






Ultimate Guide to Network Performance Monitoring for Healthcare



INTRODUCTION

In today's rapidly evolving healthcare landscape, hospitals, clinics, and other healthcare providers must deliver exceptional patient care while ensuring stringent security and compliance standards. A high-performing network infrastructure is not just beneficial—it's essential. From real-time patient data processing to seamless telehealth interactions and advanced cybersecurity measures, every aspect of healthcare relies on robust network performance. This ultimate guide will explore the critical Network Performance Monitoring (NPM) capabilities required to support your mission-critical operations and demonstrate why LiveAction's LiveNX and LiveWire solutions are the ultimate tools to meet these demands.

SYNOPSIS: THE 5 ESSENTIAL NETWORK PERFORMANCE MONITORING CAPABILITIES

	ENSURING REAL-TIME PATIENT DATA PROCESSING Real-time monitoring and unmatched reliability are crucial to maintaining the accuracy and security of electronic health records (EHR) and other patient data systems.
	INSURING RELIABLE MEDICAL DEVICE OPERATIONS Continuous monitoring and proactive maintenance are key to providing uninterrupted service for connected medical devices.
	DELIVERING EFFICIENT IN-CLINIC SERVICES Operational continuity and rapid issue resolution ensure that in-clinic digital services, such as patient check-ins and diagnostics, remain smooth and uninterrupted.
	DELIVERING HIGH-QUALITY TELEHEALTH SERVICES Optimized performance and actionable insights are necessary to ensure clear and reliable video consultations and remote patient monitoring.
	ENHANCING CYBERSECURITY AND COMPLIANCE Real-time threat detection and integrated security features are critical for safeguarding against cyber threats and ensuring compliance with healthcare regulations

1 \ ENSURING REAL-TIME PATIENT DATA PROCESSING

KEY NPM CAPABILITIES

\ REAL-TIME LATENCY INSIGHTS

Healthcare providers must handle large volumes of patient data in real time, and any latency in network performance can lead to errors, delayed treatments, or compromised patient safety. The ability to monitor and respond to latency issues instantaneously is critical.

\ UNMATCHED RELIABILITY

Network disruptions can hinder access to patient records and other critical data, leading to potential risks in patient care. Your NPM solution must offer unmatched reliability and proactive issue detection.



WHY LIVEACTION'S SOLUTION IS THE **ULTIMATE ANSWER**

LiveNX

LiveNX provides best-in-class real-time monitoring with deep visibility into data transmission paths, ensuring every piece of patient data is processed with speed and accuracy. With its flow-first architecture, it delivers instant insights into network performance issues that could impact patient care.

LiveWire

LiveWire complements LiveNX with advanced packet capture and analysis, ensuring any disruptions in network performance are identified and resolved swiftly, protecting the integrity of real-time patient data processing.

2 \ ENSURING RELIABLE MEDICAL DEVICE OPERATIONS

KEY NPM CAPABILITIES

\ HIGH UPTIME AND AVAILABILITY

Medical devices must function around the clock. Any downtime affects patient outcomes and safety. Your NPM solution should ensure uninterrupted device operations by proactively managing and optimizing network performance.

\ PROACTIVE MAINTENANCE

Early detection of potential issues is key to ensuring that medical devices remain functional and reliable. Your NPM tool should anticipate problems before they occur.



WHY LIVEACTION'S SOLUTION IS **THE ULTIMATE ANSWER**

LiveNX

LiveNX offers continuous monitoring that guarantees medical devices remain operational 24/7. By providing real-time insights into network performance, it helps minimize downtime and enhances patient care.

LiveWire

LiveWire takes it further with packet-level analysis that enables rapid troubleshooting, identifying issues before they escalate and ensuring reliable, around-the-clock medical device operations.



