

nGenius Packet Flow eXtender Software

HIGHLIGHTS

- High performance 4x10G, 2x40G and 2x100G in 1U x86 server platforms
- Integrate with NETSCOUT® PFS Series or any 3rd party Packet Brokers
- Boost monitoring and security tool efficiency and extend tool life span
- Flexible and scalable software-driven expert packet conditioning

Optimize Network Traffic With Expert Packet Conditioning

Packet Flow eXtender (PFX) is a software application enabling expert packet conditioning for service assurance and cybersecurity monitoring. As part of the nGenius® Packet Flow System (PFS) portfolio, PFX integrates with NETSCOUT's broad set of packet broker products to enable expert-level capabilities, such as packet deduplication, NetFlow/IPFIX generation, header stripping, packet slicing, and masking. The PFX software application runs on multiple x86 commodity server platforms, providing high performance, scalability on demand in a cost-effective manner.

With InfiniStreamNG® as its foundation, PFX delivers the performance and scaling capabilities needed to process network traffic generated by millions of users using hundreds of applications. It delivers feature velocity and agility, independent of the underlying hardware platform. The common architecture across all InfiniStreamNG applications also means short learning cycles for IT personnel and operational efficiency.

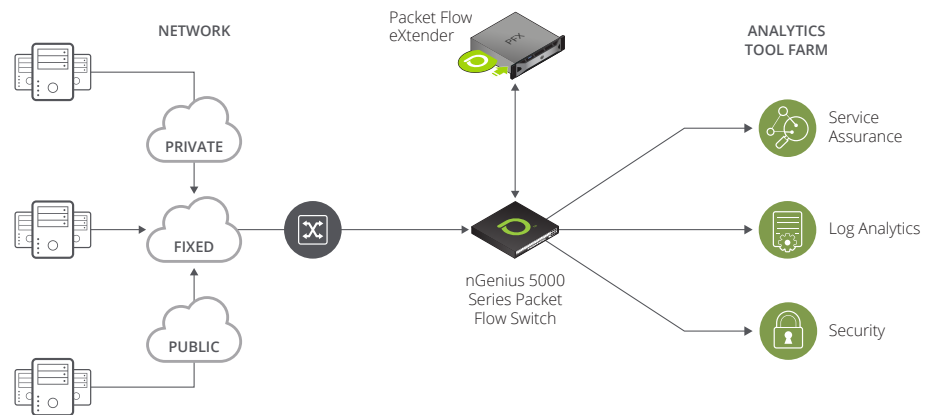


Figure 1: Expert Packet Conditioning with PFX.

Maximize security monitoring tool performance and reduce costs by conditioning traffic for easy processing

As shown in Figure 1, PFX connects to any type of network through TAP and SPAN ports, including IP tunneled connections for expert packet conditioning before forwarding desired traffic to the tool farms. PFX easily interconnects with a multitude of other PFS products from NETSCOUT or even with third-party packet brokers to form the desired solution configuration.

While enterprises benefit from end-to-end visibility for the entire network, the challenge is to find a right-sized system that meets the needs at a particular location in the network. PFX offers a range of software appliance options suitable for deploying in multiple topologies for different size installations from small to large enterprise and service provider data centers. To solve scalability and monitoring needs of very large environments, multiple PFX systems can be deployed to provide virtually unlimited scalability.



Key Benefits

- Remove duplicate packets reaching security and monitoring tools, to free up capacity and increase performance.
- Offload NetFlow/IPFIX generation to eliminate switches and router performance degradation.
- Remove network header tagging or protocol header encapsulations from packets for uninterrupted security monitoring.
- Reduce monitoring traffic volume by slicing packets by keeping only required portion.
- Dynamically obfuscate confidential data in packets for privacy and regulatory compliance.

