

Network Forensics Platform

Accelerate actionable intelligence and facilitate rapid incident response

Highlights

- Continuous, lossless packet capture with nanosecond time stamping at recording speeds up to 20 Gbps
- Real-time indexing of all captured packets using time stamp and connection attributes. Export of flow index in NetFlow v5, v9, and IPFIX formats for use with other flow analysis tools
- Ultrafast search and retrieval of target connections and packets using patent-pending indexing architecture
- Web-based, drill-down GUI for search and inspection of packets, connections, and sessions
- Session decoder support for viewing and searching Web, email, FTP, DNS, chat, SSL connection details, and file attachments
- Packet payload search using regular expressions
- Industry-standard data storage and export in PCAP format, which can be stored with flexible storage options: on the appliance, SAS-attached, or SAN-attached storage

Well-maintained perimeter defenses are a key part of any security strategy. Organizations increasingly recognize that they must also complement their perimeter defenses with strong forensics capabilities to investigate and analyze attacks. When attacked, an enterprise needs to be able to rapidly investigate and determine the scope and impact of the incident so they can effectively contain the threat and secure their network.

The FireEye® Network Forensics Platform allows you to identify and resolve security incidents faster by capturing and indexing full packets at extremely rapid speeds. With the Network Forensics Platform, you can detect a broad array of security incidents, improve the quality of your response, and precisely quantify the impact of each incident.

The Network Forensics Platform provides a powerful complement to the FireEye comprehensive threat prevention capabilities. In addition to receiving precise alerts and correlated threat information, analysts can also get a fine-grained view of the specific packets and sessions before, during, and after the attack to confirm what may have triggered a malware download or callback, to respond rapidly and effectively, and to apply this information to enhancing future protective strategies.

Accelerate kill chain reconstruction and impact quantification

By allowing FireEye users to quickly locate and decode traffic and sessions before, during, and after a security event, the Network Forensics Platform provides greater visibility into activity around the event, further enhancing visibility that can be crucial for rapid incident response investigations.

Ultrafast access to historical network data is a necessity for security personnel in reducing mean time to resolution, as well as answering the key questions: how long has the breach been present, what data may have already left the network, and how many other hosts may already have been compromised?

Ultrafast packet capture, indexing, and search

The Network Forensics Platform ensures continuous, lossless packet capture with nanosecond time stamping at recording speeds up to 20 Gbps. Real-time indexing of all captured packets with nanosecond time stamps and connection attributes provides data for immediate forensics.

Industry-standard data storage and export

All packets are stored in standard PCAP format to enable flexibility to an analytics platform of choice.

Integrated workflow with FireEye Threat Prevention Platform

The integration with the FireEye platforms provides deeper insight into network traffic and activities through simple drill-down access to captured, indexed, and stored connection and packet information on the largest and busiest 10 Gbps networks. By allowing FireEye users to quickly locate and decode traffic and sessions before, during, and after a security event, the Network Forensics Platform provides greater visibility into activity around the event, further enhancing visibility that can be crucial for rapid incident response investigations.

Technical Specifications

PX Model	Capture Port Configuration	Max Record Speed	Total onboard Storage	Dimensions	Power Supply / Typical Operating Load
PX 1004ESS-16	4 x 1 Gbps, SFP	1.5 Gbps	16 TB, expandable SAS attached storage	1U Rack-Mount 1.7" x 17.2" x 25.6" (4.3 x 43.7 x 65.0 cm) 46 lbs (20.9 Kg)	650W high-efficiency (1+1) redundant AC power 100-240 VAC, 60-50 Hz auto-ranging 230-280W typical
PX 1020ESS-16	2 x 10 Gbps, SFP+	1.5 Gbps	16 TB, expandable SAS attached storage		
PX 2004ESS-24	4 x 1 Gbps, SFP	4 Gbps	24 TB, expandable SAS attached storage	2U Rack-Mount 3.5" x 17.2" x 25.5" (8.9 x 43.7 x 64.8 cm) 52 lbs (23.6 Kg)	1280W high-efficiency (1+1) redundant AC power 100-240 VAC, 60-50 Hz auto ranging
PX 2004ESS-48	4 x 1 Gbps, SFP	4 Gbps	48 TB, expandable SAS attached storage		
PX 2020ESS-24	2 x 10 Gbps, SFP+	5 Gbps, upgradeable to 20 Gbps	24 TB, expandable SAS attached storage		
PX 2020ESS-48	2 x 10 Gbps, SFP+	5 Gbps, upgradeable to 20 Gbps	48 TB, expandable SAS attached storage		
PX 2040ESS-48	4 x 10 Gbps, SFP+	5 Gbps, upgradeable to 20 Gbps	48 TB, expandable SAS attached storage		
PX 1004EXT-4G	4 x 1 Gbps, SFP	4 Gbps	No onboard storage. Fiber HBA to external SAN/NAS storage	1U Rack-Mount 1.7" x 17.2" x 25.6" (4.3 x 43.7 x 65.0 cm) 46 lbs (20.9 Kg)	650W high-efficiency (1+1) redundant AC power 100-240 VAC, 60-50 Hz auto-ranging 230-280W typical
PX 1020EXT-10G	2 x 10 Gbps, SFP+	10 Gbps			
PX 1020EXT-20G	2 x 10 Gbps, SFP+	20 Gbps			
PX 1040EXT-20G	4 x 10 Gbps, SFP+	20 Gbps			
PX 2000SX-24	n/a	n/a	24 TB storage shelf expansion for ESS models	2U Rack-Mount 3.5" x 17.2" x 25.5" (8.9 x 43.7 x 64.8 cm) 52 lbs (23.6 Kg)	500W high-efficiency (1+1) redundant AC power 100-240 VAC, 60-50 Hz auto ranging
PX 2000SX-48	n/a	n/a	48 TB storage shelf expansion for ESS models		

Note: All performance values vary depending on the system configuration and traffic profile being processed.