

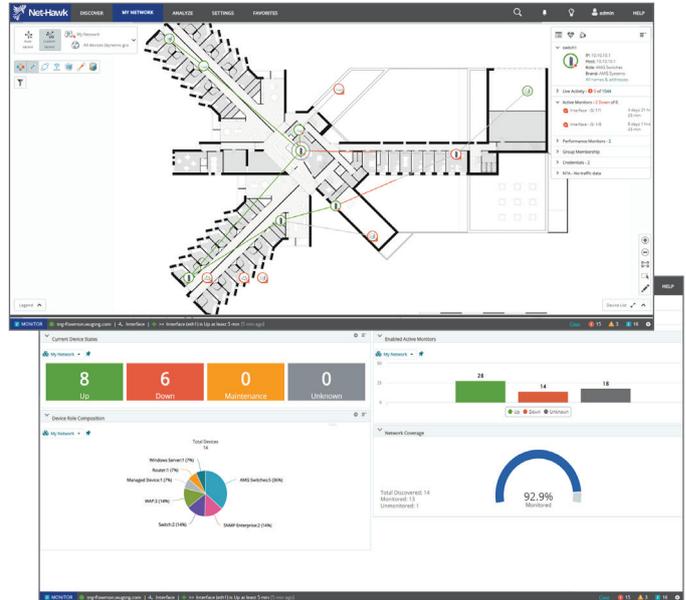
AMG NET-HAWK™ PREMIUM UNIFIED NETWORK MONITORING SOFTWARE

Powered by  Progress*



Software Solutions

AMG's Net-Hawk™ Premium software provides complete visibility into the status and performance of network devices, servers and anything with an IP address. With advanced custom monitors for AMG switches ensuring the status and operation of each device can be fully monitored.



[AMG Net-Hawk Premium]



/ OVERVIEW

The AMG Net-Hawk™ Premium software provides a unified network monitoring platform offering complete visibility into the status and performance of wired and wireless network devices and servers.

Network operators will gain the control, insight and automated resolutions needed to find and fix problems before users and critical systems are impacted. Automate the discovery, mapping, monitoring, alerting, inventory and reporting of the network.

Integrated custom monitors for AMG equipment provide deep insights into the operation and stability of AMG devices with the ability to monitor traffic and unit behaviour. The AMG Net-Hawk™ software while providing maximum integration of AMG products also remains brand and device agnostic providing the user with complete freedom to monitor any device with an IP address including full Windows WMI integration as well as support for virtual machines and storage to provide industry leading monitoring of all system servers. Full support is also included for monitoring wireless devices.

Utilising an on-premise server ensures maximum security and flexibility for systems with no internet access.

/ FEATURES

- Sophisticated automatic network discovery & mapping for layer 2/3 networks
- Manage & monitor your network infrastructure of AMG products as well as any 3rd party devices or servers with an IP address
- Smart alerting and actions provide real-time alerts to ensure a proactive response to any network issues
- Fully customizable reporting & inventory environment with out of the box views & dashboards that can be modified to meet individual requirements
- Custom AMG monitors for advanced performance metrics and detailed device monitoring
- Powerful REST API allows for easy integration and management of the Net-Hawk environment with other systems and services
- Manage and monitor cloud resources including Amazon Web Services and Azure servers
- AMG's industry leading global technical services support included with the service agreement

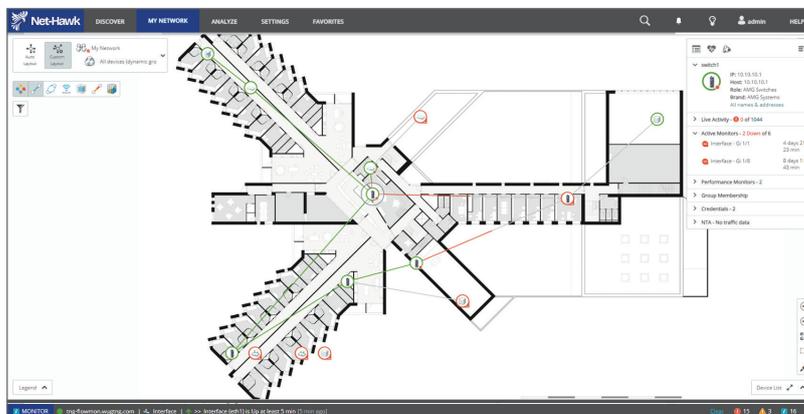


Feature Highlights.

