

NetFlow for Performance Management

NetFlow in Real-Time at Scale

Flow-based monitoring and analysis are essential tools of network management and troubleshooting, ensuring that enterprise and service provider networks are meeting user and application requirements and meeting service level agreements. The SevOne network performance management solution seamlessly integrates the industry's highest capacity flow collection and reporting with SevOne's highly parallel, polling-based monitoring to provide real-time troubleshooting, traffic analysis, and capacity planning—at a scale that is simply unmatched by other vendors. Most service impacting events are preceded by changes in key performance indicators such as network, CPU, memory utilization, or response time anomalies. SevOne's automated baseline and threshold-based alerts monitors millions of performance indicators and billions of baselines to detect critical performance changes prior to service impacting outages.

"One of the major challenges facing any ANPM solution is scalability for data collection, analysis, and presentation / reporting. I was impressed by SevOne's best in class scale for flow record collection and lightning-fast viewing and reporting enterprise-wide."

Jim Frey
[Enterprise Management Associates](#)

Integrated Troubleshooting and Traffic Analysis

SevOne provides the most powerful integration of metric and flow reporting in the market today. When troubleshooting an alert such as a spike in utilization, SevOne provides one-click navigation to flow reports that instantly show the associated traffic for the exact period of time for that specific interface. This integration of raw flows into the troubleshooting workflow speeds problem resolution, and saves valuable time and effort when trying to understand and answer the who, what, when and where questions regarding traffic on your network. Further, through the Universal Metric to Flow feature, users can associate metrics from data sources other than SNMP, such as Cisco IP SLAs, JMX, and WMI, with flow data to provide the same one-click navigation.



One-Click Metric to NetFlow Navigation

Most Scalable NetFlow Solution

The SevOne performance management solution is delivered as a distributed network of turnkey appliances, where each system is a collector, a reporter and a distributed storage system. The robust peer-to-peer software architecture with multi-threaded collection and distributed reporting algorithms scales from a single interface to tens of thousands of flow interfaces. The SevOne Performance Appliance

Solution (SevOne PAS™) is an all-in-one system that supports all polling and collection technologies including any flow technologies. The SevOne Dedicated NetFlow Collector (SevOne DNC™) appliance makes flow collection even more scalable and affordable, when extensive flow monitoring is required. A SevOne DNC collects up to 80,000 flows per second, or 5 million flows per minute, and can be peered with any number of SevOne appliances. A high-frequency SevOne DNC collects up to 200,000 flows per second, or 12 million flows per minute.

Patent pending reporting algorithms generate network-wide reports that utilize the computing resources of all SevOne appliances in parallel, enabling reporting capacity to be scaled in step with collection capacity. This innovative peer-to-peer appliance architecture reduces the complexity and footprint of the solution, and therefore the Total Cost of Ownership (TCO). Competing flow solutions require a central collection and reporting station to aggregate data from multiple collectors, and take hours to process and produce reports. With SevOne, users can always see network wide reports, no matter how large their network.

SevOne DNC appliances store up to seven days of raw flow data and one year of aggregated flow data, by default, including the Top 400 results, at one minute intervals for each report template and interface. As the only enterprise performance solution to store raw flows, users see every single flow that has traversed the network. This allows for troubleshooting of low bandwidth and high impact events such as DNS storms, something that is not possible with other flow-based solutions.

Lightning-Fast Reporting

SevOne utilizes the distributed processing power of its peered appliances for rapid calculation and display of data. SevOne produces up-to-the-second live reports for time spans measured in months, with the latest polled or collected data always represented. Configurable Flow Overview Report templates include top ten utilized interfaces, devices with highest packet drops, data latency, amongst many others.



Feature/Function	Benefit
Peer-to-peer architecture for SevOne PAS and SevOne DNC appliances.	Linearly scalable collection and reporting, and industry's highest capacity. Low TCO from ease of management.
Real-time reporting from any appliance using the distributed resources of all appliances in parallel.	Increases operations staff productivity. No extra bandwidth required for reporting, and no central reporter required.
Universal Metric to Flow – one-click navigation from an alert to detailed flow-based traffic analysis.	Greatly reduces troubleshooting time and provides fast isolation to the infrastructure component at fault.
One year of aggregated flows and Top 400 results at 1 minute, 15 minute, 60 minute, and 1 day intervals.	Granular reporting for capacity planning and anomaly detection with no external storage to manage.
Raw flow storage of up to 7 days at 1 second granularity.	Detects micro-spikes or short traffic bursts that can cause network disruption, that other tools can't see.
Over 30 stock collection and reporting templates, configurable by users.	Builds on industry best practices, and easily customizes to your applications and traffic.
Full Cisco Flexible NetFlow support. Easy configuration of over 200 fields.	Supports latest NetFlow innovations, protecting your investment; Medianet Performance Monitor compatible, NBAR, NAM and more.
Deep Flow Inspection for NBAR, MPLS, ToS, and QoS with DSCP support.	Improves accuracy of application recognition and depth of troubleshooting and analysis.
Supports all flow types: Cisco v5-v9 and ASA, IETF IPFIX, HP/Redback/Extreme sFlow, and Juniper J-Flow.	Open architecture for flow collection provides long term investment protection.
Flow data collection from Cisco NAM (Network Analysis Modules).	Provides response time metrics like Network Delay, Application Delay, and Total Delay.

Platform Requirements

The SevOne PAS and SevOne DNC are delivered as a turn-key appliance solutions, configured for the number of interfaces and flows per second required. No additional software or hardware is necessary. The SevOne solution footprint is one third that of comparable solutions, supporting your green IT initiatives.

About SevOne

Founded in 2005, SevOne is headquartered in Wilmington, Delaware. SevOne provides the world's most scalable performance monitoring platform to the world's most connected companies. SevOne's patented architecture, the SevOne Cluster™, leverages distributed computing to effectively collect millions of key performance indicators and to provide proactive alerts when performance deviates from normal. SevOne's platform provides a single source of truth for future-ready customers including global enterprises, finance and healthcare companies, CSPs, MSPs and MSOs.