NETSCOUT®

OptiView XG Network Analysis Tablet

The wireless companion to nGeniusONE

Full WLAN Lifecycle Management and Network Troubleshooting in a Portable, Easy-to-Use Device

Today's business user is no longer tethered to a single workspace, computer or network. Buoyed by the pervasiveness of wireless networks and increasingly smart devices, organizations know enterprise mobility is a key driver of digital transformation. Their associates need the ability to conduct business from almost anywhere, using whichever of their devices and wireless networks are available at the moment. Superb wireless performance is, simply, a must have.

However, every wireless network starts with a wire. And as more organizations adopt a unified wired/wireless network strategy, the network analysis and troubleshooting processes need to follow suit. Users expect IT to resolve any performance or connectivity issues quickly to avoid disruptions and deliver a high-quality user experience, regardless of whether the issue originates in the wired or wireless component of the infrastructure.

Along with increasing reliance on WLANs comes greater network complexity; ongoing strategic technology investments, demands for remote site support, and—quite often—

no corresponding increase in IT budget or other resources.

The OptiView® XG Network Analysis Tablet is the first portable network infrastructure analyzer for both wired and wireless networks. It was specifically designed for the network engineer who needs visibility on both sides of the access point, across the network infrastructure. OptiView XG is integrated with the nGeniusONE® Service Assurance platform, together offering service assurance and complete visibility across the entire network infrastructure—from the data center to remote sites, wired to wireless access points, all the way down to an end user's device.

OptiView XG saves IT teams significant time, reduces infrastructure costs, and speeds issue resolution by automating wired and wireless network analysis and troubleshooting, including hybrid wireless environments comprising one or more of the 802.11a/b/g/n/ac standards.

Challenges Addressed by the OptiView XG Network Analysis Tablet

Today's IT teams are stretched thinner than ever. Beyond maintaining existing

technology infrastructure, IT is responsible for user experience and satisfaction. It is no longer enough to just keep up with continual upgrades and configuration changes. The emerging opportunity for IT is to drive digital transformation of the business. IT leaders can champion this effort only if their teams can be more effective at day-to-day operations, and meet their various challenges:

Performance: Business and IT leaders recognize the benefits of WLANs, but performance and reliability are concerns. Beyond a complete outage, if connectivity is poor or the network is slow, business users lose time and get frustrated. The issue for IT has been isolating the issue fast enough to avoid a major slowdown or outage, particularly in hybrid wireless environments comprising one or more of the 802.11a/b/g/n/ac standards. As the latest WLAN standards continue pushing bandwidth up at the edge, the capacity and performance of the "backhaul" wired LAN becomes a critical component of the user experience.

OptiView XG's handy, integrated form factor includes custom packet processing hardware that far outperforms standard computing platforms. Capture packets at up to 10 Gbps and get real-time traffic analysis showing who is using local bandwidth.

Security: Security is often the first concern for IT and business leaders when considering the extent they want to depend on Wi-Fi for access to business-critical information and applications. High-profile security breaches make the headlines almost every week. They are more than inconvenient; security breaches are expensive to fix and recover from in terms of reputation and potential lost revenue. Even if an organization never suffers a breach, there are significant costs associated with demonstrating compliance with privacy regulations.

OptiView XG's WLAN intelligence engine answers many questions about connectivity, signal strength, network performance, roaming, interference, and security issues on wireless networks, enabling non-wireless experts to easily
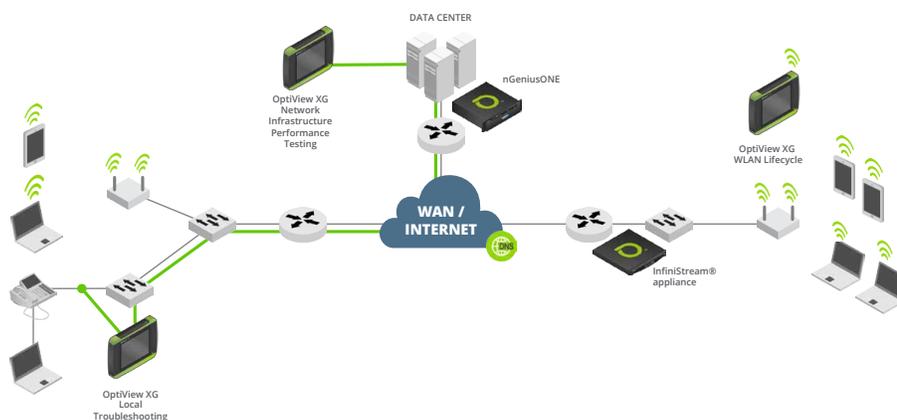

