

# NETSCOUT and McAfee Security Innovation Alliance

## LEARN HOW TO DEPLOY, SCALE & OPTIMIZE YOUR NETWORK SECURITY BEYOND 240GBPS

### Introduction

Under the McAfee® Security Innovation Alliance (SIA) Partner Program, NETSCOUT has integrated its nGenius® packet flow switches (PFS) with McAfee’s inline security system, such as the McAfee Network Security Platform (NSP). This partnership enables joint customers to achieve a unprecedented level of security, availability, and redundancy when deploying inline monitoring and security tools (i.e. McAfee’s Network Security Platform), as well as the flexibility of aggregation, speed and media conversion, intelligent load balancing, traffic grooming and the ability to define how packets are handled in a powered off state through PowerSafe™.

### The McAfee and NETSCOUT integration

The NETSCOUT nGenius packet flow switches enable you to easily and rapidly deploy, scale and optimize your McAfee solutions. For instance, with NETSCOUT you can connect multiple NSP Sensors to each intelligent traffic capture device incrementally or immediately, in passive or inline configurations. This flexibility enables you to support multiple networks, network segments, and systems. The combined

technologies deliver an enhanced level of network security, higher availability, unmatched flexibility, and scalability worldwide.

### Benefits

#### Maintenance for Inline Sensors without Service Impact:

Automatically reroute traffic during updates or maintenance so that McAfee Sensors (passive or inline) can be inserted and removed without having to experience network downtime

#### Unmatched Configuration Flexibility:

Choose from virtually limitless configuration possibilities between Mixed Media (Fiber /Copper) or Speeds (1G / 10G/ 40G)

#### Easily Scalable Security Architecture:

Deploy a multiprotocol security infrastructure on a single device

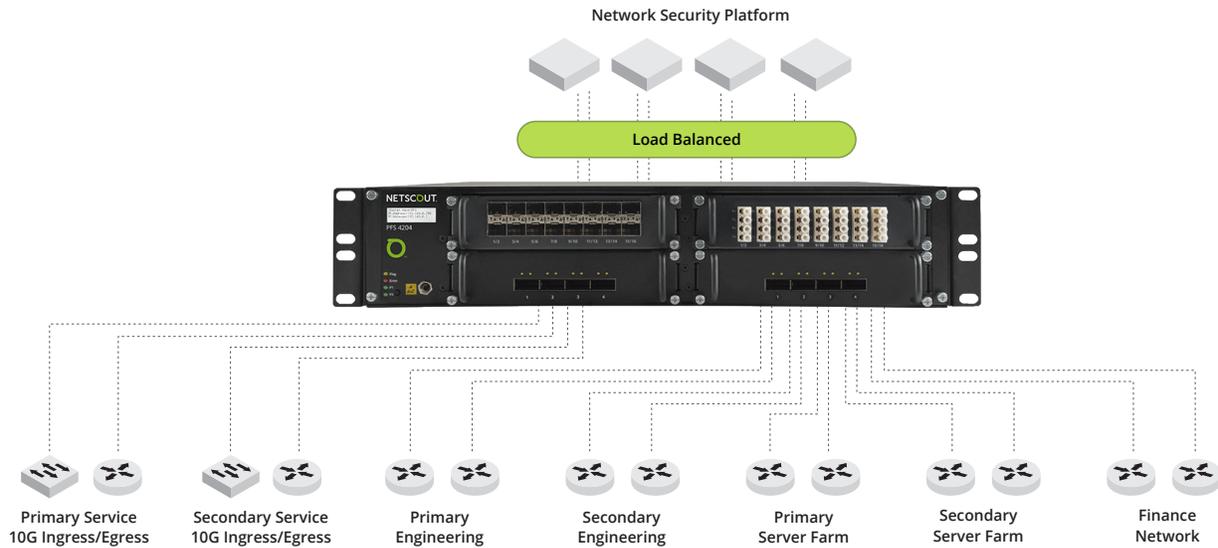
#### Extend Existing IT Investments:

Add additional McAfee Sensors of various throughputs to meet expanding infrastructure requirements

Key Features	Increased Performance for McAfee Solutions	Maximize Efficiency of McAfee Security	Complete Multi-Segment Network Visibility	High-Availability for Inline Pair Solutions	Easily Architect Fault Tolerance Solutions	Maintain Inline Tools without Service Impact	Deploy McAfee Inline Tools in Controlled	Scales McAfee Solutions Beyond 240 Gbps	Extend Current Investments in 1G Tools	Comply with Regulations
Selective Aggregation	X	X	X	X				X	X	
Hardware-based Intelligent Filtering	X	X	X		X	X	X	X	X	
Session-aware Load Balancing	X	X		X	X	X		X	X	
vStack+			X	X	X			X	X	
Packet Optimization	X	X	X						X	X
Deep Packet Inspection (DPI)			X							X
In-line Tool Bypass (Protector)	X	X	X	X	X	X	X	X	X	X
Event Triggered Bypass Policy		X		X	X		X	X	X	
Integrated Remote Management			X		X	X	X	X		

Table 1: This table provides a snapshot of the key features and benefits offered by integrating McAfee and NETSCOUT.