/ AUTOMATED DISCOVERY & NETWORK MAPPING

Net-Hawk Layer 2/3 Discovery identifies all of the devices on your network including your routers, switches, servers, access points, cameras and more. Net-Hawk features industry leading network scanning technology which discovers all devices on the network by automatically learning your network topology. It can also discover the network using an IP Range Scan, from a Start and End IP Address and discovers all port-to-port connectivity and network dependencies.

Net-Hawk automatically generates Layer 2/3 network maps of your core wired infrastructure, Windows® infrastructure, wireless infrastructure, cloud resources and more. It monitors managed switches, wireless LAN Controllers, Access Points, servers, storage devices, cameras and more. The unique interactive network map displays your entire network environment from end-to-end, quickly showing the status of every device and letting you see your end-to-end network health at a glance. Network administrators can click on any device to instantly display its status, properties and assigned monitors, or they can drill-down to dashboards displaying detailed performance data.



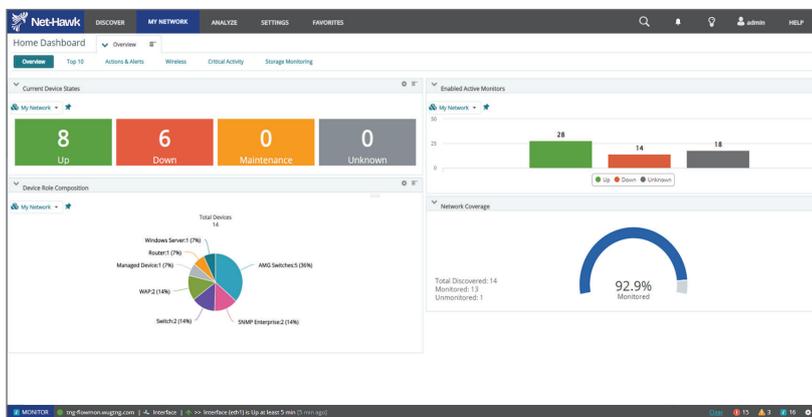
Net-Hawk detects downstream dependencies that allow alarm suppression. For instance, if a router fails then devices downstream from the router (from the perspective of the ping or poll device) will register as unavailable on the monitoring screen and will trigger alerts. Such scenarios can result in confusing alert storms and delay the fault isolation process. Net-Hawk automatically detects such dependencies thereby suppressing downstream alerts.

Net-Hawk monitors bandwidth usage and provides a visual representation or ‘heat map’ of the status of links between your devices. With one click you can see which interface links are fine (green), becoming congested (yellow) or approaching capacity (red). These thresholds are customizable and you can trigger alerts if any links exceed a set threshold. This overlay lets you see network congestion at a glance and helps you not only optimize network bandwidth usage, but also architect your network effectively.

/ MANAGE & MONITOR YOUR NETWORK INFRASTRUCTURE

Net-Hawk continuously monitors the availability and performance of your network infrastructure from routers, switches, and firewalls through to your servers and storage devices. In short, Net-Hawk can monitor anything with an

IP address that can be accessed with standard monitoring protocols including ICMP, SNMP, WMI and SSH providing an open path to maximizing investment return by being able to monitor any device from any brand unlike many other monitoring platforms which are designed purely for monitoring a single brands devices only.



