



nPulse Networks Portfolio Overview

nPulse Networks got its start as an extension of Luca Deri's nTop project (www.nTop.org). Luca's research has led to many open-source developments including nTop, a powerful NetFlow/IPFIX-based network monitoring tool. nTop has been proven and tuned through deployment in hundreds of major corporations and networks worldwide, and the time was right to bring it to the commercial market as a packaged and supported solution.

We also recognized the broader commercial potential of pairing top-notch open-source solutions with the extraordinary power and affordability of today's highly-flexible hardware. In November 2006, we announced the first in our family of high-speed network adaptor cards, offering unmatched packet capture and processing for 10/100Mbps and Gigabit networks.

Offloading repetitive, CPU-intensive tasks to hardware on these adaptors, releases valuable computing power on the host, allowing additional intelligence and new functionality to be built into software applications. The combination, for the first time, enables new, leading-edge solutions for network security, storage and network performance with all the power of the best proprietary systems, but at a fraction of the cost.

This is the vision that we bring to our customers. Our founders have many years of experience in open-source software development, high-speed hardware design, network monitoring and security. We know what our customers want and how to deliver it.

nPulse Networks is headquartered in the USA in Reston, VA. The company also maintains research and development facilities in Pisa, Italy and in Charlottesville, Virginia.

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At nPulse Networks, we understand that our customers are looking for high-performance, attractively-priced solutions to help them manage sophisticated networks. But their individual requirements are all very different, ranging from developers looking for complex interface hardware for ultra-high-performance servers, through to CIO's looking for complete monitoring solutions to tell them how their networks are performing, where new investment will be needed and what threats they need to defend against.

To meet these varied requirements, we have packaged our technology into several product families, designed to meet the specific needs of network managers, network architects, security managers, solution developers and hardware designers.



Network Adaptors: For systems designers, we offer the highest-performing, most cost-effective server network adaptors on the market today. We have a range of 2- and 4-port cards for 10/100 Base-T and GigE applications now, and will be releasing multi-channel 10GigE cards in Q1 of 2007.

All cards offer 100% packet capture, regardless of network load or packet size, and employ a multi-packet DMA and "zero copy" architecture to stream full line-rate data directly to the host CPU's application memory space. By minimizing the number of CPU interrupts, and optimizing the bandwidth capacity of the PCI-X bus, CPU loading is greatly reduced, and computing power is freed up for application processing.

All of our adaptors can both send and receive packets, allowing for true in-line operation. Advanced models add line-rate packet decoding and classification, protocol detection, dynamic filtering, pattern matching and conditional forwarding.

Network Appliances and Toolkits: For application developers, we provide the *Catapult toolkit*, which comprises an nPulse adaptor, bundled with a tuned operating system kernel, optimized packet capture libraries and embedded drivers for the adaptor. Simply install the card into an Opteron-based server, and the server will boot automatically into a familiar development environment offering full access to all of the advanced features and performance of the nPulse adaptor cards.

Developers can focus on the design of their software application, confident that all possible packet handling tasks, including analysis and filtering, can be easily off-loaded to nPulse hardware, and that regardless of network speed or loading, all of the power of the host CPU is available for optimal application performance.

For those who prefer a fully pre-configured server platform, we offer *Catapult*, a complete, multi-core host system with the *Catapult toolkit* already installed.

Network Applications: For network and security managers looking for an off-the-shelf solution, we offer nProbe, a powerful network monitoring tool. Measure and report on numerous network and user statistics; your network's "vital signs". nProbe applications include network monitoring, network security, traffic characterization, inventory tracking, utilization, capacity planning, accounting & billing, SLA reporting, and user and application monitoring.



nProbe is the only IPFIX-compliant NetFlow device available today. It comes in an entry-level server-based configuration, or as a high-performance probe utilizing Catapult acceleration, for 100% packet inspection on high-speed, high-load networks.

nProbe has been tested and is fully interoperable with widely-used NetFlow collectors from Arbor, Cisco, HP, InfoVista, Mazu, Micromuse and many others.