Network Management System (NMS) Buyers Guide

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Introduction

Regardless of the size of your IT infrastructure, proactive network monitoring is simply not an option today. Your business critical applications rely on the performance, availability, and reliability of your network. If you try to save a few dollars by monitoring your network manually, you run the risk of negatively impacting productivity and most likely revenue if your network goes down.

Network management systems range from free, open-source tools, to complex and pricey applications. Balancing the trade-offs between price, features, and user preference can be very challenging. There are many factors that a network manager should consider before selecting a network management solution and with so many options available in the market, choosing the best tool to manage your network requirement is difficult.

What to Look For

It’s vital for network administrators to consider some key functionalities that are essential for a networking monitoring solution. This whitepaper will provide some guidance on how you can choose the best network management solution with the right set of features that matches your requirement.

Multi-vendor Support

In today’s network environment, it’s virtually impossible to find a network that doesn’t include devices from multiple vendors. While all device manufacturers offer some kind of utility or package that supports their devices, more often than not they do not support devices from other manufacturers. Make sure your NMS can support devices from multiple manufacturers.
Network Discovery and Mapping

When you first install a network management system (NMS), you will need the ability to both discover all the devices on your network and map those devices and their connections. By automatically discovering existing devices in the network, you get immediate visibility after installation. Ideally, you’ll want to map Layer 2 and Layer 3 so you can associate a MAC address with a specific switch port. In addition to discovering devices at the initial installation, you want the ability to automatically discover new devices as they are added to your network.

Simple Interface

Easy to use dashboards and graphical interfaces give administrators the holistic view on what is happening in the network environment. Everything they need to see in a network should be easily accessible, easy to understand, and easy to use. The best network management solutions provide network administrators with out-of-the-box, real-time information displayed in graphical charts, tables, and graphs, all of which can be completely customizable.

Real-time Agentless Monitoring

Getting up-to-date network information about the network’s availability and performance is a top priority for network administrators. Choosing a solution that provides real-time information on network performance indicators like disk space, CPU load, memory utilization, bandwidth utilization, packet loss, latency, errors, discards, and quality of service for any SNMP enabled devices is an absolute necessity. Systems that use standard network protocols such as SNMP, ICMP, and WMI typically do not require the installation of agents on your network devices or servers.
Alerting and Reporting

Network alerts are a checkbox for any modern NMS. Intelligent alerting goes one step beyond by including device dependencies, correlated events, sustained conditions, and multiple condition checks so you only get alerted for critical issues. Do you have a need to generate and distribute performance reports throughout your team or to management? If so, look for a system that provides customizable out-of-the-box reports that can be automated.

Scalability

It’s likely that your NMS will be the foundation of your overall IT management system so it’s critical to employ a solution that can grow as your network grows. Look for network management solutions that are modular and can extend across your infrastructure to include elements such as network traffic, network configuration, systems and applications, virtualization, and storage.

Easy to Deploy

Having an expensive integration or an expert team to set up the product in your environment is not an option. Network administrators need to choose a network monitoring tool that can be easy to deploy and can be set up in minutes.

How SolarWinds Can Help

SolarWinds Network Performance Monitor (NPM) is a robust and comprehensive network performance monitoring solution that delivers detailed real-time monitoring and analysis of performance data from routers, switches, servers, and other SNMP-enabled devices. It’s a one-stop solution that enables users to detect, diagnose, and resolve network performance problems and outages before they become an issue.
NPM provides an easy-to-use, intuitive interface that offers advanced visual representations of performance metrics with minimal configuration overhead. And with SolarWinds NPM, users can quickly discover network devices, create multi-layered and nested Layer 2 and Layer 3 maps, and begin monitoring in less than an hour.

Powered with an intelligent alerting capability, SolarWinds NPM notifies users in real time on the performance and health of their networks. It also includes an advanced reporting feature that allows users to create, customize, schedule, and automate reports. These capabilities deliver a quick and easy approach to network monitoring.

SolarWinds NPM is scalable from 50 to more than 100,000 elements with expandable modules and scalability engines, offering flexibility and robustness in supporting the growth and evolution of network infrastructures.
Among other capabilities, SolarWinds NPM enables users to monitor their VMware® servers, data centers, and clusters, including VMware ESX and ESXi, Virtual Center, and any virtual machine (VM) hosted by ESX servers on the network.

