



SMARTHawk

Network-Wide QoS Visibility

Features

- Automatic Network Discovery
- Real-Time Network Visibility and Monitoring
- Supports OSPF, IS-IS and BGP
- Network-wide QoS Visibility
- Quick Diagnosis of Network Faults
- Network Analysis and Planning
- Fault and Alarm Management
- Charting and Reporting
- Analyze Path Packet Loss, Delay and Jitter

SmartHawk Benefits

- Rapid fault detection
- Reduced network downtime
- Improved customer satisfaction
- Lower operating costs
- Efficient network planning
- Proactive network maintenance
- Increased productivity
- No additional network load

Intelligent Troubleshooting and Diagnostics for IP Networks

SmartHawk utilizes patented Route Analytics technology to provide unique capabilities for intelligent troubleshooting and diagnostics of IP networks. It will ensure high network availability through rapid fault detection and root cause analysis

A major cause of IP network and application downtime is a direct result of logical flaws and misconfigurations of how data is routed through the network. SmartHawk solves these problems by becoming part of the “control plane” thereby providing real-time visibility into the dynamic operation of the entire network.

SmartHawk’s capabilities can be further leveraged to support VoIP deployments by reducing network and routing instabilities which are a recognized cause of VoIP quality and availability problems.

Real-Time Network Discovery and Visualization

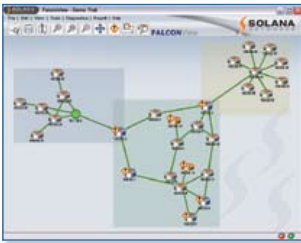
SmartHawk's proprietary technology allows for automatic discovery and visualization of your Layer 3 network in real-time. Using its clear and intuitive GUI, it is possible to quickly navigate your network and at the click of a button view routing details, attributes and metrics. Unlike SNMP solutions, SmartHawk 'listens' to the routing protocols and therefore does not add any load to your network.

Monitoring, Troubleshooting, and Intelligent Diagnostics

For improved network availability, SmartHawk continuously monitors networks and instantly alerts users of any potential problems. Difficult to diagnose problems such as link flapping, interface flapping and routing anomalies are all displayed in real-time. Advanced troubleshooting and root cause analysis can spot problems before they occur thereby reducing downtime and operating costs.

Network Planning and Analysis

Ever wish you could go back in time and correct something? SmartHawk allows for effective planning and management of network changes and growth. Prior to implementation, network engineers can simulate changes allowing for predictable impact on network availability and performance. You can now make those changes secure in the knowledge that your network will be configured properly and that costs have been optimized. Network planning has never been easier.



SmartHawk autodiscovers, monitors and visualizes multi-area networks in real-time



SmartHawk's intuitive and configurable alarming system instantly notifies the user of network problems

Specifications

Protocols	OSPF (multiarea)/IS-IS/BGP
Form Factor	1U Rackmount
Viewer Requirement	Windows 2000/NT/XP, Linux, Solaris
Dimensions	426 x 305 x 43.5 mm
Certification	CE/FCC Class A
Net Weight	8 kg
Power	90-260VAC, 50-60 Hz, 180 Watts
Network Interface	8-port 10/100 Base T
Operating Temperature	0° to 40°C
Storage Temperature	-20° to 80°C
Relative Humidity	10 to 90 % (non-condensing)

Custom Charts and Reporting

Custom charts and reports are readily available allowing for easy analysis of network trends. SmartHawk can plot historical and current data, which can aid in speedy resolution of network versus application conflicts. Quick reports can be generated for typical problem areas including: most active router, network anomalies, and routing activity. Printing and exporting capabilities give users the added benefit of further data analysis and archiving.

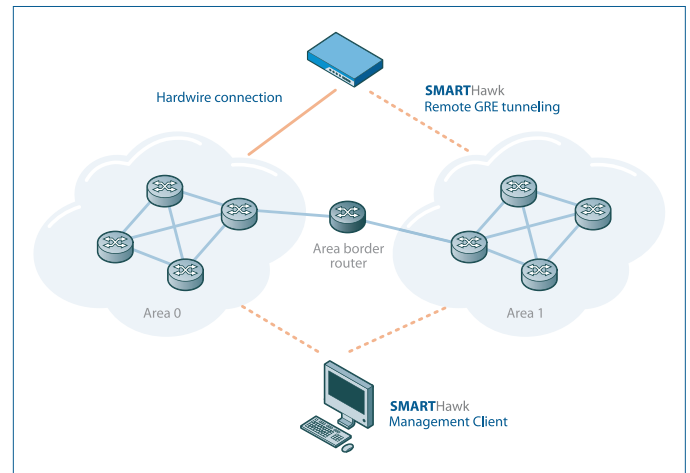
QoS Module

The SmartHawk QoS Module expands on the routing analysis capability by providing network wide visibility into QoS and traffic patterns. By leveraging the real-time network topology map it is now possible to provide end-to-end visibility of network wide traffic without the need for numerous and costly probes or sniffers. Moreover, unlike other tools, SmartHawk allows the user to automatically analyse "path QoS", rather than manually scrutinizing individual links.

BGP Support

With BGP support, users can have a single and complete topology map of their entire network with the ability to visualize the routing interaction between multiple domains running various routing protocols. SmartHawk provides broad insight into the routing health of the entire network instantly notifying of BGP instabilities prior to customer complaints of poor network performance.

SMARTHawk – Functional Diagram



Multiple Areas

SmartHawk supports visualization, monitoring and diagnostics of multi-area networks.

Remote GRE Tunnelling

A connection can be established to multiple network areas using either a physical or logical connection.

Management Client

SmartHawk supports multiple management clients



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