

Securing IoMT, IoT, and IT with Cynerio and ITHealth

Protect patient safety by expanding visibility to *all* connected devices and eliminate security black holes

The past decade has seen rapid adoption of new technologies throughout the NHS. From infusion pumps to CT machines, connected medical devices have improved timeliness, insight and patient care. Yet, this rapid adoption has introduced new threats, vulnerabilities and attack vectors. Due to their inherently poor cybersecurity posture, medical devices have become prime targets for cyber-attackers; they expose clinical networks to malware, ransomware and other cyber-attacks which, if successful, can have terrible consequences and impact patient safety.

Cynerio is a cybersecurity and compliance solution customised for the NHS - which can integrate directly with the **ITHealth Dashboard**. Customers using both tools can benefit from a single view of all assets in a single pane of glass. The result – a 360-degree view of all IT, IoT and IoMT assets – covering DSPT compliance, NHS Cyber Alerts and executive cyber reporting.

The Cynerio solution provides complete discovery of IoT and connected medical devices, as well as intelligent prioritisation and protection of critical devices based on clinical context, exploit probability, impact to patient care and DSP (Data Security and Protection) compliancy.

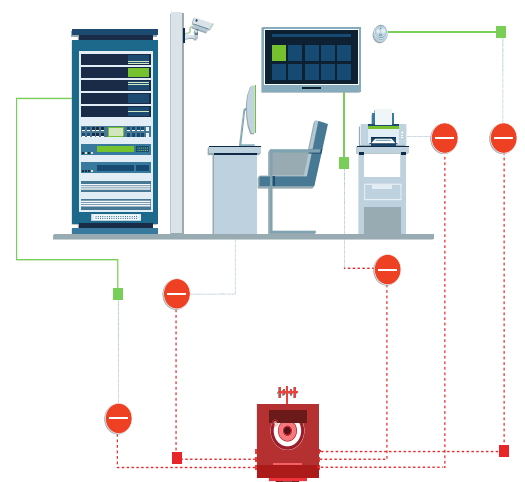
Cynerio's medical-first network segmentation validation engine also gives NHS organisations a virtual environment to test potential segmentation before execution, so that effective IoT security can be confidently implemented and device lifecycles safely lengthened without disruptions or additional risk.

Cynerio

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Cynerio provides us with an unprecedented level of detail and understanding of our otherwise relatively unknown estate of IoT and medical devices, profiling risks that we would have otherwise not known about and their potential impact on our hospitals.”

Tonya Frederickson, IT Security Manager
**Northern Lincolnshire and Goole
NHS Foundation Trust**



Over 130 NHS organisations now use the ITHealth Dashboard to manage their IT assets and associated vulnerabilities. With Cynerio, ITHealth extends this capability to cover all IoT, IoMT and OT assets. **The resulting benefits include:**

Visibility

The combined Cynerio and ITHealth technologies provide 360-degree visibility across all connected IT and IoT/IoMT devices. This visibility extends individual device insight to known vulnerabilities and documents exploitability factors. The combined risk insights collectively inform organisational security posture measurements that are automatically tracked and updated over time.

Risk Mitigation

To properly address risk factors including impact and likelihood, mitigation options must be considered. In-depth risk analysis provides clear guidance for security practitioners including patch details, network-level mitigations, severity and probability of an attack. Industry standard frameworks including CVE, CVSS and EPSS are used to standardise and guide security practitioners in their efforts.

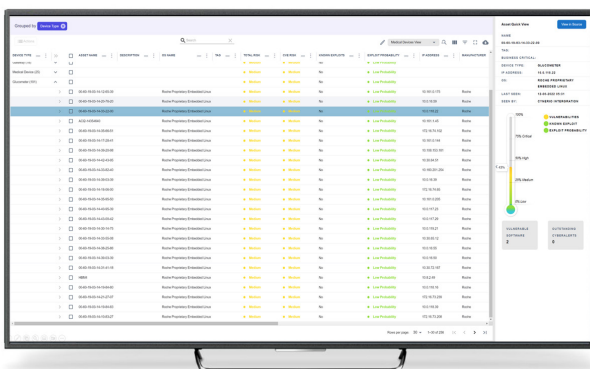
DSPT & Cyber Alert Compliance

DSPT assessments allow NHS organisations to demonstrate their abilities to protect patient information. Combined Cynerio and ITHealth deployments support over 40 DSPT requirements, including full compliance to medical device specific standards (9.3.8 and 9.3.9). Dedicated DSPT and Cyber Alert Dashboards help ease the process of meeting regulatory requirements and track compliance ongoing.

Real-Time Defence

During a cyber-attack early detection and response is critical. Cynerio's healthcare-specific Attack Detection and Response (ADR) technology combines passive analysis with Deep Packet Inspection (DPI) to identify abnormal behaviour and trigger additional investigation. During the immediate investigation performed by CynerioLive researchers, false positives are eliminated to reduce the noise often encountered in traditional systems. The result is a first line of defence and expertise typically considered unachievable by most NHS IT teams.

The rapid adoption of connected devices in healthcare has paradoxically improved care whilst increasing the likelihood of service disruptions due to cyber-attacks. **The seamless integration of Cynerio IoT security technologies with the ITHealth Dashboard provides greater risk insight, actionable security guidance, and improved DSPT functionality for NHS organisations.**



Cynerio data viewable in the ITHealth Dashboard



Cynerio full medical device inventory

Ready to increase your IoMT, IoT, and IT security visibility?

Call 0115 987 6339 or email Chris Booth, chris.booth@ithealth.co.uk or Andy Sheret, andy.sheret@ithealth.co.uk for more information