Easy to download and deploy, and supporting network devices from hundreds of vendors and thousands of models, SolarWinds NPM establishes itself as one of the most competent, capable, and affordable network monitoring and management solutions.

Don’t Just Take Our Word for It

With a lot of options to choose from, the challenge is to figure out which vendor has the right solution for your business and IT needs.

To help with this challenge, Networkmanagementsoftware.com conducted a comparative study and the result is a Network Management Comparison Guide. Six different solutions were reviewed: Open NMS®, SolarWinds, WhatsUpGold, Dartware, ManageEngine®, and Apparent Networks Pathview Cloud.

For the purpose of the study, it was assumed that multiple administrators requiring remote access would need to monitor a small-to-medium sized business. Features such as detailed reporting, notification, and flexible alerting options were top priority.
Solutions were also judged on features & functionality such as IPv6 Support, Route Monitoring, Pricing, Hardware Monitoring, Wireless Polling, Virtual Device Support, User-Customizable UI/Dashboard, iPhone®/Smartphone Access. The following table will provide you a glimpse of the results.

### Independent Comparison Guide

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<td><strong>User-Customizable Reporting Scenarios</strong></td>
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<td>Monitor APs &amp; Individual Devices</td>
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<td>iPhone/Smartphone Access</td>
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<td>Hardware Health Monitoring</td>
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<td>Virtual Device Support</td>
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<td>Some Community Plugins Available</td>
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<td>WhatsVirtual plugin adds native support for VMWare &amp; Hyper-V</td>
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<td>Limited reporting based on any SNMP variable</td>
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<td>Available Add-on Modules</td>
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<td>Yes-Application Monitoring (AppView) and FlowView</td>
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### Winner of Network Management Software Challenge

**SolarWinds Network Performance Monitor (NPM) v10.5** was chosen as the **winner** based on features like: user-friendly UI, reporting capabilities, simplified network mapping, and VMWare support.

### SolarWinds NPM v10.5 Highlights

**SolarWinds Network Performance Monitoring** software makes it easy to quickly detect, diagnose, and resolve performance issues before outages occur. SolarWinds Network Performance Monitor is an affordable, easy to use tool that delivers real-time views and dashboards that enable you to visually track and monitor network performance at a glance. Plus, using dynamic network topology maps and automated network discovery, you can deploy and keep up with your evolving network without breaking a sweat.

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<tr>
<td><img src="image" alt="Application Performance" /></td>
<td><img src="image" alt="Management" /></td>
<td><img src="image" alt="SolarWinds NPM 10.5" /></td>
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Network Availability, Fault, and Performance Monitoring

SolarWinds NPM’s comprehensive fault management, performance monitoring, and network availability tools ensure that a user’s network is always running at peak performance. Via a customizable Web interface, users can have a unified view into the performance of thousands of nodes and interfaces on their network. From a single Web page, a user can drill down into any element on the network to see exactly what’s happening in real time.

- SolarWinds NPM’s Web interface provides real-time views of network performance and availability statistics, as well as detailed monitoring and analysis of data from routers, switches, servers, and any other SNMP-enabled devices.
- Monitor network performance indicators, such as bandwidth utilization, packet loss, latency, errors, discards, and quality of service for any SNMP-enabled devices
- Monitor disk space, CPU load, and memory utilization on network devices
- Conduct detailed performance monitoring and analysis of network elements
- Hover over a network object to see additional details about the object, including status, IP address, machine type, and percent loss

Automated Device Discovery

SolarWinds NPM’s Network Sonar feature automatically discovers new devices that are added to a user’s network. When new devices are discovered, Network Sonar checks a user’s existing SNMP credentials and prompts him or her to begin monitoring the new devices. The user can also leverage the built-in Network Atlas to create and update his or her network maps quickly and display connections to new devices, ensuring network maps are always up to date.
ConnectNow™ Topology Mapping

SolarWinds NPM’s built-in Network Atlas allows users to view their networks pictorially and to visually track performance statistics in real time via dynamic network maps. With NPM’s exclusive ConnectNow technology, users can automatically discover and display the connections between network devices on their maps. They can choose from several built-in geographic map templates or import a logical image of their own networks based on floor, building, department, or larger geographic location. Multiple network maps can also be nested to provide drill-down capabilities.

