

# nGenius Packet Flow Switch Fabric Manager

## Centralized Orchestration and Management of Visibility Fabric

### HIGHLIGHTS

- Single pane of glass for managing NETSCOUT® nGenius® 5000 and 6000 series Packet Flow Switches
- 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
- HTML5 browser-based UI means no software to install
- 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
- A single UI on individual switches and the central server – one UI and set of workflows to learn facilitates migrating from individual to central management
- Central server learns the configuration of switches placed under its management – no re-provisioning when moving to central management

### Product Overview

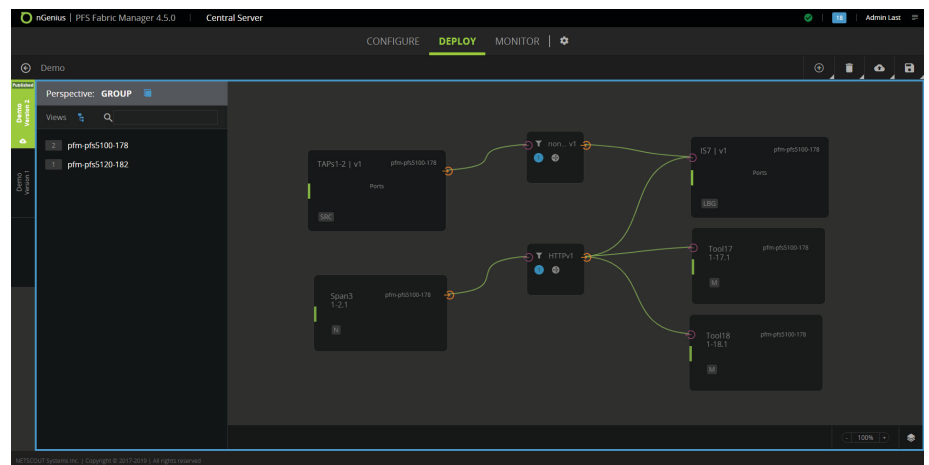
The nGenius 5000 and 6000 series Packet Flow Switches (PFS) enable pervasive network visibility from small or remote sites to large, core, or spine deployments in data centers and central offices. The nGenius Packet Flow Switch Fabric Manager is a central management pane of glass that enables administrators to easily configure, deploy, and troubleshoot monitoring networks. 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.

### 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. Statistics are offered in graphical and tabular format for maximum usability, depending on the need.



## Features and Benefits

Features	Benefits
<b>Centralized Management</b> <ul style="list-style-type: none"> <li>nGenius 5000 series PFS</li> <li>nGenius 6000 series PFS</li> </ul>	<ul style="list-style-type: none"> <li>Provides a single pane of glass for the entire monitoring network</li> </ul>
<b>HTML5 drag-n-drop web UI</b>	<ul style="list-style-type: none"> <li>No software to install – just a web browser</li> <li>Lightweight, modern interface</li> </ul>
<b>Common UI</b> <ul style="list-style-type: none"> <li>Same UI on the PFS (when managed individually) and the central server</li> </ul>	<ul style="list-style-type: none"> <li>One set of workflows to learn</li> <li>Eases migration to centralized management</li> </ul>
<b>Graphical Topologies</b>	<ul style="list-style-type: none"> <li>Provides intuitive configuration of traffic flows from TAP to tool</li> </ul>
<b>Topology Versioning</b>	<ul style="list-style-type: none"> <li>Provides configuration snapshots</li> <li>Allows pre-configuration of changes ahead of maintenance window</li> <li>Allows easy rollback</li> </ul>
<b>Transparent Cross-switch Flow Configuration with pfsMesh</b>	<ul style="list-style-type: none"> <li>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</li> </ul>
<b>Centralized Configuration Management</b>	<ul style="list-style-type: none"> <li>Configure all switches from a single point</li> <li>Create logical entities such as filters once and use throughout the monitoring fabric</li> </ul>
<b>Centralized Monitoring</b>	<ul style="list-style-type: none"> <li>View statistics from all switches</li> <li>Centralized view of events from all switches</li> <li>Centralized view of alarm activity from all switches</li> </ul>
<b>Centralized Lifecycle Management</b>	<ul style="list-style-type: none"> <li>Centralized software upgrade</li> <li>Centralized license management</li> </ul>
<b>PFS Configuration Learning</b> <ul style="list-style-type: none"> <li>The central server learns the device's configuration</li> </ul>	<ul style="list-style-type: none"> <li>No need to re-configure when upgrading to the central management server</li> </ul>
<b>Role-Based Access (RBAC)</b> <ul style="list-style-type: none"> <li>User-defined roles</li> <li>Multiple roles per user</li> </ul>	<ul style="list-style-type: none"> <li>Conforms to security policy needs</li> <li>Allows least-privilege access</li> </ul>
<b>Local and Remote Authentication and Authorization</b> <ul style="list-style-type: none"> <li>Local</li> <li>RADIUS</li> <li>TACACS+</li> </ul>	<ul style="list-style-type: none"> <li>Local AAA for standalone deployments</li> <li>Remote AAA meets security policy needs and allows user and role configuration to be centralized</li> </ul>
<b>Available as Hardware or Software</b>	<ul style="list-style-type: none"> <li>Pre-configured server simplifies deployment and support</li> <li>Software-only provides the same features and functions on customer-provided hardware or VM</li> </ul>

## 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

<b>CPU</b>	Single 8-Core @ 2.1 GHz
<b>Storage</b>	2 TB useable (3x 1 TB RAID 5)
<b>Memory</b>	32 GB
<b>Network Interfaces</b>	4-port Gigabit Ethernet (RJ45)
<b>Height</b>	2RU
<b>Dimensions</b>	3.4 in (87 mm) Height 19 in (482 mm) Width 29.9 in (760 mm) Depth
<b>Weight</b>	63 lbs (28.6 kg)
<b>Power</b>	Dual redundant hot-swappable 750W power supplies 100-240VAC, 50-60 Hz 316 W (1078 BTU/hr) maximum
<b>Operating Temperature</b>	10° - 35°C (50° - 95°F)
<b>Storage Temperature</b>	-40° - 65°C (-40° - 149°F)
<b>Operating Relative Humidity</b>	10% - 80%, non-condensing
<b>Storage Relative Humidity</b>	5% - 95%, non-condensing
<b>Regulatory Approvals</b>	E38S, FCC (US only) Class A, ICES (Canada) Class A, CE Mark (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3), VCCI (Japan) Class A, BSMI (Taiwan) Class A, C-Tick (Australia/New Zealand) Class A, SABS (South Africa) Class A, CCC (China) Class A, MIC (Korea) Class A, NOM (Mexico), CM (Morocco), UL 60950-1, CAN/CSA C22.2 No. 60950-1, EN 60950, IEC 60950-1



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NETSCOUT offers sales, support, and services in over 32 countries. Global addresses, and international numbers are listed on the NETSCOUT website at: [www.netscout.com/company/contact-us](http://www.netscout.com/company/contact-us)