The data being monitored can be displayed using one of multiple standard dashboards provided or customize any dashboard to meet your own operational requirements to ensure valuable data insights are provided in an easy

to understand format for the network system operators and administrators.

Feature Highlights.

SMART ALERTS & ACTIONS

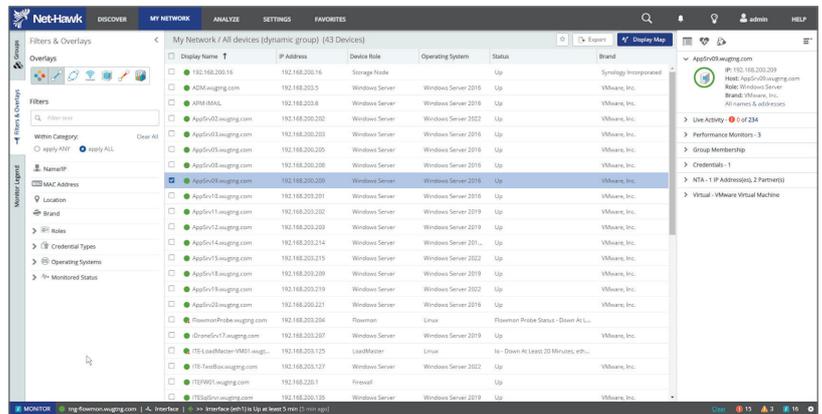
Net-Hawk provides real-time alerts via email, text, Slack, logging and many other methods as standard. Alerts empower you to proactively respond to problems before they impact users, applications and the network. Net-Hawk issues an alert when a device or monitor changes state (e.g., from an up state to a down state) or when a performance threshold is exceeded – for example, when the AMG network switch PoE total budget exceeds 75 percent. Net-Hawk’s “smart” alerting uses the network dependencies automatically identified in the discovery process to eliminate alert storms and quickly identify the root causes of network problems. The Net-Hawk Alert Center displays threshold-based alerts in a single dashboard.

You can create action policies for alerts including event logging, notifications to Slack, posts to IFTTT, email, texting, and automated self-healing actions such as restarting a network camera or any other action that can be initiated by a PowerShell or SSH script.

REPORTING & NETWORK INVENTORY MANAGEMENT

Net-Hawk delivers an easy-to-customize reporting environment. You can select from hundreds of out-of-the-box views or easily create drag-and-drop dashboards that provide a quick assessment of overall network health – even detailed drill-down dashboards to isolate the root causes of performance problems. These dashboards can help you quickly resolve performance problems across your organization.

Real-time Performance Monitors provide for extremely granular reporting when troubleshooting or isolating an issue. These reports can be added to any dashboard view and configured to display real time statistics for any performance monitor. With the flexibility to pause and export data these reports can significantly improve issue resolution times.



Net-Hawk also features integrated inventory reporting including hardware inventory, reports on installed software and updates, warranty reports, and more. These reports save both time and money and can decrease year-end IT inventory activities from weeks to minutes. The reports will also help you find under-utilized hardware resources that can be re-deployed and identify unlicensed software to avoid expensive true-up costs.

REST API

Net-Hawk includes a powerful REST API that makes it easy to manage and integrate Net-Hawk with other systems. An extensive suite of outbound REST API calls let users leverage REST to provide information to Net-Hawk from other 3rd-party systems. This extends integration to the application level, making it simple to seamlessly integrate functionality with 3rd-party applications like Salesforce, Office 365 and others.

As well, inbound REST API calls let you automate your workload by extracting specific data from Net-Hawk or inputting information from a separate system or script. You can extract current status information for use by another system, automatically put devices into maintenance mode before making changes, add or remove devices, add monitors, and more.

Features & Specifications.

Standard Features.

Network Discovery
Network Mapping
Availability & Status Monitoring
Alerting & Alarms
Reporting
Inventory
Advanced Monitoring (WMI, SSH, HTTPS)
Wireless Monitoring
Cloud Monitoring
Storage Monitoring
REST API

AMG Advanced Features.