Enterprise Scalability

SolarWinds NPM ensures that users’ networks will never outgrow their management solution. As a highly scalable, enterprise network management platform, NPM can accommodate network growth through the addition of multiple polling engines, additional Web servers, and an enterprise operations console.

- SolarWinds Polling Engine scales polling across multiple servers for large enterprise networks
- SolarWinds Web Server Engine allows users to add an additional Web server and enable more users to access the NPM Web portal without affecting performance
- SolarWinds Failover Engine provides two-minute failover for the SolarWinds management system to ensure users never lose network performance visibility
- SolarWinds Enterprise Operations Console gives users unified visibility into remote servers running NPM and its associated modules

Intelligent Network Alerts

SolarWinds NPM enables users to configure powerful network alert engines quickly and easily to respond to hundreds of different network scenarios, including multiple condition checks. These network alerts help users recognize and correct issues before they
experience performance degradation or availability issues. Alerts can be set to notify different people on different days, different times of the day, different people for different events, or any combination of times, events, and people. Alert delivery methods and responses include email, paging, SNMP traps, text-to-speech, syslog messaging, and external application execution.

**Drag-and-Discover Interactive Charts**

SolarWinds NPM’s **drag-and-discover performance charts** include a chart timeline that allows you to easily select the time frame of interest. Alternatively, you can use the one-click zoom for one-hour, 12-hour, or 24-hour windows. From there, you can mouse over discrete data points for a pop-up of detailed performance statistics at a specific point in time. Interested in performance trends over time? You can easily include a dynamic trend line that automatically recalculates to your selected time period.

**Network Route Monitoring**

Network Performance Monitor gives you the ability to **monitor network route** information and alert you when issues arise so you can reduce your time to resolution by providing a combined view of real-time network route information alongside device information. You can now view routing tables, changes in default routes, BGP transitions, and flapping routes. Additionally, NPM gives you a visual representation in the form of a network route topology map, provides visual alert indicators and audible alarms, and includes more than sixteen built-in network alert delivery methods and responses, including email, pages, SNMP traps, text-to-speech, syslog messages, and the launching of an external application.

**Network Multicast Monitoring**

Network Performance Monitor combines views of **real-time multicast information** alongside device information so you can drill down and see route details of multicast nodes.
and monitor routers, switches and end-points that receive and forward multicast packets. You can choose to view multicast data only and create groups specifically for multicast nodes.

**Hardware Health Monitoring**

With SolarWinds NPM's [hardware health monitoring](#), you can monitor the state of key device sensors including temperature, fan speed, and power supply and be alerted if they cross pre-defined thresholds. NPM’s LUCID (Logical, Useable, Customizable, Interactive, and Drill-down) Web-based interface provides at-a-glance insight into the health of your network hardware so you can quickly see where there are potential issues. Additionally, its built-in report writer allows you to create and distribute customizable hardware health reports.

**Conditional Group Dependency**

Conditional Group Dependencies allow users to group connected devices and/or interfaces together intelligently. These dependencies allow users to receive a single critical alert if their core routers go down instead of an onslaught of hundreds of alerts for each of the downstream devices and interfaces. That way, users know what is really down and what is just unreachable.

**Dynamic Service Groups**

Simplify monitoring for large and complex IT environments by grouping network devices, interfaces, servers, or volumes by virtually any category. With [dynamic service groups](#), users can monitor and aggregate views of servers, routers, switches, interfaces, and application groups by service such as email, location, department, or manufacturer.
Advanced Reporting

SolarWinds NPM’s advanced reporting engine enables users to quickly generate custom network reports that can be exported to PDF, printed, or viewed on the Web.

NPM’s network report creation utility is simple to use and walks users through the process of either using an existing report or creating a custom report from scratch. These network reports help users monitor availability, performance, and utilization statistics, as well as project future trends and capacity needs. If users can’t find network reports that match their criteria, they can check out thwack®, SolarWinds’ online community where customers have generated hundreds of reports that they can easily import into NPM.

