SMARTHawk - L2/L3

Comprehensive Network Visibility

Features

- Auto-discovery of routers, switches and end-systems
- Automatic network & topology mapping
- Integrated Layer 2/3 visualization of network map
- Ability to display VLANs and STP topology
- Traffic visualization and monitoring
- Layer 2/3 network path trace
- Network & topology change detection
- Network bottleneck detection
- Network performance troubleshooting

Benefits

- Full visibility into routed/switched networks
- Reduced network downtime
- Efficient network planning
- Network change management
- Proactive network maintenance
- Network inventory management
- Lower operating costs
- Improved customer satisfaction

End-to-End Network Discovery & Mapping

SmartHawk's unique integrated L2/L3 capability provides deep network discovery uncovering a rich set of network assets including routers, switches, hosts, servers and many other network devices/end systems. It automatically discovers the network map and connectivity of the Layer 3 and Layer 2 segments of your network. Its interactive GUI enables full network visibility, providing users with a powerful and efficient single pane of glass to monitor their network.

Leveraging a combination of Route Analytics and SNMP, SmartHawk L2/L3 not only maps the entire network, it rapidly detects network changes and provides a range of capabilities to combat downtime and poor network performance. It enables network administrators to easily monitor and manage their dynamically changing networks.

SmartHawk L2/L3 is suitable for a range of IP networks - from the SMB environment to the largest of IP networks including enterprise, carrier, WiFi, 3G wireless networks and SCADA industrial control.

Solana's SmartHawk L2/L3 is one of the most accurate network discovery solutions in the world, extremely fast in discovering the network topology and carrying out its functions in a lightweight, non-intrusive fashion.

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Network Discovery & Visualization

SmartHawk L2/L3 utilizes a combination of Route Analytics, SNMP and patented algorithms to automatically discover and visualize your end-to-end Layer 2/3 network. The discovered network inventory and map can be viewed through its powerful GUI. SmartHawk's synthesized data can also be exported for use in another tool.
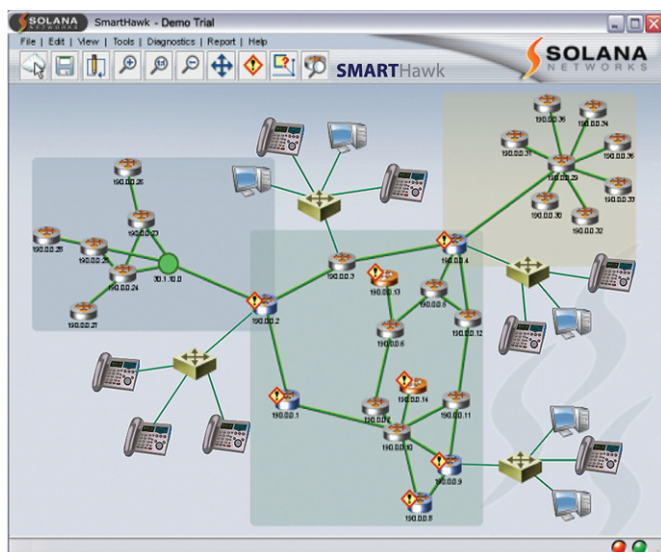
VLAN & Spanning Tree Operations

VLAN and Spanning Tree issues constitute one of the biggest problem areas for administrators of Ethernet networks - whether in the data centre or enterprise network. SmartHawk discovers VLAN and STP topologies and provides visibility into VLAN/STP related configuration issues.

Network Inventory & Topology Change

Today's dynamic IT networks consist of a diverse set of network and end system devices some of which connect to a network for a brief period of time. SmartHawk L2/L3's accurate and fast inventory discovery module allows the administrator to keep track of topology changes and detect differences in network inventory and topology at two different points in time.

Route Analytics

SmartHawk L2/L3 listens to routing protocols as well as utilizes SNMP to learn about the network. By listening to routing protocols such as OSPF and ISIS, SmartHawk L2/L3 gains visibility into how traffic is directed through the network and also provides a deeper understanding of the network's routing health and operations.

End-To-End Path Trace

SmartHawk L2/L3 enables the administrator to determine whether a path exists between any two points on the discovered network. The end-to-end path is illustrated on the network map, showing the routers, Layer 2 and Layer 3 switches traversed on the path between the two end-points.

Network Performance Monitoring

SmartHawk L2/L3 provides network visibility into traffic utilization, packet drops, network up time, and network class of service. Flexible reports can be generated for different network performance metrics. Administrators can proactively identify problem areas in their network or quickly pinpoint problems as they arise.

SMARTHawk - Single Pane of Glass

SMARTHawk - Deployment
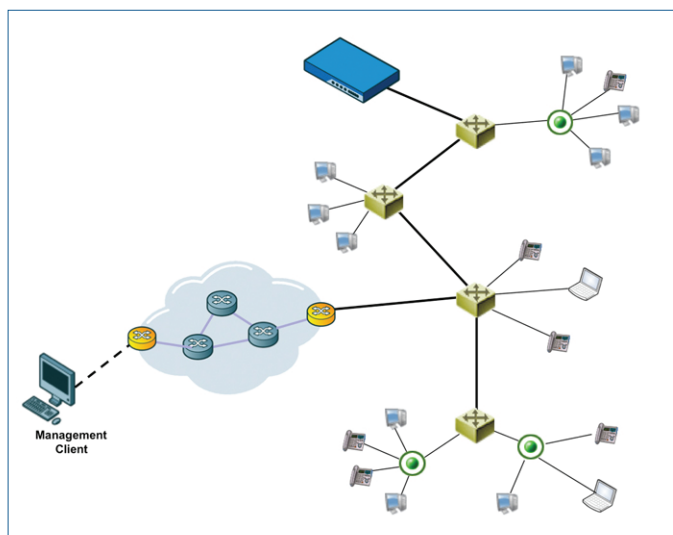
Specifications

Form Factor	1U Rackmount
GUI	Windows, Linux, Solaris
Dimensions	426 x 305 x 43.5mm
Certification	CE/FCC Class A
Net Weight	8 kg
Power	90-260VAC, 50-60 Hz, 180 Watts
Network Interface	4-port 10/100/1000 Base T
Operating Temp.	0 to 40 C
Storage Temp.	-20 to 80 C
Relative Humidity	10 to 90% (non-condensing)

Integration with Flow-based Data

SmartHawk is designed to integrate seamlessly with SmartFlow, providing a unique combination of network topology information in Layer 2/3 as well as flow-based data from protocols such as Netflow and Sflow.

Data Export

SmartHawk L2/L3 supports SOAP/XML and HTTP-based data export for clients who want to develop custom applications or integrate SmartHawk with their products.

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