Product Overview

Flex-iNMS by **FlexSolv** is a comprehensive network performance monitoring solution designed to meet the needs of modern, complex enterprise networks. It provides real-time visibility, automated performance analysis, and predictive insights, helping organizations optimize network performance, ensure high availability, and proactively address potential issues. With its broad device and protocol support, **Flex-iNMS** scales seamlessly from small networks to global infrastructures, supporting physical, virtual, and cloud environments.

Key Features

- **Real-Time Network & Infrastructure Monitoring**
- Track millions of performance metrics per second across physical, virtual, and cloud-based environments in real-time, ensuring no blind spots in network visibility.
- **End-to-End Performance Visibility**
- Comprehensive monitoring across the entire network infrastructure, including routers, switches, firewalls, servers, load balancers, and more. Multi-vendor support ensures compatibility with a wide range of devices.
- **Advanced Analytics & Visualization**
- Leverage powerful analytics to track key performance indicators (KPIs), identify patterns, and detect anomalies. Customizable dashboards and reports provide insights at-a-glance for decision-makers.
- **Predictive Analytics & Machine Learning**
- Use AI-driven insights to forecast performance issues, predict capacity needs, and automate problem resolution before service degradation occurs.
- **Flow-Based Monitoring**
- Gain deep visibility into traffic patterns using flow analysis technologies. Monitor bandwidth usage, identify traffic bottlenecks, and optimize resource allocation with detailed flow records.
- **Log & Event Correlation**
- Correlate network logs, syslogs, and events in real-time to streamline troubleshooting and enhance root-cause analysis. Cross-reference log data with performance metrics for faster incident resolution.
- **Distributed Architecture**
- **Flex-iNMS**'s scalable, distributed architecture ensures monitoring across the largest global environments without performance degradation, handling billions of data points daily.
- **Dynamic Baselines & Thresholding**
- Automatically create dynamic performance baselines for your network infrastructure, allowing **Flex-iNMS** to intelligently adjust thresholds and send alerts only when true anomalies occur.
- **Multi-Tenancy & Role-Based Access Control (RBAC)**
- Support for multi-tenant environments with granular RBAC ensures that different teams or departments have access to the data they need without compromising network security.
- **Capacity Planning & Trend Analysis**
- Leverage historical performance data to plan for future growth. **Flex-iNMS** provides tools to forecast capacity needs, enabling you to avoid bottlenecks and maintain service levels.

- **Comprehensive Reporting & SLA Monitoring**
- Generate automated reports to validate service-level agreements (SLAs), track uptime and downtime, and ensure network compliance. Customizable reports provide deep insights for audits and stakeholder presentations.
- **Cloud & Hybrid Environment Monitoring**
- Monitor performance across hybrid and multi-cloud environments, including AWS, Microsoft Azure, Google Cloud Platform, and VMware. Ensure seamless performance for your cloud services and infrastructure.
- **API-First Design & Integration**
- **Flex-iNMS** offers a robust set of REST APIs for integration with third-party systems, including ServiceNow, Splunk, and other IT operations tools. Its API-first architecture allows customization and automation for complex environments.
- **Network Automation Integration**
- Integrate with network automation tools to automate remediation workflows, enforce network configuration policies, and accelerate incident response.
- **Third-Party Application Monitoring**
- Extend monitoring to applications and services by integrating with third-party performance and application monitoring tools. Collect performance data across all layers of your IT stack.

General Usability

- **Comprehensive Interface**: Supports all performance management needs through a single, unified UI.
- **Intuitive User Experience**: Easy-to-use interface with streamlined functionality.
- **Authentication Support**: Local, TACACS, LDAP, Radius, and other authentication methods.
- **API Integration**: Connects seamlessly with external systems (BMC, Cognos, etc.).
- **Rogue Device Detection**: Automatically identifies and reports new or unauthorized devices.
- **Device Discovery**: Auto-discovery of all network-connected devices.

