

nGenius Packet Flow Switch Fabric Manager

Centralized Orchestration and Management of Visibility Fabric

HIGHLIGHTS

- Single pane of glass for managing NETSCOUT® nGenius® 5000, 6000, and 7000 series Packet Flow Switches and nGenius Packet Flow eXtender Software
- Centralized orchestration and management enables easy-to-use, powerful configuration and monitoring of the entire visibility network
- Visual traffic maps, or topologies, allow for drag-and-drop configuration and deployment of traffic flows, from TAP to tool
- Inline topologies simplify configuration of inline toolchain configurations
- HTML5 browser-based UI means no software to install
- Central server high availability keeps management available even when the primary server hardware fails
- Available as a pre-configured and pre-installed server appliance or in software-only form for installation on customer-provided hardware or in a virtual machine
- Central server learns the configuration of switches placed under its management – no re-provisioning when moving to central management
- The central server continues learning configuration of the switches in real time – users can manage switches both via PFS Fabric Manager and directly via any of the PFOS user interfaces

Product Overview

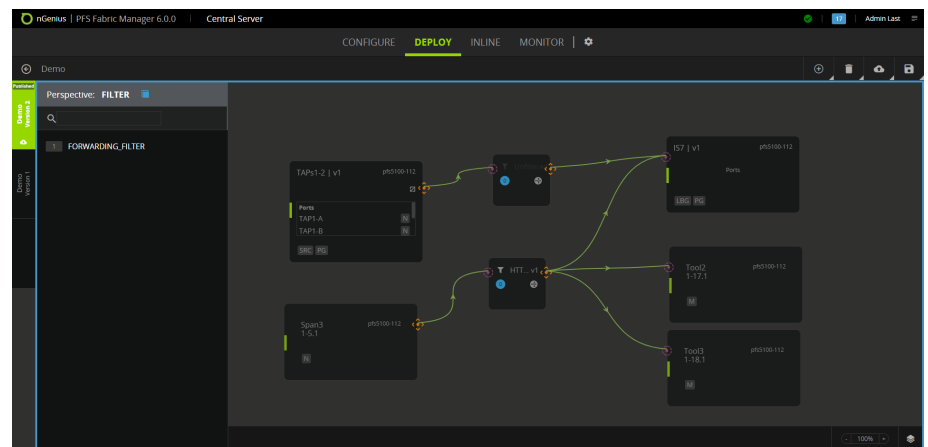
The nGenius 5000, 6000, and 7000 series Packet Flow Switches (PFS) enable pervasive network visibility from small or remote sites to large, core, or spine deployments in data centers and central offices. Packet Flow eXtender (PFX) is a software application enabling expert packet conditioning for service assurance and cybersecurity monitoring. The nGenius Packet Flow Switch Fabric Manager is a central management pane of glass that enables administrators to easily configure, deploy, and troubleshoot monitoring networks and inline toolchains. It provides an intuitive, drag-and-drop configuration with powerful but simple-to-use workflows that cover the three major areas, or lifecycles, of a packet flow switch system: configuration, deployment, and monitoring. Inline toolchains are configured via the Inline lifecycle.

Configuration Lifecycle

In the Configure Lifecycle, administrators can easily configure physical entities such as switches, blades, and ports. Reusable logical entities such as filters and load balance groups can be configured for drag-and-drop deployment in graphical traffic maps, called topologies. Intelligent workflows allow administrators to, for example, create new filters or new filters based on a previously configured filter, allowing for quick and easy changes to filters already in deployment.

Deployment Lifecycle

In the Deployment Lifecycle, administrators configure their monitoring fabric in a graphical representation called topologies. Topologies are comprised of user-created flows of traffic from ingress ports (typically connected to a TAP) through the packet flow switch or switches and out to the monitoring tools. Changes are not made to the underlying infrastructure until the administrator chooses to push the configuration to the switches. Pre-staging of changes can be made ahead of a maintenance window without disrupting the current configuration or having to wait until the maintenance window arrives to make the changes. Topology versioning enables snapshots of topologies at given points in time, providing backups to existing configuration and giving administrators peace of mind.



Monitor Lifecycle

In the Monitor Lifecycle, administrators oversee the health of the current system, including system status and statistics.

Inline Lifecycle

In the Inline Lifecycle, administrators configure their active inline toolchains in a graphical representation called topologies. Inline topologies are more structured than passive monitoring (Deployment Lifecycle) topologies, allowing the administrator to graphically configure toolchains (active inline tools and the connections between them including any filtering) and the Inline Network ports whose traffic is sent through the toolchains. PFS Fabric Manager's graphical representation of inline configurations makes even complex inline configurations intuitive. As with passive monitoring topologies, changes are not made to the underlying infrastructure until the administrator chooses to push the configuration to the switches. Topology versioning allows pre-staging changes ahead of maintenance windows and quick rollback to previous "known good" configurations.

