NETSCOUT.

nGenius for Flows

Advanced SupportforFlow,MIB-II, and IP SLA-Based Network and Application Performance Management

HIGHLIGHTS

· Integrated and pre-configured hardware and software solution for nGenius® for Flows

· Supports Flow data collection from NETSCOUT® nGenius® Collector hardware and virtual appliances

· nGeniusONE® combines with nGenius for Flows to provide visibility across data centers and remote networks both wired and flow data

· Unified views from Cisco™ NetFlow, J-Flow, sFlow®, NetStream, and IPFIX

· Robust reporting for collaboration among stakeholders

· Enterprise scalability and performance to meet the needs of large organizations

· Supports nGenius for Flows Global Manager or Standalone configurations

Product Overview

The NETSCOUT nGenius for Flows solution analyzes Flow-based data, as well as MIB-II, IP SLA, and IPPING data gathered by nGenius Collectors and dedicated high-density collection devices. nGenius for Flows:

· Presents the data in real-time screens and historical reports to accelerate problem resolution and improve capacity and infrastructure planning

· Leverages NETSCOUT's patented Adaptive Session Intelligence™ (ASI) technology and works with NetFlow, based on the Cisco NetFlow v9 datagram model. Other versions of NetFlow (e.g., Cisco® NetFlow, Juniper® J-Flow, sFlow, NetStream, and IP Flow Information Export (IPFIX)) are based on this structure.

The nGenius for Flows solution visualizes:

· Application Flow-based data from datagrams
· Network and application response time metrics from IP SLA test results
· Quality of Service (QoS) configuration and statistical information from the Cisco® Class-Based QoS MIB (CBQoS), including Discard Packets, Discard Bytes, and Discard Bit Rates
· Voice over IP (VoIP) quality, including latency, jitter, packet loss, and mean opinion score (MOS) using Cisco IP SLA tests
· Utilization statistics from MIB II data

nGenius for Flows works with nGenius Collectors distributed at strategic sites across the network, gathering and aggregating Flow-based records and IP SLA test results. nGenius for Flows processes the Flow-based and IPSLA data, which is accessed in the form of contextual views and reports through a Web-based client. Single enterprise-wide software licensing and a flexible multi-tier architecture also make nGenius for Flows cost-effective for enterprises, government agencies, and commercial providers wanting to leverage Flow-based data as a source of application and network performance data. The scalability of this solution is further demonstrated in its support for a multi-server, distributed architecture, as well as a standby server, to protect against hardware failures and natural disasters.

| 51GF1L | | nGenius for Flows Server (Linux) |
| 91GF0L | | nGenius for Flows - Enterprise License (Linux) |

When combined with nGenius for Flows, the NETSCOUT nGeniusONE Network and Application Performance Management platform provides single-pane visibility across data centers and remote networks using NETSCOUT smart data generated from a combination of wired data and flow data in one solution.

Integrated Hardware and Software Simplify nGenius for Flows Rollout and Deployment

Our pre-configured nGenius for Flows hardware server solution simplifies the deployment process by providing everything needed in a single pre-configured, pre-licensed solution. The factory pre-integrated hardware and software minimize the tasks typically associated with installation, configuration, and maintenance, significantly reducing time required to deploy the nGenius for Flows solution.

SPECIFICATIONS
nGenius for Flows Specifications

nGenius for Flows Capabilities	Description
Supported NetFlow Fields	• Source IP address (IPv4, IPv6) • Destination IP address (IPv4, IPv6) • Source port number (TCP, UDP) • Destination port number (TCP, UDP) • Layer 3 protocol (IP, ICMP) • Type of Service (ToS) • Autonomous System Numbers (Src ASN, Dst DSN) • Direction • Octets • Packets • Input-Interface • Output-Interface
Supported IP SLA Tests	• ICMP Echo • DNS • TCP Socket Connect • DHCP • Web Page Retrieval • UDP Jitter
Supported MIB-II Metrics	• Volume (In, Out, Total) • Packets (In, Out, Total) • % Utilization (In, Out, Total) • Bit Rate (In, Out, Total) • Packet Rate (In, Out, Total) • Broadcasts (In, Out) • Multicasts (In, Out) • Errors (In, Out) • Discards (In, Out) • CRC Errors (In, Out) • Queue Discard Bytes • Queue Discard Packets • Class Map Discard Bytes • Class Map Discard Packets