Reporting and Graphics

- **Simultaneous TCP Connections**: Tracks connections across WAN links and other optimized devices.
- **Data Processing**: Processes compressed and uncompressed bytes.
- **Graph Flexibility**: Option to detach graphs to separate windows.
- **Utilization Reporting**: Reports inbound/outbound utilization for any interface (MPLS, etc.).
- **Error Reporting**: Detects discards/drops, packet loss, FECN/BECN, CRC errors (inbound/outbound).
- **Device Data Collection**: Collects data like CPU, memory, disk, voltage, backup, charging.
- **Routing Protocols**: Analyzes BGP/EIGRP routes, intervals, drops, and SRTT.
- **QoS Reporting**: Supports QoS parameters for real-time, video, and transactional traffic.
- **Real-Time Reporting**: Instant reporting on collected performance stats for all reports.

- **Long-Term Reporting**: Create long term reports on as-polled data.
- **Non-Standard Device Support**: Monitors UPS, inverters, humidity sensors, and more.
- **Historical Metrics**: Track and visualize long-term performance (monthly, yearly).
- **Dynamic Zoom**: Real-time zoom to adjust reporting time frames.
- **Time Frame Selection**: Custom time frames for ad-hoc graphs and reports.
- **Export**: Export report data in PDF or CSV format.
- **At-a-Glance Reports**: Comprehensive device reports covering all interfaces, memory, CPU, packet loss, and battery.
- **Interface Reports**: Reports on physical/logical interfaces, errors, and discards.
- **Percentile Calculation**: 95th and 98th percentile-based historical reporting.
- **Business Hours Reporting**: Reports peak and average utilization during business hours.
- **Timezone-Agnostic Reporting**: Reports are localized to the user's time zone.
- **Graph Customization**: Supports various graph types (line, pie, stacked).
- **Multi-Metric Graphs**: Combine performance indicators from multiple devices.
- **PDF Conversion**: Convert multiple graphs into single PDF reports.
- **Mixed Plugin Reporting**: Integrates data from different plugins (HTTP response times, SNMP interface, NetFlow).
- **Scalable Architecture**: Supports large-scale networks with thousands of elements.
- **Scheduled Reporting**: Pre-scheduled HTML or PDF reports.
- **Saved Reports**: Save reports for future access.
- **TopN Reporting**: Generate TopN reports across monitored metrics.
- **TopN Time Frames**: Create reports for specific time frames (weekly, monthly, quarterly).
- **TopN Groups**: Generate TopN reports by device groups, locations, types.
- **TopN by Device**: Generate specific TopN reports for individual devices.
- **Traffic Composition**: Drill down into traffic composition details (NetFlow).
- **Situations to Watch**: Customizable alerts based on traffic, ports, hosts, applications.
- **Port Monitoring**: Detect used and unused switch ports.
- **Capacity Forecast**: Weekly/monthly trend forecasting.
- **New MIBs**: Easily load and compile new MIBs for reporting.
- **Global Availability Reports**: Report on device availability in custom groups.
- **WAN Utilization**: Track WAN capacity transfers.

User Management

- **Role-Based Access**: Assign specific permissions by device group or user.
- **Access Restriction**: Restrict users to view only permitted reports.

Alerting and Thresholding

- **Device-Specific Alerts**: Configure alerts by device or user-created groups.
- **Alert Delivery**: Email or page alerts to users.
- **Alert Scheduling**: Time-based alerts for specific zones.
- **Severity Levels**: Assign severity to different thresholds.
- **Graphical Alerts**: Visual representation of alert conditions.

- **Retest Conditions**: Auto-retest before acknowledging alerts.
- **Auto Clear Alerts**: Set auto-clear conditions for alerts.
- **Trap Configuration**: Create and alert on SNMP traps.

Traffic Composition Analysis and Management Reports

- **Default Traffic Reports**: Top Talkers, Conversations, and Flows.
- **Application-Level Stats**: In/out statistics by application.
- **Flow Drill-Down**: Drill down into conversations and application flows.
- **IP/Host-Level Traffic**: View specific IP addresses/hosts and their traffic data.
- **IP SLA**: Configure and monitor SLA metrics (latency, jitter, packet loss).

