SOPHOS

Sophos Protection for Connected Medical Devices

INTRODUCTION

Healthcare advances in the area of sophisticated networked medical devices have brought about efficient communication and coordination among patients, healthcare practitioners, and the healthcare facilities. While this has reduced the time for providing healthcare and improved the quality of treatment, networked medical devices are highly vulnerable to cybersecurity exploits. Every connected device opens a pathway for cyberattacks.

Sophos protection

Sophos offers award-winning protection for healthcare providers. Our unique IT security capabilities ensure uninterrupted patient care, secure patient data and medical operations, and helps healthcare providers to achieve compliance with increasingly stringent industry regulations.

Application layer control and visibility

Sophos Synchronized App Control identifies all applications on your healthcare network that are unknown, unidentified, or generic, providing you with unprecedented network visibility to classify and control them. You can custom-tailor application controls for a user or group based on the app's category, risk, technology, or other characteristics, to prioritize the ones you want and block the one's you don't so that critical data-intensive files get through.

Identify and isolate infected systems

Sophos XG Firewall, with the unique Sophos Security Heartbeat™, fully identifies the source of infection on your network and automatically limits access to other network resources until the system is cleaned up. XG Firewall directly receives health status of your endpoints and gives you constant visibility into the health of your complete network. In case of any compromised systems, it gives you all the details you need, such as IP address, user, and process. The health of your connected hosts is integrated into your firewall rules so that access to critical network resources from any compromised device or system is automatically restricted until it is cleaned.

Advanced protection against ransomware and exploits

With XG Firewall, you'll get the best protection against unknown threats such as ransomware, cryptomining, hacks, worms, and advanced persistent threats (APT). XG Firewall offers powerful Sandstorm sandboxing, deep learning with artificial intelligence, top performing intrusion prevention, and beyond. It integrates exploit prevention and CryptoGuard protection technology from Sophos' Intercept X next-gen endpoint protection to secure connected devices from malware exploits and ransomware.

Least-privileged access

User identity forms the basis of all firewall policies and reporting in XG Firewall, providing next-gen control over usage of apps and other network resources by users. With granular application, web, and content controls over users or user groups, Sophos offers tight controls over access to sensitive information as part of its ability to enforce least privileged access across the network. This ensures authorized users can access only the sensitive data they need to perform their duties, no more.

SUMMARY

Industry
Healthcare

Protection
Connected medical devices deployed in healthcare environments are easily prone to cyberattacks.

Scenario
There are innumerable medical devices currently residing on healthcare networks. Some are life-supporting, including infusion pumps, ventilators, pacemakers, and more. As this number continues to grow, the scary reality is that every connected healthcare device is an exploitable opportunity for cybercriminals. Connected medical devices need protection from cyberattacks.

Security risks
‣ Hacking
‣ Malware and ransomware
‣ Unauthorized access
‣ Endpoint leakage
‣ DDoS attacks
‣ Phishing

Business problems
‣ Risk to patient safety
‣ Data loss of patients' personal information
‣ Reputational damage to healthcare provider

Solution
Sophos solutions offer advanced network-based and award-winning endpoint protection to provide a secure healthcare environment and to keep medical devices safe.

Advanced endpoint protection with EDR

Sophos offers powerful malware detection, ransomware prevention, and exploit protection combined with endpoint detection and response (EDR) features. Industry-leading deep learning combined with threat intelligence from SophosLabs takes Sophos' threat prevention to unmatched levels.

Protection of wireless connected devices

Sophos Wireless monitors and acts upon the health status of the device connecting to the wireless network. It automatically restricts Wi-Fi network access for unhealthy and non-compliant endpoints and mobile devices, thereby preventing lateral spread of infection. Get superior visibility to discover threats on your wireless networks and instantly classify them as rogue APs, spoofing attempts, unknown devices, and more. Separate guest Wi-Fi access from access for your healthcare staff with a daily password or time-limited voucher. All Sophos APX models have a certification for use in healthcare environments that confirms that they do not cause disruption to other medical equipment.

Visibility into the network and devices

You can't protect what you can't see. Sophos XG Firewall offers unprecedented visibility into risky activity, suspicious traffic, and advanced threats to provide you with complete control of your network. Get visibility into endpoint systems at risk, unidentified applications on your network, presence of advanced threats, top risky users on your network, and more.

Protect users against phishing attacks

Sophos Phish Threat offers more than 30 security awareness training modules, covering both security and compliance topics, to provide automated on-the-spot training to employees as necessary. Our global SophosLabs analysts monitor millions of emails, URLs, files, and other data points each day for the latest threats. This constant stream of intelligence ensures user training that covers current phishing tactics, with socially relevant attack simulation templates, spanning multiple scenarios from beginner to expert, all translated into nine languages.

Your next steps:

Discover more about Sophos and its healthcare solutions by visiting the Sophos healthcare webpage. Or, you can get in touch with us – our experts will help you build a solution that best meets your business needs and strategies.

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