SEVONE DATA APPLIANCE:

REAL-TIME NETWORK AND INFRASTRUCTURE PERFORMANCE MONITORING.

SevOne Data Appliance, a family of on prem metric, flow, log and user experience appliances based on the SevOne NMS Cluster™ Architecture, has the proven scale to meet the data extraction and data enrichment needs of the world's largest networks, transforming raw data into actionable, real-time insights to meet the agility, reliability and business efficiency needs of large enterprises, CSPs and MSPs. SevOne

Data Appliance extracts the broad range of metric, flow, log, experience and meta data from all layers of virtual and physical networks and infrastructure. Leveraging a growing set of data enrichment techniques including automated baselining, anomaly detection and topology awareness, SevOne Data Appliance helps reduce service delivery risk through integrated alerting and reporting.

EXTRACT.

Extract billions of data points a day you need from across your multi-vendor network and infrastructure—including metric, flow, log, experience and/or meta data

ENRICH.

Automated enrichment of your data including baselining, trending, topology awareness, alerting, reporting and more

STORE.

Store raw data and enrich it for reporting purposes while making it available to external business systems and/or SevOne Data Insight

WHY SEVONE DATA APPLIANCE FOR METRICS?

SevOne Data Appliance NMS is today's fastest, most scalable and most comprehensive metric data collection, monitoring, reporting and analysis solution. SevOne Data Appliance supports the extraction, enrichment and storage of billions of data points a day from across the largest multi-vendor enterprise,CSP, and MSP networks and infrastructure.

Be Software-Defined Ready
- Real-time collection and topology awareness for: Cisco ACI, OpenStack, VMware vCenter, Mesos, Docker and Kubernetes

Easily Monitor SLAs
- Guarantee availability and improve customer satisfaction

Get Real-time and Historical Reports
- Ensure customer and end-user success and transparency, with visibility across the business

Monitor Any Device
- Leverage a library of thousands of different device types. View the entire infrastructure, including network, compute, storage, power and cooling. Analyze data from anything with a time-stamp

"Out of the Box" Support
- Automatically integrate metrics from thousands of different devices and technologies with built-in support for extracting metrics using a variety of methods including: DNS, HTTP, ICMP, IP SLA, ACI, VMware, JMX, NBAR, Proxy Ping, SNMP, WMI and more

Not Supported "Out of the Box"? SevOne Can Help
- Retrieve or import any data that can be made available in a flat file format. SevOne Data Appliance has the ability to programmatically parse CSV, XML, JSON and other file types through the creation of SevOne Data Collectors. SevOne Data Collectors exist today for streaming network telemetry data from Cisco IOS XR, Cisco NX-OS and Juniper JTI. SevOne Data Collectors for next generation SDN and SD-WAN based networks including Cisco ACI, Cisco SD-WAN and more are also available

Enable REST-based API Platform Automation
- Automate platform operations actions such as the creation, deletion and updating of objects, devices, sources, metadata, alerts, policies, groups, reports and maps

Make the Most of Your Resources
- Optimize the economics of the business today (e.g. datacenter power/cooling analysis, server and CPU/workload utilization)

Plan for Capacity
- Confidently plan for needs like WAN links, CPU utilization and power usage

Baseline at Scale
- Automatically baseline every data metric you collect and get alerts when real-time performance deviates from historical norms

Get Answers in Seconds
- Consolidate disparate tools into a single platform and dashboard

Give Context to Your Infrastructure
- Discovery and topology of L2/L3 device relationships with real-time status overlays for Cisco ACI, MPLS LDP tunnels and VMware-based infrastructure. Relationships are stored as metadata and can be accessed via a topographical display or the SevOne API

Plan for Maintenance Windows
- Proactively create, view, edit and delete device level maintenance windows via UI or REST API

WHY SEVONE DATA APPLIANCE FOR FLOWS?

With real-time flow analysis, the SevOne Data Appliance DNC helps you pinpoint potential problems on the spot. SevOne Data Appliance not only allows you to quickly and easily spot bandwidth hogs and wasteful traffic; it also gives you insight into how specific applications are using your network. This information is critical when it comes to prioritizing traffic and creating policies that help eliminate waste.

Identify Rogue Applications
- View and customize lists of recognized applications attained through port-based identification
- Use "Type of Service" (ToS) Filters to identify the traffic running on your network, non-approved applications consuming bandwidth, and the impact on your Quality of Service (QoS) policies

Pinpoint Top Talkers
- Quickly identify what type of traffic contributed to a spike, resolve DNS issues and check the "Next Hop" using the SevOne Top Talkers report

Gain Immediate Access to Historical Data
- Store up to seven days of raw flow data and one year of aggregated flow data at one-minute intervals for each report template and interface

Troubleshoot DNS Storms
- Troubleshoot low bandwidth and high impact events like DNS storms

Detect Micro Spikes
- Use one-second visibility of raw data to see small bursts of traffic that other tools miss

Flow Alerting and Enhancements
- Create policies and thresholds and generate alerts based on flow data

Broad and Scalable Flow Support
- Avoid being limited to predetermined fields or templates, with the ability to monitor NetFlow v5/v9, Flexible NetFlow, Citrix AppFlow, Cisco NAM, Cisco Medianet, Cisco AVC, NBAR/ NBAR2, IPFIX Object Template support, NetFlow variable length support, sFlow, NetStream, Juniper J-Flow, and 200+ other available fields of NetFlow
- Collect up to 12 million flows per minute, and grow data collection infinitely as part of the distributed SevOne NMS Cluster architecture

WHY SEVONE DATA APPLIANCE FOR LOGS?