Custom AMG Monitors
AMG Device Roles & Profiles
AMG Automatic Device Detection
Advanced Performance Metrics
Optical Performance Monitoring
PoE Monitoring
Contact Closure, I/O & Alarm Monitoring

*Additional AMG Advanced Features Are Available With The Optional Net-Hawk Plugin Modules.

See Plugin Specific Datahsheets For More Information.

Server Hardware Requirements.

Processor	Quad Core
Processor Speed	2.6 GHz or higher
RAM	16 GB
Hard Drive	25 GB or higher free space
Network Card	100Mb minimum (1Gb preferred)
Sound Card	SAPI-capable for text-to-speech actions

Server Software Requirements.

Operating System	Windows Server 2022 Windows Server 2019 Windows Server 2016
Database	SQL Server 2022 Express Edition

Workstation Hardware Requirements.

Processor	Quad Core
RAM	8 GB
Video Display	1920x1080 or higher
Sound Card	SAPI-capable for text-to-speech actions

Workstation Software Requirements.

Supported Browsers	Microsoft Edge Google Chrome Mozilla Firefox
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Part Numbers.

Net-Hawk™ Premium With 1 Year Service Agreement

AMGHWK-25-P1	Net-Hawk Premium 25 New Devices with 1 Year Service
AMGHWK-50-P1	Net-Hawk Premium 50 New Devices with 1 Year Service
AMGHWK-75-P1	Net-Hawk Premium 75 New Devices with 1 Year Service
AMGHWK-100-P1	Net-Hawk Premium 100 New Devices with 1 Year Service
AMGHWK-200-P1	Net-Hawk Premium 200 New Devices with 1 Year Service
AMGHWK-300-P1	Net-Hawk Premium 300 New Devices with 1 Year Service
AMGHWK-500-P1	Net-Hawk Premium 500 New Devices with 1 Year Service

Net-Hawk™ Premium With 2 Years Service Agreement

AMGHWK-25-P2	Net-Hawk Premium 25 New Devices with 2 Years Service
AMGHWK-50-P2	Net-Hawk Premium 50 New Devices with 2 Years Service
AMGHWK-75-P2	Net-Hawk Premium 75 New Devices with 2 Years Service
AMGHWK-100-P2	Net-Hawk Premium 100 New Devices with 2 Years Service
AMGHWK-200-P2	Net-Hawk Premium 200 New Devices with 2 Years Service
AMGHWK-300-P2	Net-Hawk Premium 300 New Devices with 2 Years Service
AMGHWK-500-P2	Net-Hawk Premium 500 New Devices with 2 Years Service

Net-Hawk™ Premium With 3 Years Service Agreement

AMGHWK-25-P3	Net-Hawk Premium 25 New Devices with 3 Years Service
AMGHWK-50-P3	Net-Hawk Premium 50 New Devices with 3 Years Service
AMGHWK-75-P3	Net-Hawk Premium 75 New Devices with 3 Years Service
AMGHWK-100-P3	Net-Hawk Premium 100 New Devices with 3 Years Service
AMGHWK-200-P3	Net-Hawk Premium 200 New Devices with 3 Years Service
AMGHWK-300-P3	Net-Hawk Premium 300 New Devices with 3 Years Service
AMGHWK-500-P3	Net-Hawk Premium 500 New Devices with 3 Years Service

Additional license options are available including new device additions for existing systems along with additional years of service. The AMG Professional Services team can provide assistance with installation, setup, configuration and training if required. Please contact your local AMG sales representative for further information.

Optional Plugins.

Net-Hawk Configuration Management	Automated configuration, scripting and change management for Net-Hawk Premium
Net-Hawk Log Management	Simple, integrated log collection, alerting and archiving for Net-Hawk Premium

Additional plugins are available. Please contact your local AMG sales representative for further information.

In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit www.amgsystems.com for the latest product specifications.

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