Flow-based monitoring (usually based on NetFlow or IPFIX standard) provides detailed insight into the network traffic with specification of its individual parts. This makes it suitable for effective administration and computer networks troubleshooting and at the same time allows detection of internal and external security threats, including those which are undetectable by security tools in common use.

Network and security administrators are facing a difficult task since they have to manage a complex IT environment and ensure its protection against more and more advanced and frequent attacks and threats. This requires the use of modern approaches and tools which enable them to manage a network in an effective manner and ensure its security. Therefore, most organizations are already using or considering deployment of a flow-based monitoring technology, preferably in a combination with an analysis of network behavior analysis (NBA).

Flow-based monitoring provides detailed information about who communicates with whom, when, how long, how often, using what protocol and how much data was transferred. These statistics enable real-time monitoring of network utilization, monitoring of user activities and services, optimizing network infrastructure, tracking use of the Internet and they are also suitable for security purposes in the form of attacks and threats detection or proving security incidents. This, however, requires an ongoing detailed data analysis, which is offered by follow-up behavioral analysis technologies (Network Behavior Analysis - NBA), which continuously analyzes the data in the network in order to detect any suspicious activities, anomalies, attacks or threats.
The FlowMon solution delivers the **IP flow-based monitoring** for all organizations and all networks from 10Mbps to 100Gbps. It provides network monitoring, security, troubleshooting, IP accounting and billing, capacity planning, user and application monitoring, data retention law fulfillment and more. The **Network Behavior Analysis** (NBA) module enables to automatically detect operational and security issues, which are undetectable by tools in common use (firewall, antivirus, IDS/IPS).

FlowMon solution represents plug-and-play solution that integrates all modules necessary for network traffic, performance and security monitoring.

**Network Monitoring**

Detailed network traffic monitoring (NetFlow, IPFIX, sFlow) for any organization (SMBs, enterprises, government, academic organization, ISPs) to provide complete network visibility.

**Security Monitoring - NBA**

Network Behavior Analysis (NBA) module uses automatic flow analysis to identify malicious activities, zero-day attacks and advanced persistent threats in network and to increase network security.

**GARTNER**

“**NBA is about higher visibility in the behavior of your network to cover gaps left by signature based mechanism.**”

Network Behavior Analysis Update, GARTNER

**Benefits of FlowMon Solution**

**Efficient Network Management & Processes**

- Operational and configuration issues are detected and identified immediately – before they cause nightshifts, downtime or resentful users and customers.
- Administrators are no more overloaded with operational problems and can concentrate on optimization of infrastructure and provided services.
- Network monitoring processes required by law or internal directives are fulfilled and fully automated.

**Secured Infrastructure**

- Infrastructure is better protected against new security threats (social engineering, inside attacks, data leakage, advanced persistent threats, sophisticated attacks, etc.).
- Security incidents are detected in real-time and it is possible to investigate and prove them.
- It is possible to eliminate illegal software and services or abuse of the network by employees.

**Cost Saving**

- Significant reduction of manual labor. Problems are solved fast and efficiently.
- Cost reduction resulting from lower damage caused by security incidents.
- Optimization of network application licenses, SLA and peering optimization, etc.

**References**

Please contact INVEA-TECH or INVEA-TECH partner for pricing and additional information about this product.

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