



# **Product Brochure**

Next-Generation Network Visibility for IT & OT Observability and Security Download





#### **NEOX Network Visibility Platform**

Next-Generation Network Visibility for IT & OT Observability and Security



 Digital Transformation and Modernization through Hybrid-Cloud Observability

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- Increased Business Continuity and Reduced Downtime
- Reduced Customer Churn through Better Experiences, Enhanced Security, and Data Protection
- Setup Once, Monitor Forever Network Visibility and Real-Time Wire-Data Access for Tools
- Scalable Foundation Layer for Building a Network
  Monitoring, Security, and Observability Practice
- Consistent Network Visibility for Provisioning Network
   -as-a-Service across the Hybrid-Cloud Infrastructure

#### Security & Data Protection

- Strengthened Network Security through Direct Access
   and Consolidation of Network Packet Data
- Real-Time Network Intelligence for Threat Hunting
   and Network Detection and Response
- Historic Network Data Access for Forensics, Incident Response, and Compliance

#### **>>**

#### Application Observability

- Enhanced Application Performance, Response, and Availability through Network Dependency Mapping
- Faster Troubleshooting for User Experience Issues
- Reduced Mean-Time-to-Resolution





#### NEOXPacketFalcon & NEOXPacketGrizzly Packet Capture & Analysis Series

Strengthening Cybersecurity and Application Observability by Integrating the Historic Network Data and Forensics







#### NEOXPacketFalcon Mini Capture Appliance

Portable & Compact | 10Gbps Capture-to-Disk | 32TB Storage Security Forensics | Compliance | Out-of-Box Dashboards







### NEOXPacketFalcon Mini X Capture Appliance

Portable & Compact | 25Gbps Capture-to-Disk | 32TB Storage Security Forensics | Compliance | Out-of-Box Dashboards







### NEOXPacketFalcon Portable Capture Appliance

Portable & Mobile | 100Gbps Capture-to-Disk | 480TB Storage Security Forensics | Compliance | Out-of-Box Dashboards







#### NEOXPacketFalcon Compact Capture Appliance

Compact | 100Gbps Capture-to-Disk | 300TB Storage Security Forensics | Compliance | Out-of-Box Dashboards







# NEOXPacketGrizzly Capture Appliance

Modular & Extensible | 100Gbps Capture-to-Disk | 8PB Storage Security Forensics | Compliance | Out-of-Box Dashboards





#### NEOXPacketFalcon & NEOXPacketGrizzly

Strengthening Cybersecurity and Application Observability by Integrating the Historic Network Data and Forensics



Industrial Site



#### NEOXPacketFalcon & NEOXPacketGrizzly

Strengthening Cybersecurity and Application Observability by Integrating the Historic Network Data and Forensics



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#### NEOXPacketWolf Packet Processing

Strengthening Cybersecurity and Application Observability by Integrating the Advanced Packet Processing and Analysis







#### NEOXPacketWolf Packet Processing

Advanced FPGA-based Packet Processing | 400Gbps Throughput NetFlow and IPFIX Unstamped Export





#### NEOXPacketWolf Packet Processing

Strengthening Cybersecurity and Application Observability by Integrating the Advanced Packet Processing and Analysis



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NEOXPacketShark Encryption & Decryption Strengthening Cybersecurity and Application Observability by Network Transparency Into Encrypted Traffic







### **NEOXPacketShark Encryption & Decryption**

TLS/SSL Traffic Visibility | Policy-Based Traffic Control Certificates | Filtering & Bypass | Compliance



An Encryption/Decryption Appliance offers an all-in-one solution to improve SSL infrastructure, providing security devices with visibility into TLS/SSL encrypted traffic and optimizing existing security investments. It supports policy-based traffic management and easily integrates with current architectures, while centralizing encryption and decryption using the latest technologies across the security framework.

