CYBERSECURITY INNOVATIONS POWERED BY AI

# BitSecure®

## Network Monitoring System (NMS)

End-to-end network observability with AI-powered analytics, real-time fault detection and automated performance optimization across enterprise and telecom infrastructure.

**80%**
Faster Incident Detection

**70%**
Reduction in Troubleshooting Time

**90%**
Visibility Across Distributed Infrastructure

## THE CHALLENGE

### Top 5 Industry Challenges (If Network Monitoring System is NOT Implemented)

- **Unplanned Network Downtime & Business Disruptions** - Without centralized monitoring, organizations struggle to detect failures in routers, switches, firewalls, WAN links, and applications in real time. This results in prolonged outages, productivity loss, SLA breaches, and revenue impact for business-critical operations.
- **Lack of Visibility Across IT Infrastructure** - Enterprises operating across branches, data centers, cloud, VSAT, and hybrid environments face blind spots without unified monitoring. IT teams cannot identify bandwidth bottlenecks, packet drops, latency spikes, or device failures proactively.
- **Slow Incident Detection & Root Cause Analysis** - Manual troubleshooting consumes significant IT resources because faults are detected only after users complain. The absence of intelligent alerts and correlation delays Mean Time to Resolution (MTTR), impacting customer experience and operational continuity.
- **Security & Compliance Risks** - Without syslog monitoring, firewall visibility, and configuration tracking, suspicious activities and policy violations often go unnoticed. This increases exposure to cyberattacks, unauthorized configuration changes, and audit non-compliance.
- **Inefficient Management of Multi-Vendor Networks** - Modern enterprises use Cisco, Juniper, HP, Fortinet, wireless controllers, and mixed infrastructure environments. Without centralized NMS, IT teams rely on multiple tools and manual processes, increasing operational complexity and management costs.

## KEY BENEFITS

**Reduced Downtime & Improved Availability**
Proactive monitoring with intelligent alerts helps IT teams identify failures before they impact business users. Organizations can reduce network downtime by 50–80% through real-time visibility and faster remediation.

**Faster Root Cause Analysis & Incident Resolution**
Advanced diagnostics, latency analysis, packet monitoring, and threshold alerts enable rapid fault isolation. This can reduce troubleshooting time by nearly 60–70%, improving IT team efficiency significantly.

**Centralized Monitoring for Complete Infrastructure Visibility**
NMS provides a single-pane view of routers, switches, firewalls, access points, VSATs, VoIP systems, and WAN links. This improves operational control and reduces dependency on multiple monitoring platforms.

**Better Network Performance & User Experience**
Continuous bandwidth, jitter, CPU, memory, and traffic monitoring helps optimize application and network performance.Enterprises can improve network utilization efficiency by 30–40% while reducing packet loss and latency issues.

**Enhanced Security & Compliance Monitoring**
Integrated syslog monitoring, configuration backups, audit trails, and SIEM capabilities improve threat visibility and governance. Organizations gain better compliance readiness while reducing security incident response times.

KEY CAPABILITIES

# One Unified Agent

## 01 Infrastructure & Device Monitoring

- Router Monitoring
- Switch Monitoring
- Firewall Monitoring
- Wireless Controller Monitoring
- Access Point Monitoring
- VSAT & Microwave Monitoring
- Multi-vendor support (Cisco, HP, Juniper, Fortinet, etc.)

## 02 Performance Monitoring

### Real-Time Metrics

- Latency Monitoring
- Packet Drop Monitoring
- Jitter Monitoring
- CPU & Memory Utilization
- Temperature Monitoring
- Interface Bandwidth Utilization
- WAN Link Monitoring
- CRC Error Detection

### Threshold & Alerting

- Multi-level threshold configuration
- Intelligent alerts
- Threshold breach logging
- SLA monitoring
- Availability monitoring

## 03 Network Traffic & Flow Analytics

- NetFlow Analyzer
- Top Talkers Identification
- Top Protocol Analysis
- Application-wise Traffic Analysis
- Source/Destination IP Bandwidth Tracking
- Traffic Visualization Dashboards
- Network Flow Topology Mapping

## 04 Topology & Visualization

- Dynamic Network Topology Mapping
- Hierarchical Device Views
- Custom Dashboards
- Visual Network Flow Diagrams
- Multi-location Monitoring
- Centralized Visibility Across Branches

## 05 Configuration & Change Management

- Router/Switch Configuration Backup
- Scheduled Backup Automation
- Change Tracking
- Configuration Restoration
- Firmware/IOS Upgrade Management
- Audit Trail Monitoring

## 06 Protocol & Routing Monitoring

- BGP Routing Table Monitoring
- OSPF Monitoring
- IP SLA Monitoring
- Interface Availability Monitoring
- Protocol Traffic Monitoring
- Routing Table Visibility

## 07 Wireless & Remote Connectivity Monitoring

### Wireless Monitoring

- SSID Visibility
- Connected User Monitoring
- Wireless Traffic Analytics
- Access Point Health Monitoring

### VSAT Monitoring

- Gilat Monitoring
- I-Direct Monitoring
- SNR Monitoring
- Satellite Link Availability
- Remote Site Traffic Analytics

## 08 Security & SIEM Integration

- Syslog Monitoring
- Real-time Event Collection
- Threat Notification
- User Activity Monitoring
- File Integrity Monitoring
- Firewall Rule Scanning
- DDOS & TCP Flood Detection
- Security Dashboards & Reports

KEY CAPABILITIES

# One Unified Agent

09 Reporting & Operational Intelligence

- Scheduled Reports
- Automated Email Reports
- Customizable Dashboards
- Historical Performance Reports
- SLA Reports
- Graphical Analytics
- Trend Analysis

ADD-ON AVAILABLE

Need 24/7 coverage? Add Velox MDR.

- India-based SOC analysts, 24×7×365
- 15-minute SLA for critical incidents
- Seamless activation — no new agent required

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VELOX®

THINK CYBER SECURITY... THINK VELOX

Velox Solutions is a Global cybersecurity OEM delivering advanced, AI-powered technologies that strengthen Security Operations and enterprise resilience since 14+ years. Our solutions enable faster threat detection, automated response, and deep visibility across users, endpoints, and infrastructure. Leveraging AI-driven SIEM, SOAR, and behavioural analytics, Velox builds proactive, intelligence-led SOC environments, empowering government and enterprise sectors to stay ahead of evolving cyber threats.

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