At-a-Glance

Cisco Medical NAC

Helping to Secure Medical Devices

Cisco® Medical NAC (network access control) advances healthcare security by identifying and protecting medical devices and medical records. It identifies and segments them from nonmedical devices and threats on a converged wired and wireless network.

Medical Devices Are Targets

Most medical devices are developed for use on wired and wireless networks. Unfortunately, many devices have limited protection when they reside on a converged network. They are often vulnerable to threats because an IT clinical-device team may fear that implementing security modifications will affect their intended and FDA-certified use.

When medical devices are compromised, they can be used as gateways to sensitive data such as ePHI (electronic protected health information) or financial systems such as PCI (Payment Card Industry) systems that reside on the same network.

The network should protect medical devices and their supporting systems. But this is difficult because IT teams usually can't identify them. To solve the problem, some organizations use a separate network for the devices, but this adds cost and operational complications.

Healthcare Protection with Medical NAC

Cisco Medical NAC automatically identifies and categorically separates devices that should never be connected. The solution identifies more than 250 of the most prevalent clinical devices and many of the devices they need to connect to.

A medical device that connects to the wireless or wired network is automatically identified. It's then classified and put into its respective secure zone, such as patients only, ePHI only, or patient monitoring systems only.

This solution includes the Cisco "network as a sensor" solution, which allows you to monitor every single device. You can watch for suspicious activity and enabling Cisco's Rapid Threat Containment on risky devices.

Protection by Segmentation

Medical NAC uses network segmentation to control access to ePHI data and ePHI-supporting systems. It enforces access policies by user role, user device, device type, location, and even threat or vulnerability score.

Benefits

- **Improve Medical Device, ePHI, and Medical Record Protection**
  Secure all medical devices against threats without the hassle of trying to fix each one or operating separate networks.
- **Upgrade Visibility of Your Security Posture**
  Monitor network activity to help ensure that your network and devices are policy compliant.
- **Maintain the Ability to Quickly Spot and Stop Security Breaches**
  Take action to stop hackers and ransomware before they affect your operations and patient care.

Medical NAC in Action

Identifies Medical Devices

Delivers instant fingerprinting of more than 250 leading medical devices and thousands of nonclinical devices, so you know what's on your network.

Automates Onboarding

Provides easy onboarding services for guests, patients, staff, and doctors so they can easily access their authorized resources on a converged wired and wireless network.

Protects Devices

Uses traditional or software-defined network segmentation to protect clinical devices and medical records are protected from nonclinical devices and the lateral spread of malware.

Monitors and Removes Threats

Keeps a constant watch to detect suspicious behaviors and threats and then removes them using Cisco Rapid Threat Containment.

Cisco offers two means of segmentation: VLANs or Cisco TrustSec® software-defined segmentation. Cisco TrustSec is proven to reduce IT operating costs up to 80 percent[1] with an agile and highly secure means to protect devices and data.

Medical NAC Technologies

Cisco Identity Services Engine (ISE): market-leading NAC and policy management software

Cisco ISE Medical Device Library: profiles for more than 250 of the most prevalent medical devices

Cisco Stealthwatch: behavioral analysis technology

Cisco Rapid Threat Containment: a solution that uses the network to quickly stop threats

Cisco VLANs or Cisco TrustSec: segmentation to enforce access controls

Cisco Services: services that help you plan for and implement Medical NAC

Next Steps

For more information about the Cisco Medical NAC solution to cisco.com/go/medicalnac or contact your Cisco account team.

[1] The Total Economic Impact of Cisco TrustSec by Forrester Consulting

C45-738024-00 10/16