Data Collection

- **Polling Frequency**: Adjustable polling on a per-device basis.
- **Granularity**: Monitor at granularity levels down to 1 second.
- **Historical Reports**: Real-time reports on up to 2 years of stored data.

Technical Specifications

Category	Specifications
Monitoring Protocols	SNMP Poller, ICMP Poller, NetFlow Collector, NBAR Poller, Process Poller, HTTP Poller, WMI Poller, DNS Poller, TCP Port Poller, Proxy Ping Poller, IPSLA Poller, Custom Poller
Supported Devices	Routers, Switches, Firewalls, Servers, Virtual Machines, Load Balancers, Cloud, etc.
Data Collection Frequency	Configurable (as low as 1 second intervals)
Data Retention	Configurable (Short-term & Long-term storage)
Storage Options	On-premise, SQL/NoSQL databases, or Cloud Storage
Deployment Models	Cloud, On-premise, Hybrid
Scalability	Distributed architecture with support for global deployments
Integration	REST APIs, Webhooks, Syslog, ServiceNow, Splunk, etc.
User Interface	Web-based with fully customizable dashboards
Alerting & Notifications	Email, Webhooks, SNMP Trap
Security	SSL/TLS encryption, Role-Based Access Control (RBAC)
Data Export	CSV, JSON, XML, API
License Model	Subscription, Perpetual, or Metered Licensing
Supported Platforms	VMware

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FLEXIBLE SOLUTIONS

Benefits

- **Complete Visibility Across the Network**
- Gain a single source of truth for network performance by monitoring everything from data centers to remote offices, public and private clouds.
- **Reduced MTTR (Mean Time to Resolution)**
- Use machine learning and AI-powered insights to quickly detect and resolve issues, minimizing downtime and improving service availability.
- **Proactive Performance Management**
- Predict and prevent network bottlenecks or capacity shortages using dynamic baselines, automated alerts, and predictive analytics.
- **Seamless Integration & Automation**
- **Flex-iNMS** integrates with existing IT systems and enables workflow automation, ensuring a faster and more reliable response to performance issues.
- **Enhanced Security & Compliance**
- Ensure that network performance aligns with organizational policies and regulatory requirements through continuous monitoring and SLA compliance reports.

Use Cases

- **Enterprise Network Monitoring**
- Empower IT teams to monitor large, complex network infrastructures and ensure consistent performance across geographically dispersed locations.
- **Service Provider SLA Monitoring**
- Validate SLAs for service providers by continuously monitoring network performance and generating real-time reports.
- **Hybrid & Cloud Environment Monitoring**
- Monitor cloud services such as AWS, Azure, and Google Cloud alongside on-premise infrastructure to ensure optimal performance across the entire ecosystem.
- **Incident Response & Troubleshooting**
- Utilize event correlation and AI-driven diagnostics to quickly identify root causes and mitigate performance issues, reducing service interruptions.

System Requirements

Component	Minimum Requirements
CPU	8 cores (Intel Xeon or equivalent)
RAM	32 GB
Storage	1 TB (sufficient for 1-year data retention)
Operating System	VMWare
Network	1 Gbps Ethernet

Pricing & Licensing

Flex-iNMS offers flexible pricing models that cater to businesses of all sizes. Choose from subscription, perpetual, or metered licensing based on your network's size, data collection frequency, and storage needs. Contact FlexSolv for a personalized pricing plan.

Customer Success & Support

- **24/7 Global Support**
- Our dedicated support team is available around the clock to ensure maximum uptime and rapid issue resolution.
- **Onboarding & Training**
- Comprehensive onboarding, installation, and training services to help your team get the most out of **Flex-iNMS**.
- **Regular Software Updates**
- Stay up to date with the latest features, security patches, and performance improvements with regular software updates.
- **Professional Services**
- FlexSolv offers tailored services for custom integrations, network audits, and performance optimization to ensure your **Flex-iNMS** deployment is a success.