- The PacketShark is a modular solution that keeps up with the process of ever-growing networks with its
  possibility to utilize NMC modules to increase the port density if required. To add more protection to the
  solution these NMC modules are also available with integrated Bypass functionality, handing over full
  control of the network links to the user. In combination with an external PacketHawk Inline Bypass and
  PacketLion Network Packet Brokers one can scale their security design to an unlimited degree.
- To effectively protect an enterprise network from both internal and external threats, a range of security
  devices is essential. Traditionally, addressing security challenges has involved administrators manually
  linking various point products to form a "security stack". PacketShark integrates with leading
  security vendors, allowing deployment within a "secure decrypt zone" to safeguard the entire network
  against encrypted threats.
- Dynamic service chaining offers a more flexible approach by routing traffic based on the Security Policy
  context. This enables specific types of traffic to flow through tailored chains of services, such as
  layer 2 and layer 3 inline services, receive-only services, ICAP, and HTTP web proxy services, optimizing
  security based on traffic needs. PacketShark uses advanced URL classification to categorize traffic from
  domains, allowing selective bypass of decryption to protect sensitive data such as medical or financial
  records, ensuring compliance with standards like HIPAA. Additionally, its URL filtering feature boosts
  employee productivity and mitigates risks by blocking access to malicious websites, including those
  linked to malware, spam, and phishing.



### NEOXPacketShark Encryption & Decryption

Strengthening Cybersecurity and Application Observability by Network Transparency Into Encrypted Traffic



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#### NEOXPacketLion & NEOXPacketTiger Network Packet Broker Series

Strengthening Cybersecurity and Application Observability by Consolidating and Forwarding the Right Data to the Right Tools







#### **NEOX**PacketLion Packet Broker Series

High-Performance Aggregation | Non-Blocking Architecture High Port Density | Inline Bypass or Out-of-Band | Flexible Stacking







#### NEOXPacketTiger Packet Broker Series

Advanced Features | Deep Packet Inspection | Application Metadata NetFlow and IPFIX Export





# NEOXPacketTigerVirtual Virtual Packet Broker

Hybrid-Cloud | Multi-Cloud | On-Prem Virtual Environments Inline or Out-of-Band | Stateful Filtering | Load Balancing





#### NEOXPacketLion & NEOXPacketTiger

Strengthening Cybersecurity and Application Observability by Consolidating and Forwarding the Right Data to the Right Tools



Branch

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#### NEOXPacketLion & NEOXPacketTiger

Strengthening Cybersecurity and Application Observability by Consolidating and Forwarding the Right Data to the Right Tools



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#### NEOXPacketDirector Packet Broker Manager

Strengthening Cybersecurity and Application Observability by Centrally Managing the Right Data to the Right Tools







#### NEOXPacketDirector Packet Broker Manager

Single-Pane-of-Glass Management of up to 100 Devices Bulk Provisioning & Rules | Auto-Discovery | Network Statistics



 NEOXPacketDirector enables the auto-discovery and management of hundreds of Neox physical and virtual Network Packet Brokers. It collects network statistics and traffic telemetry stored in elastic databases and displayed in real-time graphic visualization utilizing Kibana and Grafana dashboards. Users can define different events and triggers per device according to cross-device events, and alarms and events trigger email notifications from the NEOXPacketDirector.



#### NEOXPacketDirector Packet Broker Manager

Strengthening Cybersecurity and Application Observability by Centrally Managing the Right Data to the Right Tools



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NEOXPacketHawk Inline Bypass TAP Strengthening Cybersecurity and Application Observability, by Integrating the Real-Time Network Traffic Rerouting





#### NEOXPacketHawk Inline Bypass TAP

Up to 100G | Modular | Service Chaining | Filtering Load Balancing | Inline or Out-of-Band



· Filtering by inline port IP, port: include or exclude



#### NEOXPacketHawk Inline Bypass TAP

Strengthening Cybersecurity and Application Observability, by Integrating the Real-Time Network Traffic Rerouting



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#### NEOXPacketRaven Network TAP Series

Strengthening Cybersecurity and Application Observability, by Integrating the Real-Time Network Wire-Data Intelligence





#### NEOXPacketRaven Portable Network TAPs

Full Network Visibility up to 400G FPGA Chipset | Data Diode Function | Redundant Power





#### NEOXPacketRaven Portable Hardened TAPs

High-Security Network TAPs | CRITIS & IEC 62443 Certified Secureboot Firmware | Optionally Preconfigured | Up to 1G



- NEOXPacketRaven Hardened TAPs are available for copper and active fiber connectivity, supporting speeds up to 1Gbps.
- NEOXPacketRaven TAPs are available in the standard version to exclude an attack vector. For highsecurity areas per IEC 62443 and critical infrastructures (CRITIS), an additional hardened version is available.
- NEOXPacketRaven Hardened TAPs ship with secured encrypted firmware, employing secure boot checks for valid signatures and authorized public key, each time the TAP is restarted. Otherwise, TAP cannot be put into operation.
- NEOXPacketRaven Hardened TAPs can be delivered pre-configured, blocking any subsequent changes for security. In addition, they are secured against unwanted or unnoticed openings by special screws and security seals.