Virtual Infrastructure Monitoring

SolarWinds NPM communicates directly with VMware® infrastructure to determine how the host servers are performing and to gauge the health of individual virtual machines. Information is rolled up at each of the hierarchical layers (vCenter™ >> Data Center >> Clusters >> Hosts >> VMs), so users can quickly determine if their virtualized infrastructures are performing poorly.

- Monitor the entire VMware virtual infrastructure, from vCenter to the data center to cluster to ESX hosts to VMs – all from a single Web console
- Ensure that Cisco® Nexus® 1000V switches and virtualized applications are performing just like they would on physical hardware
- Track VM availability and performance metrics, including CPU and memory utilization, disk usage, and network bandwidth
- Automatically discover, identify, and monitor new virtual machines added to any VMware server
- Leverage out-of-the-box VM reports and maintain VM performance using built-in alerting to receive instant notification of VM-related issues
• Leverage existing vCenter thresholds and view real-time status in NPM

Mobile Views
With SolarWinds NPM’s new Mobile Views, users can monitor their network performance from popular mobile Web browsers including iPhone®, Blackberry®, and Android™, allowing them to unchain themselves from their desks and workstations.

Microsoft® Active Directory® Integration
Leverage existing Microsoft Active Directory user accounts to allow users to log in to SolarWinds NPM. Users and groups can automatically log in using custom username or password or optionally use an Active Directory pass-through login to bypass the login screens altogether.

• Leverage existing Microsoft Active Directory user account information and groups
• Customize accounts to display specific types of network data for a subset of users
• Create priority groups for users who belong to multiple Active Directory groups to ensure the appropriate permissions are delivered to specific users

Cisco EnergyWise® Monitoring
Cisco EnergyWise focuses on reducing the energy consumption of all devices connected to a Cisco network ranging from Power over Ethernet (PoE) devices, such as IP phones and wireless access points, to IP-enabled building and lighting controllers.

EnergyWise technology gives users a framework for discovering, monitoring, optimizing, advising, and regulating energy needs for their businesses. Cisco EnergyWise encompasses a highly intelligent, network-based approach to communicate messages that control energy between network devices and endpoints.
Integrated Wireless Poller

An integrated wireless device poller enables you to leverage proven SolarWinds NPM alerts, reports, and Web console resources. Monitor and manage wireless thin and autonomous access points in the same views in which you are already monitoring your wired network devices.

Universal Device Poller & Custom MIB Support

Out of the box, SolarWinds NPM ships with MIB support that includes an MIB database that covers the vast majority of common network devices. NPM makes it easy to create a custom poller to monitor any SNMP-enabled device value that has an MIB, including virtually any statistic that a network device records. Examples include monitoring temperature on a switch, fan speed on a router, and battery status on a UPS, etc.

Conclusion

SolarWinds Network Performance Monitor v10.5 provides the best of the network management solutions in the market. You can download the fully functional 30-day free trial and check out our product. Simply download and install the software while SolarWinds NPM v10.5 discovers your network devices and your network monitoring environment will be waiting for you with complete out-of-the-box dashboards, alerts, reports, and more.

Other Helpful Resources:

Test Drive the Network Performance Monitor Demo

Download a free fully-functioning 30-Day Trial of Network Performance Monitor

Visit the Network Management ROI Calculator

Learn More about Network Performance Monitor
About SolarWinds

SolarWinds (NYSE: SWI) provides powerful and affordable IT management software to customers worldwide from Fortune 500 enterprises to small businesses. In all of our market areas, our approach is consistent. We focus exclusively on IT Pros and strive to eliminate the complexity that they have been forced to accept from traditional enterprise software vendors. SolarWinds delivers on this commitment with unexpected simplicity through products that are easy to find, buy, use and maintain while providing the power to address any IT management problem on any scale. Our solutions are rooted in our deep connection to our user base, which interacts in our online community, thwack, to solve problems, share technology and best practices, and directly participate in our product development process. Learn more today at [http://www.solarwinds.com/](http://www.solarwinds.com/).

Learn More

For product information or to purchase SolarWinds products, visit solarwinds.com, call, or email:

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