

Security Monitoring for Healthcare

▶ Delivering Total Network Visibility





When compliance, privacy and data security are critical, unprotected data is not a compromise you can afford. APCON's healthcare network monitoring solution instills confidence that network security and monitoring tools are receiving the right traffic at the right time, all the time.



Healthcare IT Challenges

The healthcare industry continues to face challenges that create a strain on information technology teams. Mergers and acquisitions play a large part in these challenges with the ongoing consolidation of many large hospitals and healthcare practices. Compliance to HIPAA, PHI, PCI and other government regulations continue to be a concern, especially with the constant threat of data breaches and cyberattacks. And, the added traffic from network-connected monitoring, diagnostic, imaging and other devices threatens to overload the network and diminish the effectiveness of network monitoring tools.

These challenges are top of mind with healthcare executives today and driving the need for improved network security. Healthcare IT teams are faced with a dilemma – improve security or suffer severe consequences that could include financial costs due to regulatory penalties, class-action lawsuits and damage to the corporate reputation. And, possibly the biggest consequence of all is the possible impact to the care of patients.



Security Monitoring for Healthcare

APCON is helping healthcare providers design a robust network monitoring architecture to centrally collect and analyze data at every point on the network including monitoring physical and virtual environments and remote locations. Network monitoring allows network and security professionals to “listen in” on all traffic between switches, routers and other devices on the network landscape. You can observe, conduct IT traffic analysis, streamline IT network management and ensure only the traffic of interest reaches the right network applications and security tools.

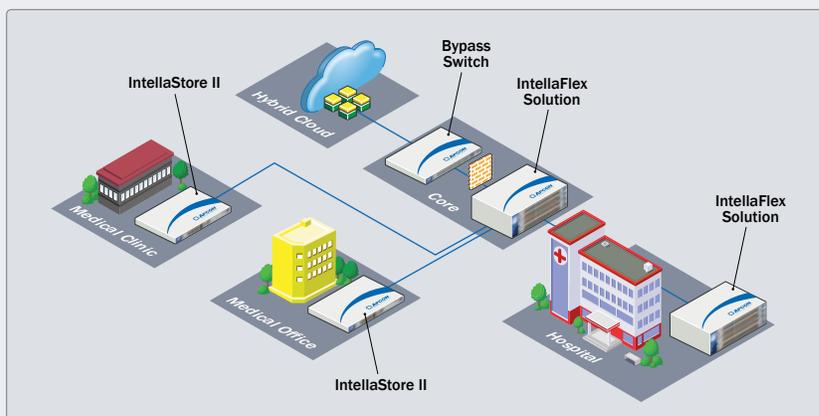
APCON's IntellaFlex XR system is at the core of the Security Monitoring for Healthcare solution and provides superior packet aggregation technology for visibility at every layer of the network. IT and security teams can share data captured from an inventory of expensive monitoring devices while preventing data loss and oversubscription of tools. Data from multiple sources is aggregated, filtered and directed to performance, application and security tools instantly, while a secure web-based user interface provides a centralized method of controlling the entire network monitoring infrastructure.



Improve Healthcare NETWORK EFFICIENCY

Monitoring doesn't happen without analysis tools, and tools don't function without data. The biggest challenge with network and security tools is when they become oversubscribed with too much data. APCON's Security Monitoring for Healthcare solution provides advanced features and options to ensure data going to your tools is the right data.

- **Pattern matching** protects patient information by identifying sensitive data such as social security and credit card numbers, and then provides the option to either mask that data or drop it from the packet.
- **Packet slicing** enhances tool performance by eliminating the need for the entire packet to be evaluated. This feature plays a critical role in compliance to HIPAA requirements.
- **Deduplication** removes duplicate packets resulting in a reduction of 50% of total traffic which basically doubles the analysis tool capacity.



- For off-campus locations and remote medical facilities, APCON's IntellaStore II is an **all-in-one network monitoring appliance** with on-demand traffic capture, onboard storage, pre-installed packet analyzer and network performance and security applications.
- The IntellaFlex Bypass Switch provides **fail-safe optical bypass taps** for inline security appliances and supports load balancing and appliance redundancy. The Bypass Switch maintains high network availability including an intelligent heartbeat that provides optical bypass when in-line systems crash, degrade in performance, or need maintenance.
- The graphical user interface software, TitanXR, provides **remote management** of network monitoring in both physical and virtual environments and allows the customization of dashboard statistical screens to provide a graphical summary of the monitoring switch, network performance and tool utilization.

"APCON's network solutions gave us the visibility our network demanded. They are now our go-to network monitoring provider."

– Large U.S. Healthcare System



A large US-based healthcare organization was facing network monitoring challenges due to results of a recent merger. With over 900 access points in their network and 5.1 million patient encounters annually, their current monitoring solution couldn't handle the amount of data traversing their network. They began experiencing skewed data reports and oversubscription of their security and monitoring tools.

They were able to resolve their latency problems by deploying APCON's IntellaFlex XR solution with HyperEngine blades in two of their data centers to complement their analysis tools. APCON's visibility platform gave them up to 200 Gbps of high performance processing power, allowing them to aggregate and filter traffic with deduplication. Their IT team was able to eliminate duplicate packets and saw an immediate increase in monitoring efficiency and recordable network time. Now they can quickly and easily troubleshoot network problems, while avoiding the expense of purchasing additional network security and performance tools.



A Solution That Can Grow With You

We know you are under pressure to keep your network secure. With APCON's Security Monitoring for Healthcare solution, you can be confident that your tools are seeing the traffic on your network and enabling you to be on top of security risks. Our goal is to provide you with a network where no data packet escapes inspection – **total network visibility** – and where operators can slice and dice the data any way they want, with as many tools as necessary, with maximum effectiveness and without breaking the bank.

Service and Support



APCON's professional services team of certified engineers have years of experience optimizing network monitoring strategies for businesses across the globe. Not only can they help select monitoring systems, install, assist with wiring and integrating existing analysis tools, this team proudly provides around the clock troubleshooting services and support.

The APCON Difference



APCON leverages its proprietary IP and deep expertise to provide flexible, focused solutions across the healthcare, financial services, manufacturing, government, telecommunications and education sectors. APCON solutions provide businesses with the flexibility and means to gain visibility to their data more efficiently, resulting in savings across the board – including time, resources and maintenance.

About APCON



APCON is headquartered near Portland, Oregon, where it has operated since 1993. APCON's in-house staff manages product design and development, manufacturing, quality assurance and final testing, customer training and long-term servicing of its solutions – whether for a system with a single switch or a global installation that spans across multiple geographical locations.