## USE CASE EXAMPLES

The McAfee and NETSCOUT packet flow switch solution can accommodate a variety of different network architectures. Below are two examples of common scalable architectures for both solutions.

### Use Case One: Load Balancing and Scale Beyond 240Gbps

The nGenius 4200 series packet flow switch (PFS 4204) is capturing and aggregating traffic from multiple 40G, 10G and 1G networks. The PFS 4204 intelligently load balances the aggregated traffic into a bank of 4 (or more) McAfee NSP Sensors which can be configured inline or passively. Traffic is dynamically load balanced across the McAfee Sensors. A copy of the active traffic can be sent intelligently via one or more 1G, 10G or 40G links to one or more vBrokers for further aggregation with other input sources which can then be load spread and balanced across other passive McAfee security solutions. The PFS 4204 continuously conducts application-level health checks on all connected security devices to fully exercise the application stack of the NSP and identify failures. Based on the result of these unique application-level health checks, the customer can remove the failed Sensor for maintenance purposes and reconnect the Sensor when maintenance is complete with no interruption to the network. The PFS 4204 provides Selective Aggregation, Hardware-based Filtering (L2-L7+ Custom filtering), Session-Aware Load Balancing, Intelligent Redundant vStack+™, Packet Optimization (Port & Time Stamping, Conditional Packet Slicing, VLAN Tag and MPLS Label Stripping, and GTP De-encapsulation), Active Inline Aggregation and support for Microburst Applications (Extended High Data Burst Buffering, Sub-Millisecond Network Utilization for Capacity Planning).

### Use Case Two: Multiple Security Layers Through a Single Platform

As opposed to the traditional approach of using dedicated devices for each security layer, in this configuration the PFS 4204 filters and redirects the copied traffic for analysis to the appropriate gateway security appliance. To complement this analysis, McAfee Sensors provide an additional layer of security. Users can configure multiple Sensors statically so that they process only certain types of traffic, or dynamically so that the traffic is spread across the McAfee Security Sensors via load balanced groups. The active traffic can be copied and forwarded to passive tools locally connected to the PFS 4204. With load balancing and vStack+ users can direct any captured and copied traffic on any network input, to a monitor output on another captured tool anywhere. vStack+ scales to the largest networks while preserving low latency and ensuring routing redundancy.

### About NETSCOUT nGenius Packet Flow Switches

NETSCOUT nGenius packet flow switches optimize the flow of traffic from the network to the security systems and monitoring tools. These appliances collect and organize packet flows—creating a unified packet plane that logically separates the network layer from the tool layer. Our customers use packet flow switches to optimize and scale both their service assurance platform and cybersecurity deployments so that they can spend less time adding, testing and managing their tools.

**NETSCOUT**

#### Americas East

310 Littleton Road  
Westford, MA 01886-4105  
Phone: 978-614-4000  
Toll Free: 800-357-7666

#### Americas West

178 E. Tasman Drive  
San Jose, CA 95134  
Phone: 408-571-5000

#### Asia Pacific

17F/B  
No. 167 Tun Hwa N. Road  
Taipei 105, Taiwan  
Phone: +886 2 2717 1999

#### Europe

One Canada Square  
29th floor, Canary Wharf  
London E14 5DY, United Kingdom  
Phone: +44 207 712 1672

NETSCOUT offers sales, support, and services in over 32 countries.

For more information, please visit  
[www.netscout.com](http://www.netscout.com) or contact NETSCOUT  
at 800-309-4804 or +1 978-614-4000

© 2016 NETSCOUT SYSTEMS, INC. All rights reserved. NETSCOUT, nGenius, nGeniusONE, ASI, Adaptive Service Intelligence and the NETSCOUT logo are registered or pending trademarks of NETSCOUT SYSTEMS, INC. and/or its affiliates in the United States and/or other countries ("NETSCOUT"). All other brands and product names and registered and unregistered trademarks are the sole property of their respective owners. Use of this product is subject to the NETSCOUT SYSTEMS, INC. ("NETSCOUT") End User License Agreement that accompanies the product at the time of shipment or, if applicable, the legal agreement executed by and between NETSCOUT and the authorized end user of this product ("Agreement"). NETSCOUT reserves the right, at its sole discretion, to make changes at any time in its technical information, specifications, service, and support programs.