



NETWORK AND SECURITY CHALLENGES IN HEALTHCARE

Healthcare organizations deliver critical, life-saving treatment that is heavily dependent upon the availability of electronic patient records. Simply stated, when electronic records are not available due to network or security issues, the quality of patient care declines. Further complicating matters is the need to keep patient records secure and confidential to comply with HIPAA regulations.

As in other industries, traditional network troubleshooting and security efforts for healthcare organizations demand vast amounts of time and resources, as IT teams manually comb through logs, manage a multitude of host agents and perform frequent signature updates. Additionally, since the FDA has strict guidelines for making changes to any system that is used in patient care, it is more difficult to patch infected systems in healthcare organizations than it is in other industries, making more proactive, automated security measures even more crucial.



StealthWatch Provides End-to-End Network Visibility

Lancope's StealthWatch System unifies flow-based security, network and application performance monitoring to streamline workflows and provide more comprehensive visibility and protection. By analyzing NetFlow and other flow data from existing routers and switches, StealthWatch provides the actionable insight needed to troubleshoot a wide range of network, application and security issues across the entire network – dramatically reducing the time from problem onset to resolution.

StealthWatch has enabled the Puget Sound Blood Center in Washington to retain the \$22,680 it was previously losing for each hour of downtime.

Because StealthWatch leverages existing infrastructure and combines network and security functionality into a single platform, it provides a comprehensive range of capabilities at a fraction of the cost of traditional solutions. StealthWatch is scalable to meet the needs of even the largest networks, and can also monitor and protect virtual networks, enabling organizations to embrace innovative IT trends while still maintaining control over network performance and security.

StealthWatch's application awareness helps ensure that healthcare professionals experience high levels of performance from mission-critical technologies such as Epic, Lawson and Cerner. Because many healthcare organizations rely on these technologies to manage the entire lifecycle of patient care, 24/7 access and optimum performance are crucial.

StealthWatch helps satisfy the following HIPAA requirements:

- ▶ **164.308 (a) (1) (i)** - StealthWatch detects malicious activity, continuously monitoring the network and prioritizing issues in order of greatest risk.
- ▶ **164.308 (1) (6)** - StealthWatch unifies security, network and application performance monitoring to quickly focus resources on the top issues and provide a clear, understandable window into what is going on inside the network.
- ▶ **164.312 (a) (1)** - StealthWatch tracks user activity across the entire network, providing accountability for user actions.
- ▶ **164.312 (c) (1) and 164.312 (e) (1)** - StealthWatch alarms on unauthorized host access and the use of services and ports not necessary for normal business operations.

StealthWatch Benefits	
Demonstrate Compliance	Through constant, comprehensive monitoring, and advanced features such as application and identity awareness, StealthWatch helps healthcare organizations demonstrate compliance with HIPAA and other industry regulations.
Increase Network Availability & Performance	StealthWatch provides an end-to-end view of what is happening across the network to assist in maintaining high availability and performance.
Improve Security	To improve security posture, StealthWatch rapidly detects and prioritizes suspicious and malicious host and network behaviors such as cyber attacks, rogue servers, policy violations and unauthorized access and services.
Deliver Network & Application-Level Visibility	In addition to monitoring and analyzing network traffic, StealthWatch also provides application-level visibility to help healthcare organizations determine exactly where issues are stemming from and which systems/services are affected. It also helps to identify and stop application usage that puts the organization at risk, as well as ensure maximum uptime and performance for mission-critical applications that store and deliver patient records.
Track User Identity & Increase Accountability	StealthWatch automatically ties all host and network activity to IP, username and systems involved so that the root cause of issues can be tracked all the way down to the exact user.
Streamline Workflows	StealthWatch streamlines network and security workflows through a few, centrally located and administered appliances that require minimal system upkeep, no host agents, no signature updates and no need to manually comb through vast amounts of traffic logs to pinpoint the source of issues.

Healthcare Testimonials

Capabilities	Testimonial
Compliance & Privacy	<p><i>"Because we must also comply with HIPAA standards for security to protect patient information, network security is extremely important to us. Not only does StealthWatch decrease network downtime, but it also ensures better network security and protection of our patient records."</i></p> <p>Children's Hospital and Health System, Wisconsin</p>
Actionable Insight	<p><i>"Before StealthWatch, we manually analyzed and correlated our network activity data. StealthWatch automatically gives us detailed network insight through a single, easy-to-use interface, aiding our security, network operations and compliance efforts."</i></p> <p>BlueCross BlueShield of Tennessee</p>
Application Awareness & Effortless Troubleshooting	<p><i>"Troubleshooting is almost effortless with StealthWatch. Previously, when there was an incident, we would add mirrors and sniffers to track and replicate the event, and then manually comb through logs. We can now sort, analyze and baseline traffic with ease. In addition, we are using StealthWatch to gain application awareness, which enables us to quickly identify and respond to unauthorized application usage."</i></p> <p>Concord Hospital, New Hampshire</p>
Improved Security	<p><i>"Cancer Research UK uses StealthWatch to quickly identify threats and affected hosts and servers, mitigate attacks and perform forensic analysis in order to maintain high network availability."</i></p> <p>Cancer Research UK</p>
Expedited Problem Resolution	<p><i>"Before StealthWatch, our IT team was frustrated by lengthy problem resolution, a lack of audit trails and the inability to monitor user activity for HIPAA compliance. Identifying and solving network problems quickly is critical to our patient care....Our team relies on StealthWatch to quickly identify a problem, distinguish between network and application cause and notify the right resource for expedient resolution."</i></p> <p>Puget Sound Blood Center, Washington</p>

About Lancope, Inc.

Lancope®, Inc. is a leading provider of flow-based monitoring to ensure high-performing and secure networks for global enterprises. Unifying critical network performance and security information for borderless network visibility, Lancope provides actionable insight that reduces the time between problem identification and resolution. Enterprises rely on Lancope to make better network decisions, respond faster to network problem areas and avoid costly outages and downtime — at a fraction of the cost of conventional network monitoring solutions.

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