

Network Observability

Highlights

- Gain complete hybrid cloud network visibility
- Take advantage of machine learning-based insights
- Understand more with advanced visualizations
- Turn insights into actions automatically

IBM SevOne

Optimize IT operations with insight and action from application-centric network observability

The traditional model of applications running on a single server is obsolete. Today's modern applications span a complex and distributed network of compute and storage resources, virtual machines, containers, and cloud environments. While enterprises invest heavily in applications to drive digital transformation and improve customer engagement, poor network observability can severely impact user experience and business outcomes. Organizations need intelligent automation that eliminates repetitive tasks, accelerates troubleshooting, and enhances network performance—all without increasing operational complexity.

IBM SevOne®: Delivering Network Insights for Modern IT Environments

IBM SevOne combines network observability with intelligent automation and ML-driven insights. This



solution enables organizations to automate network tasks, optimize service delivery, and reduce operational overhead, helping teams shift from reactive troubleshooting to proactive optimization.

Key Capabilities

IBM SevOne offers a comprehensive solution for hybrid network management. By analyzing raw network data from across the delivery chain, the product provides machine learning-driven insights to help NetOps understand network performance and its impact on applications.

Network Insights: Leverage machine learning to automatically identify normal and abnormal network behavior.

App-Centric Insights: View network performance data from an application perspective, enabling a more targeted approach to optimization.

Automated Actions: Use enhanced tooling and automation to optimize network performance, reducing manual effort and improving efficiency.

Building on the strength of the IBM SevOne platform, there is IBM SevOne [Automated Network Observability](#) (SANO), a suite that combines IBM SevOne's network observability capabilities with [IBM Rapid Network](#)



Hybrid Cloud Network Observability

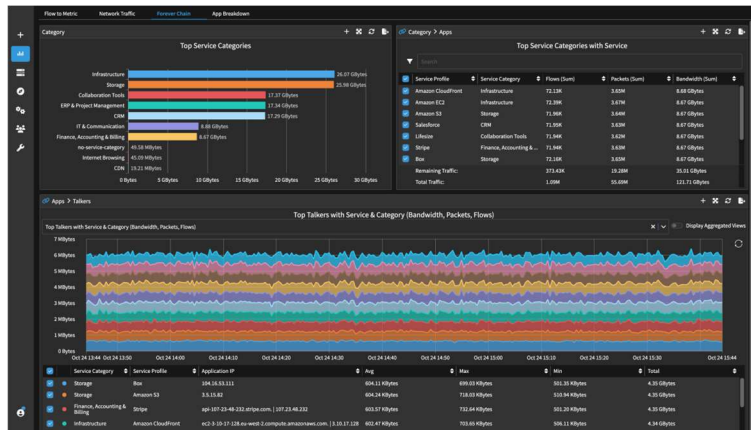
Automation, a low-code network automation solution from IBM's [2024 acquisition of Pliant](#). This integration equips IT teams to act quickly by converting actionable insights into automated network responses.

Comprehensive Hybrid Cloud Network Visibility

SevOne provides comprehensive visibility into hybrid networks by collecting and analyzing multivendor performance data from physical, virtual, and software-defined infrastructure. The solution uses polling and NetFlow to deliver actionable insights for managing complex, hybrid cloud environments.

Key Features and Benefits:

- **Broad Device Monitoring:** Gain end-to-end visibility across routers, switches, firewalls, load balancers, physical and virtual servers, and more.
- **Cloud Resource Monitoring (AWS, Azure, GCP, Kubernetes):** Track AWS resources such as EC2, S3, Transit Gateways, Direct Connect, NAT Gateways, VPNs, Elastic Block Store (EBS), and Network Load Balancers (NLBs), as well as Azure components like Virtual Machines, Load Balancers, VPN Gateways, ExpressRoute, and Storage Accounts. Now you can also track Google Cloud Platform (GCP) resources such as Compute



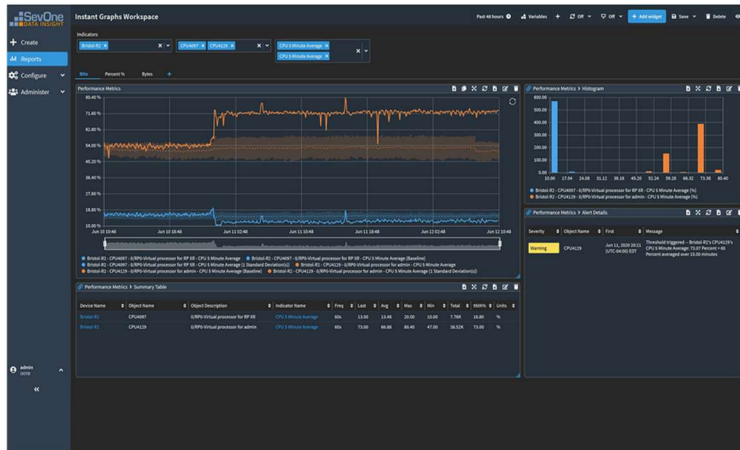
Flow Analysis

Instances, GCP Cloud Router, Cloud Storage and GCP Interconnects.