#### NEOXPacketRaven Modular Fiber TAPs

Full Network Visibility up to 400G | 100% Passive | Highest Density Extra Secure Models Available



- Due to their optical isolator and optical filter capabilities, these Secure Fiber TAPs have both, an
  additional optical isolator (Data Diode) and an optical filter, to block unwanted incoming light signals
  at the monitoring port, to protect the network from compromise. A very high insertion loss on the return
  channel from the monitoring port to the network provides an additional security layer.
- Some of the NEOXPacketRaven TAPs support bidirectional (BiDi) technology based on Wavelength Division Multiplexing (WDM) and are suitable for both single-mode and multi-mode configurations using LC or MTP connectors.



#### NEOXPacketRaven Secure Fiber Network TAPs

High Security and CRITIS Compliant | Data Diode Functionality Modular or Portable Passive TAPs | Up to 400G



NEOXPacketRaven Passive Modular and Portable Secure Fiber TAPs feature both an additional optical isolator (Data Diode functionality) and an optical filter that blocks unwanted incoming light signals at the monitoring port, to protect the network from compromise. This adds another layer of security, providing increased protection against attackers and faulty configurations.

- With NEOXPacketRaven Secure Fiber TAPs you get permanent network traffic access up to 400Gbps, for hybrid -cloud observability, application performance, and security tools, and provide 100% reliable network data.
- NEOXPacketRaven Secure Fiber TAPs are passive and do not require power. NEOXPacketRaven TAPs are
  untraceable for attackers and being at OSI layer-1, do not have a MAC/IP address. As the integrity of the
  outgoing data remains unaltered, they are used for network forensics, cybersecurity, incident response,
  and monitoring.
- NEOXPacketRaven Secure Fiber TAPs are suitable for high security areas per IEC 62443 and critical infrastructures (CRITIS).
- NEOXPacketRaven Secure Fiber TAPs are available in two variants. The Modular Fiber TAPs are designed for data center class and allow up to 30 "tapped" network segments in only 1U rack space. While the Portable Fiber TAPs are great for field and mobile use, and can also be installed in a 19" data center rack, providing great flexibility.
- NEOXPacketRaven Modular Secure Fiber TAPs are 100% compatible with standard Modular TAPs without
  Data Diode function and can be installed together in the same enclosure. They are also protocol agnostic
  and compatible with all monitoring systems from leading vendors.



#### NEOXPacketRavenVirtual Virtual TAP

100% Network Data in Virtual & Multi-Cloud Environments End-to-End East-West & North-South Traffic Visibility





#### NEOXPacketRaven Network TAP Series

Strengthening Cybersecurity and Application Observability, by Integrating the Real-Time Network Wire-Data Intelligence



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#### NEOXPacketRoo Data Diode

Strengthening Cybersecurity and Application Observability, by Integrating the Real-Time Network Wire-Data Intelligence





#### NEOXPacketRoo Data Diode

Secure File Transfer | Air Gap Assurance | Galvanic Isolation





#### NEOXPacketRoo Data Diode

Strengthening Cybersecurity and Application Observability, by Integrating the Real-Time Network Wire-Data Intelligence



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#### **Optical Transceivers and Cables**

Strengthening Cybersecurity and Application Observability by Integrating Faster and Reliable Connectivity







#### **Optical Transceivers and Cables**

Pre-Qualified Faster and Reliable Connectivity







#### Accessories

Capture Cards, Mounting Kits, Transport Cases



Following Neox accessories are available for customization and extra care of Neox products during shipment, prolonging investments:

- High-performance Capture Cards for NeoxPacketFalcon and NEOXPacketGrizzly Packet Capture Appliances
- Network TAP mounting kits and cover plates for data center server racks, and DIN hat rails for NEOXPacketRaven series
- Robust transport cases
- Standard fiber optics cables, M12 cables, fan out cables, fiber loopback adapter, hat rail kits, etc.



### **NEOX NETWORKS**

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