Features and Benefits

Features	Benefits
Centralized Management <ul style="list-style-type: none"> nGenius 5000 series PFS nGenius 6000 series PFS nGenius 7000 series PFS nGenius Packet Flow eXtender Software 	<ul style="list-style-type: none"> Provides a single pane of glass for the entire monitoring network
HTML5 drag-n-drop web UI	<ul style="list-style-type: none"> No software to install – just a web browser Lightweight, modern interface
Central Manager High Availability	<ul style="list-style-type: none"> Maintains management of your monitoring fabric in the face of server/hardware failures
Graphical Topologies	<ul style="list-style-type: none"> Provides intuitive configuration of traffic flows from TAP to tool
Tabular Topologies	<ul style="list-style-type: none"> Provides a tabular view for customers who prefer it Multi-select simplifies moving multiple connections/maps to other topologies
Graphical Inline Toolchains	<ul style="list-style-type: none"> Provides intuitive configuration of toolchains for inline security deployments
Transparent Cross-switch Flow Configuration with pfsMesh	<ul style="list-style-type: none"> Allows intuitive configuration of traffic flows between switches – no need to build hop-by-hop configuration, just connect the ingress port to the egress port
Centralized Configuration Management	<ul style="list-style-type: none"> Configure all switches from a single point Create logical entities such as filters once and use throughout the monitoring fabric
Centralized Monitoring	<ul style="list-style-type: none"> View statistics from all switches Centralized view of events from all switches Centralized view of alarm activity from all switches
Centralized Lifecycle Management	<ul style="list-style-type: none"> Centralized software management including bulk and scheduled PFS software upgrades Centralized license management
Scheduled Config Changes	<ul style="list-style-type: none"> Schedule configuration changes to occur during maintenance windows Repeat scheduling allows different monitoring behavior at certain times of the day or week
PFS Configuration Learning <ul style="list-style-type: none"> The central server learns the device's configuration 	<ul style="list-style-type: none"> No need to re-configure when upgrading to the central management server
Role-Based Access (RBAC) <ul style="list-style-type: none"> User-defined roles Multiple roles per user 	<ul style="list-style-type: none"> Conforms to security policy needs Allows least-privilege access
Local and Remote Authentication and Authorization <ul style="list-style-type: none"> Local RADIUS TACACS+ 	<ul style="list-style-type: none"> Local AAA for standalone deployments Remote AAA meets security policy needs and allows user and role configuration to be centralized
Available as Hardware or Software	<ul style="list-style-type: none"> Pre-configured server simplifies deployment and support Software-only provides the same features and functions on customer-provided hardware or VM

Ordering Information

Part Numbers	Description
51401L	nGenius Packet Flow Switch (PFS) Fabric Manager Server
91400L	nGenius Packet Flow Switch (PFS) Fabric Manager Software-Only

SPECIFICATIONS

Server Appliance Specifications

CPU	Single 8-Core @ 2.1 GHz
Storage	4TB useable (3 x 2TB RAID 5)
Memory	32GB
Network Interfaces	4-port Gigabit Ethernet (RJ45)
Height	2RU
Dimensions	3.4 in (87 mm) Height 19 in (482 mm) Width 29.9 in (760 mm) Depth
Weight	63 lbs (28.6 kg)
Power	Dual redundant hot-swappable 750W power supplies 100-240VAC, 50-60 Hz 316 W (1078 BTU/hr) maximum
Operating Temperature	10° - 35°C (50° - 95°F)
Storage Temperature	-40° - 65°C (-40° - 149°F)
Operating Relative Humidity	10% - 80%, non-condensing
Storage Relative Humidity	5% - 95%, non-condensing
Regulatory Approvals	E38S, FCC (US only) Class A, ICES (Canada) Class A, CE Mark (EN55032 Class A, EN55024, EN61000-3-2, EN61000-3-3), VCCI (Japan) Class A, BSMI (Taiwan) Class A, RCM (Australia/New Zealand) Class A, SABS (South Africa) Class A, CCC (China) Class A, MIC (Korea) Class A, NOM (Mexico), CM (Morocco), BIS (India), UL/EN/IEC 62368-1 & 60950-1, CAN/CSA C22.2 No. 60950-1 & 62368-1

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