- **Next-Generation Network Support:** Monitor software-defined networks (SDN), Kubernetes-based environments, wide area networks (WANs), and Wi-Fi networks from a unified dashboard. Teams can visualize performance data for SD-WAN tunnels and paths collected across HPE Aruba SD-WAN (formerly SilverPeak), Cisco SD-WAN, Versa, Fortinet, and Nuage for Nokia SD-WAN.
- **Integrated Data Collection:** Leverage built-in support for extracting network metrics and flow data using protocols such as SNMP, WMI, NetFlow, IPFIX, eBPF, and more.
- **Rapid Device Support:** Deploy new SNMP-based devices for monitoring within a guaranteed SLA of 10 business days.
- **API-Based Automation:** Use REST APIs to automate device provisioning, metadata updates, alert management, and report generation.

Leverage Machine Learning for Proactive Issue Resolution

IBM SevOne employs ML-driven analytics to detect and address network anomalies before they escalate into performance-impacting issues. This transition from



Automated Baselininig

reactive troubleshooting to predictive network optimization ensures seamless application performance.

Key Machine Learning Capabilities:

- **Automated Performance Baselines:** Establish historical performance baselines and receive alerts for deviations in real-time.
- **Advanced Threshold Management:** Use flexible policies such as standard deviation from normal, time-over-threshold, and count-over-time to trigger intelligent alerts.
- **Programmatic Goal Lines:** Define and adjust SLAs dynamically based on real-time performance data.
- **Predictive Capacity Planning:** Forecast future network requirements by analyzing real-time and historical data on bandwidth utilization, CPU load, and power consumption.
- **Maintenance Window Management:** Schedule, monitor, and manage maintenance windows via an intuitive UI or REST API, reducing unexpected downtime.

Enhanced Visualization and Reporting for Smarter Decision-Making

IBM SevOne offers intuitive dashboards and visualization tools that enable NetOps to understand network



performance, identify issues, and collaborate effectively across business units.

Key Reporting Features:

- **Application-Centric Observability:** Quickly determine whether performance issues stem from the application or the network, leveraging visibility into over 10,000 applications.
- **Ready-to-Use Dashboards:** Access auto-populating, customizable dashboards for network performance analytics, available in both light and dark themes.
- **LiveMaps for Real-Time Insights:** Visualize network topology dynamically, providing a single-source, interactive view of network health and performance.
- **Simplified Troubleshooting Workflows:** Establish repeatable, scalable troubleshooting workflows to streamline network issue resolution across teams.
- **Enhanced Interactivity:** Improve data correlation through seamless metric, flow, and alert visualization, reducing mean time to resolution (MTTR).

Automate Network Operations for Maximum Efficiency and Scalability



Proactive Issue Detection

SevOne enables deep automation, reducing the complexity of managing modern networks while enhancing operational efficiency.

Key Automation Capabilities:

- **Closed-Loop Automation:** Automate network configuration, provisioning, and management based on ML-driven insights.
- **Automated QoS Management:** Modify Quality of Service (QoS) policies dynamically in response to performance trends.
- **Intelligent Alerting & Deduplication:** Reduce alert noise by automatically deduplicating and enriching alerts before forwarding them to ITSM tools.
- **Automated ITSM Integration:** Streamline IT service management by automatically generating enriched ServiceNow tickets with IBM SevOne insights.
- **Self-Service API-Based Data Ingestion:** Integrate network data from AWS, Azure, GCP, Kubernetes environments, and third-party monitoring tools for enhanced flexibility and control.

Why Choose IBM SevOne?

SevOne provides application-centric, ML-driven hybrid network observability that enables NetOps teams to proactively detect, resolve, and prevent network performance issues. With seamless automation, intelligent analytics, and integration with industry-leading IT ecosystems, IBM SevOne optimizes network reliability and business efficiency.

- [Devereux](#) detects 40% of issues before they impact end users.
- [BT](#) eliminates 3+ hours of downtime per incident by proactively detecting SAN capacity issues.

Industry Recognition

*“The IBM SevOne platform has a strong approach to passive network data collection. It offers solid synthetic network data monitoring and provides strong observability of networking in cloud. Overall, the product is resilient and scales to very large networks.”- **Shamus McGillicuddy, Vice President of Research, Enterprise Management Associates***

Ready to modernize your network observability?

[Book a live demo](#)

To learn more about how you can optimize your modern network and meet your organization's agility, reliability, and efficiency needs, visit [IBM SevOne](#)

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