerHead Capture and Replay appliance at FOSE last week.

The Model 420 can capture traffic, record it to disk and replay it at up to 20Gbps, allowing for full duplex recording of a fully-loaded 10Gbps link. Captured traffic is stored in standard PCAP file format for easy analysis by Wireshark or similar applications. Wireshark, the world's most widely-used network protocol analyzer and a reference standard in companies and institutions worldwide, is pre-installed on the HammerHead 420.

“We have been shipping our HammerHead 320 for over a year now, and its industry-leading 10Gbps record and replay performance is well proven in a diverse customer base, including the Federal Government, major contractors, and leading telecom industry manufacturers”, said Peter Shaw, Vice-President at nPulse Technologies. “The Model 420 is a natural next step for us and our users, offering greater speed, deeper storage and more capture ports”.

Kevin McGuinness, managing director of Hi-aXXess Technologies, adds “With such ground-breaking technological advances, nPulse Networks have once again shown themselves to be leading the pack in delivering appliances and applications that solve customers’ problems in a meaningful and affordable manner, thereby facilitating and accelerating the uptake of these technologies in key networking areas of performance benchmarking, monitoring, security, lawful intercept and troubleshooting.”

nPulse’s HammerHead Model 420, which includes four 10Gbps capture ports and up to 64TBytes of storage capacity, is available for shipping now.

nPulse Networks are represented in Europe by Hi-aXXess Technologies, a value-add reseller specializing in customised server platforms for the networking industry. For more information about HammerHead and related nPulse products, please visit www.hi-axxess.com.

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Packet Capture and Replay



Real World Network Testing at full 10Gbps
Ensure maximum network and application performance with HammerHead's capture and replay of real-world network traffic. Stress-test your network, exposing potential weak points and bottlenecks that could starve network performance, introduce security vulnerabilities, and increase operational costs.

HammerHead's advanced monitoring ports ensure 100% packet capture at 10Gbps line rate, regardless of frame size or protocol type. All packets are time-stamped to 10ns resolution then recorded to disk in standard PCAP format. Recreating a real-world 10Gbps traffic scenario is simply a matter of replaying part or all of the recorded traffic. HammerHead's replay tools ensure that packets are retransmitted with the same timing profile recorded at capture, preserving flow and protocol integrity.

By integrating a multi-threaded software architecture with the best in standards-based hardware technologies, HammerHead delivers a simple and truly affordable 10Gbps capture and replay solution.

Key Features

- Line-rate 10Gbps Ethernet traffic recording / standard PCAP format
- Line-rate 10Gbps Ethernet traffic replay of standard PCAP format
- Protocol independent, retaining full timing, content and flow integrity
- Optional, malicious traffic generator
- Capture and record up to 16TBytes of live traffic for replay
- Replay all or selected subsets of captured traffic
- Two 10Gbps Capture / Replay ports
- Standards-based hardware platform with multi-core processors
- Security-hardened, Linux-based kernel
- Browser-based GUI for application and configuration management

Technical Specifications

- 3U rack height
- Height 5.2" (132mm)
- Width 17.2" (437mm)
- Depth 25.5" (648mm)
- Approx. Gross Weight 100 lbs (45.5kg)

Lossless wire-speed capture / replay on both ports

- Line-rate for all frame sizes
- 14.8 Mpps per 10Gbps port

Precision packet timing for capture and replay

- 10ns resolution
- External time-sync option

Sustained write-to-disk performance

- 10Gbps aggregate across both ports
- Up to 16TBytes
- Minimum of 3.5 hours of recording

Dedicated management port (10/100/1000, RJ-45)

Target Applications

- Ensure functionality of 10Gbps network devices under full load
- Stress-test network devices / services to identify performance limits
- Confirm performance / reliability of new network deployments
- Verify the access control policies of security devices

Ordering Information

- **HH-304:** 4-port Gigabit, RJ-45 or Optical/SFP
- **HH-320:** 2-port 10Gbps, Optical/XFP

For more information visit: www.npulsenetworks.com



HammerHead Application

Partnering with leading telecommunications and internet network technology companies

