Myricom nVoy Series
10 Gbit **Packet Recorder**

The Myricom nVoy Series Packet Recorder enables security operations engineers to build next-generation network security or visibility solutions. The Packet Recorder makes it easy to droplessly record and index traffic from a 10 Gbit tap. Users can take advantage of these recordings to address issues such as compliance, forensics, and real-time threat mitigation. Additionally, the Packet Recorder is is fully backed by a customer support team that specializes in network sensor technologies.

Compliance

Some businesses demand an accurate, time-stamped record of specific packets. CSPi's nVoy packet recorder effectively filters out the traffic that you don't need and permanently records those packets that you do need. Properly configured, the CSPi nVoy Series Packet Recorder's timestamp accuracy meets strict MiFID II specifications for recording financial transactions in computer trading.

Forensics

In routine day-to-day network operation, intrusion detection system (IDS) software constantly raises alerts that a Security Operations Center must investigate. The nVoy Packet Recorder enables quick analysis by continuously recording packets. When an alert occurs, this packet history allows security engineers to fetch the specific packet flow records that triggered the IDS alert.

Key Features

- Two capture ports, each suporting 1 or 10 Gbit
- 10 Gbit/s packet recording to disk, in pcap file format, with zero packet loss
- On-the-fly indexing and compression/decompression
- Web configuration and management
- Packet indexes accessed through a command line or an API
- Optional pcap re-injection into the network
- 24 x 1.2 TB of storage standard in 2U with options for much more
- Optional pcap analysis available using the web interface

S P E C S

Performance

An enabling performance requirement is the ability to filter, merge, and record absolutely without drops. The nVoy packet recorder, built on the proven performance of CSPi's Myricom ARC Series network adapters, captures packets at 1 or 10G speeds without drops and with extremely accurate nanosecond timestamp capability. It runs on a server that CSPi has carefully tuned for optimal performance as a complete system (adapter, BIOS, operating system, and application software).

Of equal importance is the ability to locate and identify an area of interest quickly and effectively. Searching through large amounts of stored data for a pattern, session, or even IP addresses can present a significant challenge. The nVoy Packet Recorder creates on-the-fly index trees to retrieve packets in parallel while recording at line rate. You can search on a time basis or with an accelerated packet filter in BPF notation. Extracted packets are formatted as pcap files for further analysis in your favorite tool. An API is also available to access the indexes, allowing advanced users to develop their own search and extraction tools.

The nVoy packet recorder has the capacity to host multiple analysis applications sharing the same packet stream.
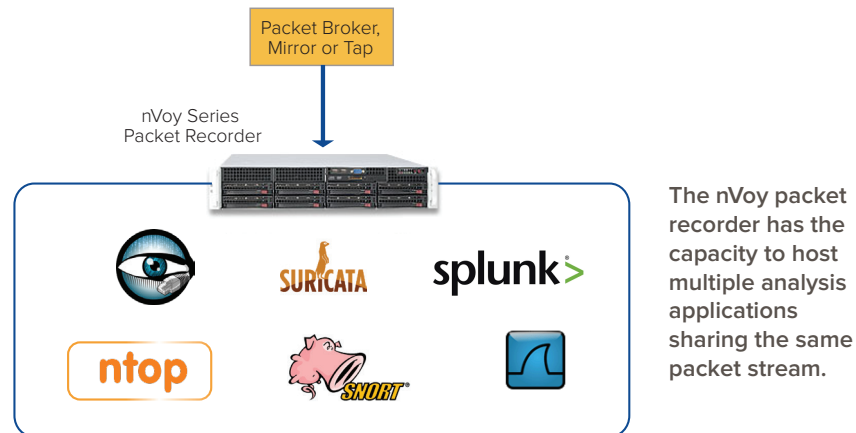
Real-time compression

Real-time pcap compression can be enabled upon packet capture to reduce the effective written data (and CPU use) and extend the capture window within the same device. Certain network traffic patterns better lend themselves to compression, such as High Frequency Trading (HFT) related traffic.

Web Interface

A powerful and easy-to-use, web-based interface is provided for capture and recording configuration, system management, and packet retrieval. Optionally, pcap file analysis can be performed directly via the web interface, enabling users to display a captured pcap or the results of a search directly in a web browser.

The nVoy dashboard provides a high-level view of the state of the recorder, including processor, memory, and disk storage utilization as well as the state of the capture interfaces.

Myricom nVoy Series Packet Recorder Configurations

	nVoy Recorder 10 Gbit	nVoy Recorder 10 Gbit
Form Factor	1U Rackmount	2U Rackmount
Sustained Capture	Up to 14.88 Mpps	up to 2 x 14.88 Mpps
Capture ports	2 x 1/10G SFP/SFP+ but the combined bandwidth to disk is limited to a single, saturated port	
Timestamp Accuracy	± 30 ns	
Input Filtering	Allows filtering content by IP source address, IP destination address, protocol and or application, to record only specified information to disk. In allow for conditional filtering after thresholds or time of day filters have been met.	
Management Port	RJ45 modular connector supporting up to 1 Gbit Ethernet	
Standard Storage Capacity	8 x 1.2 = 9.6TB	24 x 1.2 = 28.8TB
Additional Storage Capacity	Drives larger than 1.2 TB are available. Or add additional drive-only storage expansion boxes.	
Configuration and Management	Web Interface	
Software	nbox's n2disk 20G license and 10 Gbit PF_RING ZC Myricom license above a CSPi Sniffer10G license.	
Hardware	Single CPU with hardware RAID and Myricom ARC Series 2-port adapter	Dual CPU with hardware RAID and Myricom ARC Series 2-port adapter
Warranty	3 years hardware, 1 year software maintenance	
Order Number	10G-REC-8x1.2	20G-REC-24x1.2

Satisfy your packet recording needs. Contact us at myricom.sales@cspi.

About CSPi

CSPi (NASDAQ: CSPi) is a global technology innovator driven by a long history of business ingenuity and technical expertise. A market leader since 1968, we are committed to helping our customers meet the demanding performance, availability, and security requirements of their complex network, applications and services that drive success.

www.linkedin.com/company/csp-inc

@ThisIsCSPi

us-hpp-sales@cspi.com

www.cspi.com

MYRICOM Network Products

CSPi