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nGenius for Flows Platform Requirements

Requirements	Specifications
Data Source	· 3400H running v6.2.1 or later · 3300/TS running v6.0.1 or later · 3300D/LS running v6.0.1 or later · VI3300 virtual appliance running v6.0.1 or later
Operating System	· CentOS 6.5-7.8 · Red Hat Enterprise Linux v6.5-7.8 · Windows 2012, 2012 R2, and 2016
Server Memory	50 simultaneous sessions · Minimum: 48GB · Recommended: 64GB 100 simultaneous sessions · 128GB
Client OS	· Windows 10 · CentOS 7.x
Client Browser	· Chrome 80 or higher · Firefox 75 or higher · Edge 44 or higher · Safari 13 or higher · IE 11 (not recommended)

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SPECIFICATIONS
nGenius for Flows Server Specifications

Network Ports	4 Port Gigabit Ethernet (RJ45) 1 Port Gigabit Ethernet (RJ45) 8TB
iDRAC (IPMI)	(4x2TB RAID 5) Secure, hardened, embedded Linux operating
Storage	system Dual 10-Core 2.2GHz 64GB 2 Rack Unit (2RU) 3.4 in (87
Operating Environment	mm) Height;
CPU	19 in (482 mm) Width; 29.9 in (760 mm) Depth 63 lbs (28.6 kg) 750W AC: 100–240VAC
Memory	auto ranging, 50-60Hz 10-5A 2891 BTU/Hr Four-fan assembly unit
Rack Unit	10° to 35°C (50° to 95°F) -40° to 65°C (-40° to 149°F) 10% to 80%
Dimensions	with 29°C (84.2°F) maximum dew point. Atmosphere must be non-condensing at all times. 5% to 95% (non-condensing twmax=33C)
Weight	0.26G at 5Hz to 350Hz in all orientations
Power Rating (AC)	1.88G at 10Hz to 500Hz for 15 minutes (all six sides tested)
Maximum Consumption (AC)	Six consecutively executed shock pulses in the positive and
Heat Dissipation (AC)	negative x, y, and z axes of 6 G for up to 11 ms
Fans	Six consecutively executed shock pulses in the positive and
Operating Temperature	negative x, y, and z axes (one pulse on each side of the system) of
Storage Temperature	71 G for up to 2 ms
Operating Relative Humidity	Up to 3048 m (10,000 ft)
	Up to 12,000 m (39,370 ft)
Storage Relative Humidity	Regulatory M/N: E38S, FCC (US only) Class A, ICES (Canada) Class A, CE Mark (EN55032 Class A, EN55024, EN61000-3-2,
Operating Vibrations	EN61000-3-3), VCCI (Japan) Class A, BSMI (Taiwan) Class A, RTM
Storage Vibration	(Australia/New Zealand) Class A, SABS (South Africa) Class A, CCC (China) Class A, KC (Korea) Class A, EAC (Russia), BIS, India, C
Operating Shock	Mark (Morocco), NOM (Mexico), UL 60950- 1, CAN/CSA C22.2 No. 60950-1/62368-1, EN 60950, IEC 60950-1/62368-1, TUV-GS
Storage Shock	
Operating Altitude	
Storage Altitude	
Regulatory and Agency Approvals	

Notes:
1) nGenius for Flows Server does not include a monitor.

nGeniusONE Network and Application Performance Management Platform

nGeniusONE is a real-time information platform that provides a single pane of glass to view the network, application and services delivery performance of data, voice, and video. This enables network operators to manage both the availability and quality of the user's experience.

Available on both hardware and virtual platforms, nGeniusONE leverages NETSCOUT smart data as a universal source for providing smarter analytics for end-to-end visibility throughout private, virtualized, public, and hybrid cloud environments.

ASI Technology

ASI technology transforms wire traffic into smart data, providing real-time visibility into user experience for the most advanced and adaptable information platform to ensure security, manage risk, and drive service performance.

LEARN MORE

For more information about nGenius for Flows, please visit:

www.netscout.com/product/ngenius-flows

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