

# THE CHANGING HEALTHCARE INDUSTRY REQUIRES A SECURITY TRANSFORMATION

The healthcare industry is in a unique and particularly vulnerable position when it comes to cybersecurity due to the level of regulation and compliance surrounding patient privacy and data protection. At the same time, healthcare is a preferred target for the hacker or cybercriminal due to the high residual value of a healthcare record.

However, cyber-attacks aren't just motivated by potential financial rewards. A number of recent, large-scale data breaches have been attributed to state actors collecting data for suspected espionage purposes. Protected Health Information (PHI) or Electronic Medical Records (EMR) can also be used to build rich personal profiles and exploited for other criminal intent when placed in the wrong hands.

But protecting healthcare records is only part of the challenge. The healthcare industry must also address the issues emerging with the digital transformation of their infrastructure, operations and services. For example:

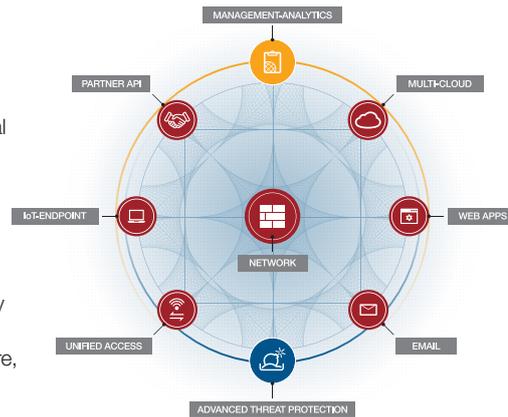
- Healthcare organizations are constantly expanding their operations model, bringing more services and applications closer to patients with remote care, remote clinics, and online services as well as sharing big data across their distributed networks. The distributed nature of the healthcare environment increases network complexity favoring the proliferation of cyberattacks.
- Pharmaceutical companies need to secure their intellectual property, potentially worth billions of dollars.
- Insurance providers are required to accommodate data exchange with countless providers, agencies, and brokers with exploitable potential security gaps.
- The "Internet of Medical Things" introduces new threat vectors and pushes even more data into the network.

Unfortunately, healthcare organizations have not been focused on cybersecurity with the same fervour as other industries. However, with many high profile security breaches being reported and threats becoming increasingly advanced, there is a new sense of urgency to focus on cybersecurity.

To address their unique challenges and ensure a seamless and secure digital transformation of its infrastructure, operations and services, the healthcare industry must equally execute a

security transformation. Fortinet can accompany a healthcare organization through every step of its security transformation journey with its proactive and transformative approach to cybersecurity - the Fortinet Security Fabric.

## THE FORTINET SECURITY FABRIC



### The Fortinet Security Fabric architecture delivers cybersecurity that is:

**Broad:** Cybersecurity that covers the entire attack surface through industry leading solutions and technologies that scale and deliver seamless protection from the end-point, access, application to the cloud with visibility extended to other vendor solutions.

**Integrated:** Collaborative cybersecurity where multiple technologies work together for the detection of advanced threats. The integration of devices using open standards, common operating systems, and unified management platforms enables the sharing and correlation of real-time threat intelligence.

**Automated:** Proactive cybersecurity that can quickly and dynamically respond to threats with all security elements seamlessly exchanging real-time threat intelligence and coordinating actions.

With the Fortinet Security Fabric, healthcare organizations are well positioned to meet both their current as well as future security needs. Through the realization and application of industry leading solutions and technologies, the Fortinet Security Fabric can easily adapt to healthcare's evolving industry dynamics, IT infrastructure and threat landscape enabling organizations to provide quality healthcare services today, tomorrow, and well into the future.

## HEALTHCARE'S DIGITAL TRANSFORMATION IN NUMBERS

**646 Million**



IoT Devices to be used in Healthcare by 2020<sup>1</sup>

**90%**



of Healthcare organizations use at least one type of mobile device to engage patients<sup>2</sup>

**\$9.5 Billion**



Amount Healthcare Cloud computing

market is expected to reach by 2020<sup>3</sup>

Sources:

<sup>1</sup> Business Insider's Business Intelligence, The Internet of Things Ecosystem Research Report

<sup>2</sup> HIMSS Mobile Technology Survey, 2015

<sup>3</sup> Markets and Markets, Press Releases, Healthcare Cloud Computing Market worth \$9.48 Billion by 2020