Features and Benefits

Feature	Description/Benefits
NetFlow Generation	<ul style="list-style-type: none"> • Generates NetFlow versions v5, v9 and IPFIX • Unsampled 1:1 NetFlow record generation • Support over 120 million flows per minute • Exports to up to four (4) NetFlow destination collectors
Packet De-duplication	<ul style="list-style-type: none"> • De-duplication based on IP header, IP header & CRC, Inner VLAN & IP header, Outer VLAN & IP header, IP header & 32-bit maskable offset • Line rate performance up to 200 Gbps
Header Stripping	<ul style="list-style-type: none"> • Remove up to seven (7) MPLS labels • Remove GRE, L2GRE/NVGRE, and ERSPAN headers • Cisco Fabric Path • TRILL • Generic header stripping for custom protocols
Packet Slicing	<ul style="list-style-type: none"> • Truncate packets to a specified length • Define starting point in L2, L3, or L4 headers and the offset • Conditional slice with Src/Dest MAC, Src/Dest IP, Etype, Outer VLAN, IP TOS, Protocol, IP Flow • Line rate performance up to 200 Gbps
Packet Masking	<ul style="list-style-type: none"> • Mask packets to a specified starting point and length • Define starting point in L2, L3, or L4 headers and the offset • Conditional mask with Etype, Protocol

Ordering Information

NETSCOUT PFX Software Appliances

Model/SKU	Description
M-02795-00S-1	NETSCOUT Certified Packet Flow eXtender Software, includes 4-port 10G Accelerator NIC (SFP+), for use with M-02700 series Certified server hardware
M-04807-01S-2	NETSCOUT Certified Packet Flow eXtender Software, includes 2-port 40G Accelerator NIC (QSFP+), for use with M-04800 series Certified server hardware
M-04802-00S-2	NETSCOUT Certified Packet Flow eXtender Software, includes 2-port 100G Accelerator NIC (QSFP28), for use with M-04800 series Certified server hardware
M-02700-HSJA1	Certified PFX 2700 server (4x10G only), AC power
M-02700-HSJD1	Certified PFX 2700 server (4x10G only), DC power
M-04800-HSJA2	Certified PFX 4800 server (2x40G or 2x100G), AC power
M-04800-HSJD2	Certified PFX 4800 server (2x40G or 2x100G), DC power

SPECIFICATIONS

Characteristic	M-02700-HSJA1 M-02700-HSJD1	M-04800-HSJA2 M-04800-HSJD2
Management Port	2 RJ-45 1/10GBASE-T 1 IPMI 1000BASE-T	2 RJ-45 1/10GBASE-T 1 IPMI 1000BASE-T
CPU	Single 22-core	Dual 22-core
Memory	96GB	96GB
Storage	8TB	8TB
Embedded OS	Solid State Drive (SSD) dedicated to Linux® OS	
Rack Unit	1 Rack Unit (1RU)	
Dimensions	1.7 in (43 mm) Height 17.2 in (437 mm) Width 25.6 in (650 mm) Depth	
Weight	38 lbs. (17.24 kg)	40 lbs. (18.2 kg)
Mounts	Rack mount side rails included	
Power Rating (AC)	700W/750W hot swappable, redundant, auto-ranging 700W: 100-140 VAC, 50-60 Hz, 8.0-6.0 Amp 750W: 200-240 VAC, 50-60 Hz, 4.5-3.8 Amp	
Maximum Consumption (AC)	100V, 3.9A, 400W	
Heat Dissipation (AC)	1999 BTU/hr	
Power Rating (DC)	1+1 hot-swappable, redundant -48VDC, 650W, 20A (x2)	
Maximum Consumption (DC)	12A, 581W	
Heat Dissipation (DC)	1982 BTU/hr	
Vibration	0.25G from 5-200Hz for 15 minutes	
Operating Temperature	41° to 95°F (5° to 35°C)	
Operating Humidity	8% - 90% (non-condensing)	
Altitude	-50 to 10,000 ft (-16 to 3,048 m)	
Mechanical Shock	1 shock pulse up to 20G for up to 2.5 ms	
Regulatory Approvals	Regulatory Model Number: NV51U, FCC Part 15 Class A, CE Mark (EN55032 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3), VCCI (Japan) Class A, RRA (Korea) KC Cert #: R-R-NSZ-NV51U, CCC Class A (China), EAC (Russia), BIS (India), UL- C of C (Mexico), CM (Morocco), BSMI (Taiwan), LoA (South Africa), UL 60950-1/62368-1, CAN/CSA C22.2 No. 60950/62368-1, IEC 60950-1/62368-1, EN 60950-1/62368-1, CB Report	



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