3 \ DELIVERING EFFICIENT IN-CLINIC SERVICES

KEY NPM CAPABILITIES

\ OPERATIONAL CONTINUITY

Clinics offer a wide array of digital services, from patient registration to diagnostics and treatment planning. These services depend on a robust network infrastructure. Any interruption to in-clinic services can affect patient satisfaction and operational efficiency.

\ FAST ISSUE RESOLUTION

When network problems occur, quick diagnosis and resolution are critical to maintaining uninterrupted service.



WHY LIVEACTION'S SOLUTION IS THE **ULTIMATE ANSWER**

LiveNX

LiveNX delivers the end-to-end visibility needed to ensure that your in-clinic digital services operate without disruption. Whether it's network performance issues or service interruptions, LiveNX enables faster resolution by identifying root causes quickly.

LiveWire

LiveWire enhances this by providing detailed packet-level data that allows IT teams to troubleshoot in-clinic service issues in real-time, ensuring patients receive uninterrupted, high-quality care.

4 \ DELIVERING HIGH-QUALITY TELEHEALTH SERVICES

KEY NPM CAPABILITIES

\ OPTIMIZED PERFORMANCE FOR CRITICAL COMMUNICATIONS

Clear and reliable video communications are crucial for telehealth consultations and remote patient monitoring. Your NPM solution must ensure that these communication channels are optimized for high quality and low latency.

\ ACTIONABLE INSIGHTS FOR CONTINUOUS IMPROVEMENT

Your NPM tool should provide actionable insights to enhance the quality and reliability of your telehealth services over time.



WHY LIVEACTION'S SOLUTION IS THE **ULTIMATE ANSWER**

LiveNX

LiveNX is designed to deliver high-quality video performance across complex networks. With advanced monitoring capabilities, LiveNX ensures clear communication channels for telehealth consultations, eliminating jitter, lag, and dropped calls.

LiveWire

LiveWire adds another layer of assurance by capturing granular packet data, enabling deep analysis of video streams to pinpoint and resolve quality issues, resulting in consistently excellent telehealth experiences.

5 \ ENHANCING CYBERSECURITY AND COMPLIANCE

KEY NPM CAPABILITIES

\ REAL-TIME THREAT DETECTION

Cybersecurity in healthcare relies on processing large volumes of data in real time to detect and neutralize threats before they can cause harm. Your NPM solution must have the capability to monitor traffic for anomalies and potential security breaches instantly.

\ INTEGRATED SECURITY FEATURES

Advanced cybersecurity requires seamless integration of security protocols within your NPM solution to prevent data breaches and ensure compliance with regulations like HIPAA.



WHY LIVEACTION'S SOLUTION IS THE **ULTIMATE ANSWER**

LiveNX

LiveNX empowers healthcare organizations with real-time visibility into network traffic, allowing for early detection of suspicious activity and security threats. By continuously monitoring and analyzing traffic patterns, LiveNX helps prevent cyber incidents before they escalate.

LiveWire

LiveWire provides deep packet inspection and analysis, enabling healthcare providers to detect anomalies and safeguard sensitive patient data. Together, LiveNX and LiveWire deliver an unparalleled cybersecurity solution that combines performance monitoring with cutting-edge security.

CONCLUSION

For healthcare providers, high-performance networks are not just a backbone for daily operations — they are critical to patient care, security, and regulatory compliance. The ultimate network performance monitoring solution must deliver real-time insights, proactive maintenance, security integration, and the ability to scale effortlessly. LiveAction's LiveNX and LiveWire are the gold standard in NPM, offering comprehensive visibility, real-time analytics, and superior security to keep your network — and your healthcare services—running smoothly.



Real-Time
Insights



Proactive
Maintenance



Security
Integration



Scalability

LiveAction

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LiveAction offers industry-leading network performance monitoring solutions designed to meet the unique needs of the healthcare sector. Our solutions provide deep visibility, real-time analytics, and comprehensive security integration, ensuring robust network performance and compliance.

For more information, visit www.liveaction.com.