Cynerio

CYNERIO & CHECK POINT JOINT SOLUTION BRIEF:
MEDICAL-FIRST IOT SECURITY

Dynamic Cybersecurity Intelligence Management for
Healthcare Organizations

Evolving Challenges of Securing the Healthcare IoT

Traditional IT security solutions leave medical devices and healthcare IoT ecosystems vulnerable to cyber attack, jeopardizing organizational workflow, patient safety, and patient care. Cynerio's medical-first platform and Check Point join together to deliver the security solution HDOs need to face cyber threats head-on.

The Unique Challenges of Healthcare IoT Security:

Identifying connected medical devices
Get a clear picture of your clinical ecosystem with device inventory and classification.

Profiling devices and expected behaviors
Determine device uses and standard communication patterns.

Contextualizing device risk
Understand the level of risk posed by individual devices according to device criticality within the context of patient care.

**Understanding the organizational impact of devices**
Assess the impact of the risk of each device on an organizational level by factoring in hospital-specific workflows and network topography.

Devising & enforcing effective security policy
Construct an informed security policy that remediates and stops threats without interrupting patient care.

Build an Effective Security Posture

Cynerio's 360° view into medical devices and clinical network topology combined with Check Point's IoT Security Manager enables network-wide security enforcement, attack surface reduction, and streamlined remediation.
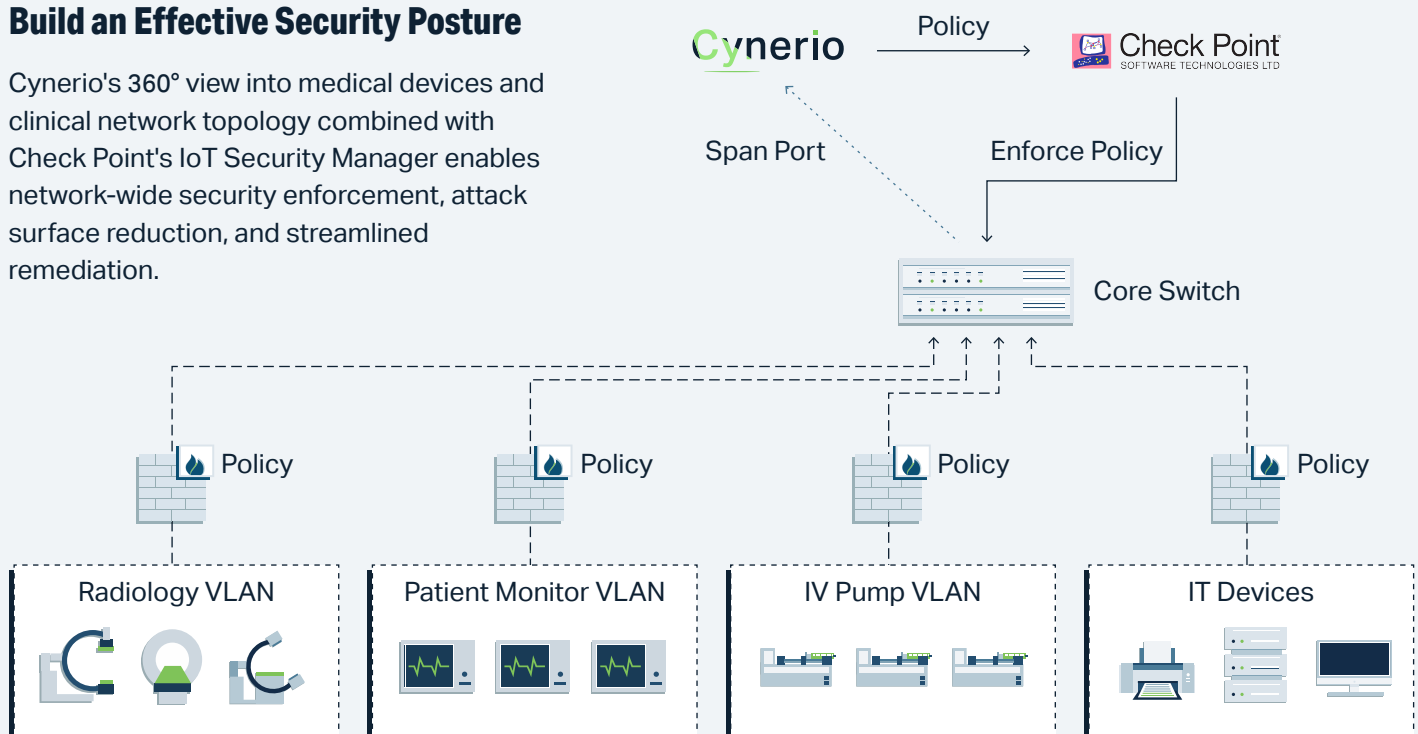
How It Works

Cynerio's holistic and medical-first approach to IoT security goes beyond devices. Deep-packet inspection provided by Cynerio offers a detailed view into device attributes and network behavior and topology, operating systems, MAC addresses, and internal and external communications. Armed with these insights and an understanding of expected communication patterns, the Cynerio solution delivers robust security policies and remediation programs to healthcare organizations.

Check Point's zero-trust IoT Security Manager enforces the security policies by restricting communication between segmented zones and external networks. Security teams also benefit from Check Point's built-in automated security defenses and a virtual patching mechanism to thwart detected threats.

The Power of Integration

The Cynerio–Check Point joint solution provides HDO security teams with comprehensive insights into risks contextualized according to criticality and care delivery. Teams receive robust and customized cybersecurity policy and the ability to enforce it with ACLs, VLANs, and IP-level firewalls. With the help of a single-dashboard view, this policy can be extended to cover the entire hospital network, including standard IoT devices.

Example of Specific Security Policies Set by Cynerio and Enforced by Check Point's Security Manager

East-West Segmentation Rules for the Alaris IV Pump

ACTION	SOURCE	DESTINATION	PORT / PROTOTCOL	COMMENTS
Permit	Device Model: Alaris_Pump	IP: 192.168.1.219 192.168.2.180 192.168.3.218	3613 Proprietary	Alaris's medical communication
Permit	Device Model: Alaris_Pump	IP: 192.168.0.1 192.168.0.2 192.168.0.3	53 DNS 67 DHCP1 68 DHCP2 161 SNMP	Outbound IT protocols
Permit	192.168.0.1 192.168.0.2 192.168.0.3	Device Model: Alaris_Pump	53 DNS 67 DHCP1 68 DHCP2 161 SNMP	Inbound IT protocols
Deny	Device Model: Alaris_Pump	Any	Any	Drop any other outbound connections
Deny	Any	Device Model: Alaris_Pump	Any	Drop any other inbound connections

Cynerio + Check Point: Medical-First IoT Security that Puts Patients First

As the world's only medical-first IoT security solution, Cynerio views cybersecurity as a standard part of patient care and provides healthcare delivery organizations with the insight and tools they need to build comprehensive segmentation schemes for HDOs of any size. Joining forces with Check Point empowers HDOs to enforce security across complex clinical ecosystems and achieve long-term, scalable threat remediation without disrupting operations or the delivery of patient care.