

# nGenius Packet Flow eXtender Software

## HIGHLIGHTS

- Supports visibility deployments for cybersecurity and service assurance
- Built on InfiniStreamNG™ platform and architecture framework
- Investment protection and reduced TCO
- Flexibility with appliance and software options
- Add-on to any NETSCOUT® Packet Flow System (PFS) or third-party network packet broker
- Single appliance used with the nGeniusONE® platform for network and applications service assurance, unified communications service assurance, cybersecurity, and IT operational analytics
- Powerful Adaptive Service Intelligence™ Plus (ASI+) technology for high-performance, deep packet inspection and analysis

## Expert Packet Conditioning for Scalable Visibility Network

Packet Flow eXtender (PFX) is a software application enabling expert packet conditioning for service assurance and cybersecurity monitoring. The solution is built on the NETSCOUT InfiniStreamNG platform and framework leveraging patented technologies. 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 NetFlow generation and IP tunnel termination. The PFX application runs on multiple InfiniStreamNG hardware appliances and on several x86 server platforms, providing scalability on demand in a cost-effective manner.

## InfiniStreamNG as Foundation for PFX

InfiniStreamNG is a real-time packet analysis platform that provides the foundation for PFX. InfiniStreamNG delivers a high-performance, scalable engine for expert packet conditioning and manipulation.

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.

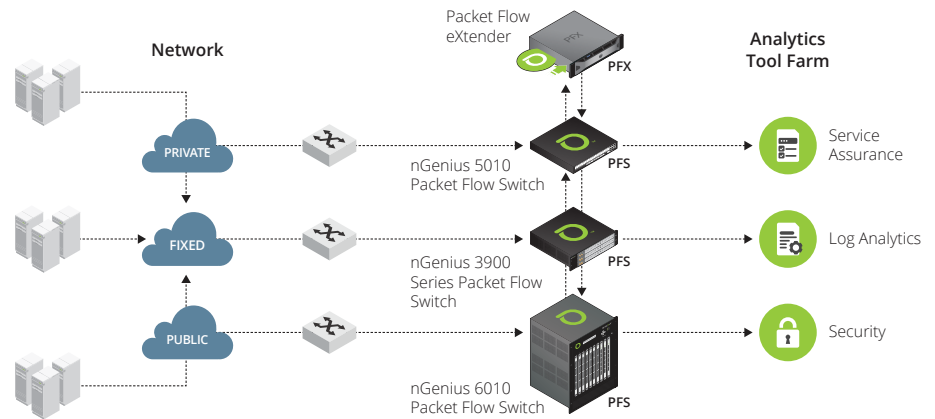


Figure 1: Expert Packet Conditioning with PFX.

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 organizations 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 appliances and software 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.

*Expert Packet Conditioning Features to Help You Evolve and Scale Your Network Visibility Infrastructure – on Demand*



## ASI+ for Intelligent Deep Packet Capture and Analysis

InfiniStreamNG is a real-time information platform that supports next-generation IT initiatives being implemented by enterprises to achieve their digital transformation business objectives. With intelligent, deep-packet capture and analysis, it provides IP intelligence from dedicated, always on, monitoring and continuous capture capabilities for real-time and back-in-time analysis. InfiniStreamNG is the foundation for the nGeniusONE Service Assurance platform to analyze packets traversing the network for rapid problem isolation and service delivery assurance.

InfiniStreamNG hosts Adaptive Service Intelligence Plus (ASI+) - groundbreaking technology that delivers a high-performance, deep-packet inspection (DPI) engine for analysis of network traffic. It generates highly scalable meta-data for comprehensive views of service, network, application, and server performance across complex multi-tier, multi-domain service delivery environments.

## Features & Benefits

Feature	Description/Benefit
<b>NetFlow Generation</b>	<ul style="list-style-type: none"> <li>Generates NetFlow versions v5, v9 and IPFIX</li> <li>Configurable active timer</li> <li>Exports to up to four (4) NetFlow destination collectors</li> <li>Detail Flow statistics</li> </ul>
<b>IP Tunnel Termination</b>	<ul style="list-style-type: none"> <li>Terminates GRE tunneled traffic (e.g. NVGRE, ERSPAN) and forwards packets to tools</li> <li>Combines tunnel termination with protocol header stripping/de-encapsulation</li> <li>Support four (4) IP network ports with multiple GRE tunnels on each physical IP network port</li> </ul>
<b>Packet De-duplication</b>	<ul style="list-style-type: none"> <li>De-duplication based on L2 only, L3 only, or L2 &amp; L3</li> <li>Configurable buffer depth</li> <li>De-duplication statistics</li> </ul>
<b>Header Stripping</b>	<ul style="list-style-type: none"> <li>Remove up to seven (7) MPLS labels</li> <li>Remove GRE, L2GRE/NVGRE, and ERSPAN headers</li> <li>Cisco Fabric Path</li> <li>TRILL</li> </ul>

## Ordering Information

### NETSCOUT InfiniStreamNG Appliances

Model/SKU	Description	NIC
ISNG 2395	InfiniStreamNG 2395 appliance is ideal for small and medium data centers and service provider environments.	NETSCOUT ASI Accelerator NIC, 4-port 1/10G
ISNG 4695	InfiniStreamNG 4695 appliance is ideal for large data centers and service provider environments.	NETSCOUT ASI Accelerator NIC, 4-port 1/10G
ISNG 9795	InfiniStreamNG 9795 appliance is ideal for very large data centers and service provider environments.	NETSCOUT ASI Accelerator NIC, 4-port 1/10G
ISNG 9895	InfiniStreamNG 9895 appliance is ideal for very large data centers and service provider environments.	NETSCOUT ASI Accelerator NIC, 4-port 1/10G

### NETSCOUT Certified InfiniStreamNG Software

Model/SKU	Description
C-02695-00S-1	NETSCOUT Certified InfiniStreamNG Software, includes NETSCOUT 4-Port 10G ASI Accelerator NIC (SFP+), 1-socket, for use with C-02600 series certified appliance hardware.
C-06695-00S-1	NETSCOUT Certified InfiniStreamNG Software, includes NETSCOUT 4-Port 10G ASI Accelerator NIC (SFP+), 1-socket, for use with C-06600 series certified appliance hardware.
C-04895-00S-2	NETSCOUT Certified InfiniStreamNG Software, includes NETSCOUT 4-Port 10G ASI Accelerator NIC (SFP+), 2-socket, for use with C-04800 series certified appliance hardware.
C-09895-00S-2	NETSCOUT Certified InfiniStreamNG Software, includes NETSCOUT 4-Port 10G ASI Accelerator NIC (SFP+), 2-socket, for use with C-09800 series certified appliance hardware.

### NETSCOUT Qualified InfiniStreamNG Software

Model/SKU	Description
C-05095-000-1	NETSCOUT Qualified InfiniStreamNG Software, includes NETSCOUT 4-Port 10G ASI Accelerator NIC, 1 socket.
C-05095-000-2	NETSCOUT Qualified InfiniStreamNG Software, includes NETSCOUT 4-Port 10G ASI Accelerator NIC, 2 sockets.
C-05095-000-4	NETSCOUT Qualified InfiniStreamNG Software, includes NETSCOUT 4-Port 10G ASI Accelerator NIC, 4 sockets.



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