Figure 1: OptiView XG is a portable wireless tablet designed to troubleshoot wired and wireless site networks.

audit and troubleshoot. OptiView XG includes auditor-ready Wi-Fi security compliance reports, i.e. PCI, SOX, ISO, HIPAA, and others

WLAN Lifecycle Management: Enterprise-grade WLANs historically have been more difficult to design and maintain, due to radio-frequency interference issues, "dead zones" created by physical barriers, and perceived security threats from rogue devices. When Wi-Fi was considered a nice-to-have secondary network, these problems weren't much of an issue. But with WLANs emerging as a bona fide primary network option, IT needs to design the WLAN network right the first time, which requires site surveys for optimal placement of access points and an evaluation of the wired infrastructure to ensure it can handle faster wireless bandwidth. As network technology advances, IT needs the confidence of knowing when to upgrade versus optimizing existing equipment.

With full support for 802.11ac, as well as hybrid environments, OptiView XG enables the rapid deployment of new technologies. This includes the award-winning AirMagnet capabilities for surveying and planning new wireless installations. Automatically create detailed maps of existing wired and wireless infrastructure to help determine where to deploy new access points; find "dead zones" and areas impacted by non-802.11 devices that are interfering with transmission; and verify performance to ensure a seamless cutover to production status.

Remote Site Support: IT often needs to solve both wired and wireless issues for dispersed locations, either when the problem has been escalated by on-site staff or when there is no technician onsite. If the issue requires more expertise, more time is lost until a network engineer arrives onsite to diagnose the issue. The loss of IT productivity is compounded by the overall loss of productivity among business users at the site.

Whether deployed at a remote site for use by "local hands" or sent there to react to a problem, OptiView XG's integrated wired and

WLAN hardware ensures that you will have the capabilities needed to fix it, fast. If an onsite technician needs to escalate an issue, a network engineer can immediately access the OptiView XG remotely for faster resolution.

Complete Visibility into Entire Network Infrastructure: Historically, enterprises have maintained and analyzed their wired and wireless networks separately. This made sense when the primary driver of WLAN investment was to lower network costs. Now, as enterprises embark on digital transformation initiatives, WLANs are seen as a crucial to streamlining operations, or enabling new business opportunities. With the increasing importance of WLANs, it's no longer feasible to monitor, troubleshoot and maintain them separately.

With automated health checks, OptiView XG shows the availability and responsiveness of critical network services, and the highest utilization and errors across the entire network. OptiView XG searches the WLAN, switch, and router infrastructure to identify problems before they become full-blown issues, such as port errors, discards, high memory/CPU utilization, device reboots and FHRP failovers. Once a problem is detected, OptiView XG can alert IT staff automatically via multiple channels, including a push notification to Apple or Android devices

The powerful Path Analysis feature reveals the path between a user and networked resources in a visual representation showing health data and issues at critical links and devices along the path. The flexible map-based user interface visually identifies configuration and topology issues and instantly creates network documentation.

Benefits of Using OptiView XG Network Analysis Tablet

- Integrates with the nGeniusONE platform to provide broad coverage throughout the wired and wireless infrastructure

- Maximize WLAN ROI by deploying the most accurate wireless network correctly the first time and ensuring optimal use of existing infrastructure

- Demonstrate compliance with multiple Wi-Fi security regulations, i.e. PCI, SOX, ISO, and HIPAA, via automated, auditor-ready reports

- Improve IT team productivity by automating testing and analysis, enabling less-skilled employees to handle more day-to-day issues

- Decrease remote site support costs by determining where the issue is occurring before dispatching a technician, or enabling a network engineer to remotely troubleshoot

- Quickly solve end-user WLAN connectivity and performance issues while automatically detecting security threats and wireless network vulnerabilities

- Reduce the time required to identify the root cause and fix issues, increasing staff efficiency by using the "Guided Analysis" expert

NETSCOUT.

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