With the SevOne Data Appliance PLA, you can move beyond traditional log search, into real-time troubleshooting of log data at scale. That's because the SevOne Data Appliance can extract terabytes of log data daily and correlates it to performance events, thereby eliminating the need for search in your process.

Automated Log Analytics

- Automatically correlate real-time performance metrics with log data
- Improve visibility of the root cause of performance degradation
- Receive proactive alerts of customer and end-user behavioral trends
- Get targeted and intelligent anomaly detection using multiple log metrics across many devices in real-time
- Leverage multi-variable alerting of log data to identify issues and trends

Integrated Troubleshooting

- Integrated Decrease time-to-troubleshoot with integrated metrics, flow and logs
- Eliminate timely error code analysis with fully configurable value-based lookups
- Gain a greater understanding of how configuration changes impact application performance

Customize Your Log Analytics

- **SevOne 10-Day Certification** – Work directly with SevOne Support to have new and updated logs supported by your implementation
- **Do It Yourself** – Utilize the SevOne Application Key Builder on Connect.SevOne.com to customize your log monitoring and analysis
- **Download Now** – Download from sets of existing Log Application Keys, supporting log types from across the industry, including syslog, statsD, Tomcat Perflogs, Apache logs, Unix Error/ Cron logs, Cisco, Juniper, F5, Microsoft, and more on Connect.SevOne.com

WHY SEVONE DATA APPLIANCE FOR USER EXPERIENCE DATA?

Software, applications and services running on the network infrastructure are the lifeblood of every carrier and large enterprise. And, the ability to detect and rapidly resolve problems with these applications and services can mean the difference of millions of users, dollars in revenue, or hours in productivity. As a result, being able to understand how well end users are experiencing a service or application has become a business critical requirement—whether it's hosted on premises, across a WAN infrastructure, in a hybrid cloud or delivered by a provider.

With SevOne Data Appliance EUE, a resell of AppNeta Performance Manager, users can quickly understand end user experience. By actively testing entire network paths via synthetic traffic and user can collect and analyze in-depth end-user experience data across enterprise, cloud and communication service provider infrastructures. Now you can easily measure actual application and service performance and directly correlate it to the network and digital infrastructure that's responsible for delivering it. Whether you're looking to measure over Wi-Fi access points to local or remote servers, over the mobile infrastructure, over VPN to remote offices, or over the Internet to Web applications and into cloud services, SevOne Data Appliance - EUE allows you to gather and integrate user experience with other metric, flow and log data as part of your SevOne Data Platform deployment.

Monitor Any Network Without Impacting Production Applications

Get insight into any network, even cloud providers', by sending and receiving precisely timed network traffic, so you can assess performance in real time. Always-on monitoring gives one-minute granularity on latency, data loss and jitter, stored for up to a year, while providing insight into actual versus provisioned capacity.

Correlate Application and Network Performance

With application-based SLAs, SevOne User Experience automatically knows when network performance blips are just blips, and when they're affecting your end users. A continuous stream of performance insight is compared against your application specific SLAs, so you know exactly when and how network performance impacts application performance.

Find and Fix Problems Fast on Any Digital Infrastructure

Troubleshooting application response issues often require network, system and infrastructure teams to work together. With SevOne User Experience, multiple teams can actively test, troubleshoot and pinpoint issues across the entire path applications take, including user, network, server, databases and more. With an optional software license, you can enable up to 10Gbps deep packet inspection for further details on application traffic. With SevOne User Experience, you can gain valuable insight, and drive cross team collaboration that can reduce mean time to resolution opposed to time to innocence.

Measure Critical SaaS solutions: Salesforce, Office 365, Google Apps and More

Measure performance, functionality and availability directly from the end user's perspective, using a real web browser. Get started in minutes with our Quick Start Workflows for Salesforce, Office 365, Google Apps and more. Quick Start Workflows are especially helpful because they enable you to monitor apps from the end user, through the network, to the app provider.

Support Custom Applications

Create custom workflows and string together up to 20 commands, execute them back to back, measure the result, and get performance alerts. You can also replay workflows from a consistent environment to highlight any change in application performance.

Every Detail, Every Important Transaction

Get every detail of important transactions in your web app, and break down the source of all latency by browser, application or network. The appliance also enables you to pinpoint when problems started, with full waterfall charts for every transaction in the last 30 days. Finally, you can and identify larger trends with up to a year of historical data.

Deploy Anywhere Users Are, Inside and Outside the Firewall

The best place to measure user experience of web applications is from your end users' locations. Using the appliance you can combine usage from multiple monitors to identify trends across different locations and isolate all kinds of problems—from global slowness to congestion at a single office.

Leverage Your TWAMP-enabled Infrastructure

Measure the round trip performance from any two points in your TWAMP-enabled IP infrastructure with built in support for the Two Way Active Measurement Protocol (TWAMP).

WHAT KIND OF DATA IS SUPPORTED?

Data Collection Type	Protocols and APIs Supported
Polling Technologies	SNMP v1-v3, ICMP, DNS, HTTP, NBAR, QoS
Flow Collection	NetFlow versions 5-9, IPFIX, sFLow, J-Flow, Citrix AppFlow
Response Time	IP SLA, ICMP, TCP Port Response, HTTP, and URL
VoIP Telephony	RTCP, SIP, and SOAP
Servers and Applications	SNMP, WMI, JMX, vSphere API, and Process Polling
3rd Party Data	SOAP API, xStats
Log Data	Syslog, statsD. Tomcat Perflogs, Apache logs, Unix Error/Cron logs, Cisco, Juniper, F5, Microsoft & more
User Experience Data	Packet Loss, Latency, Round Trip Time, QoS, Number of Hops, Available and Utilized Capacity, Data and Voice Loss, Data and Voice Jitter, MOS, Total Time (Network, Server, Browser)

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