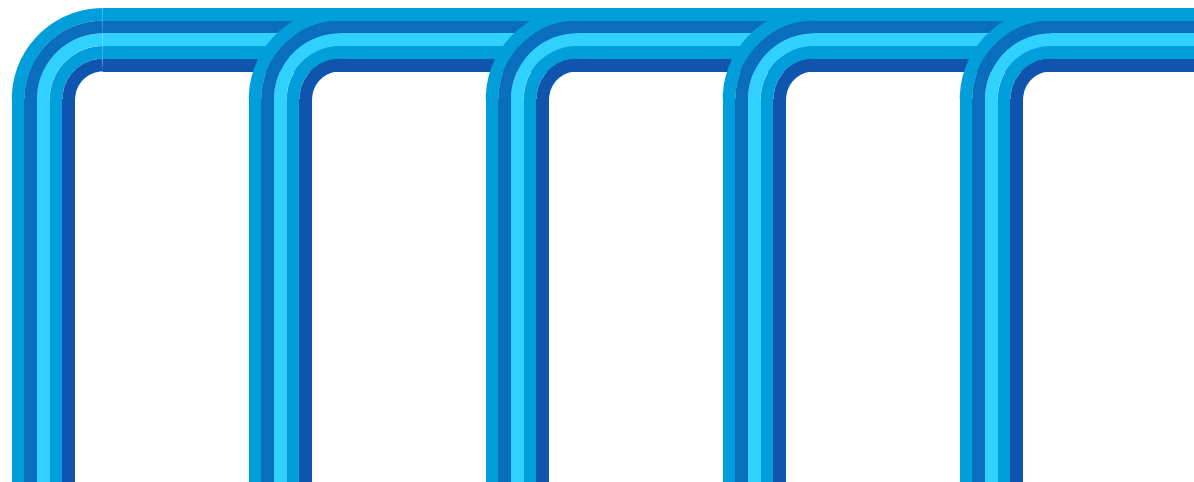# Healthcare and Cybersecurity
Helping protect the digital transformation

Digital technology is helping transform how healthcare is delivered. But it's also opening the industry to greater risk of cyberattacks.
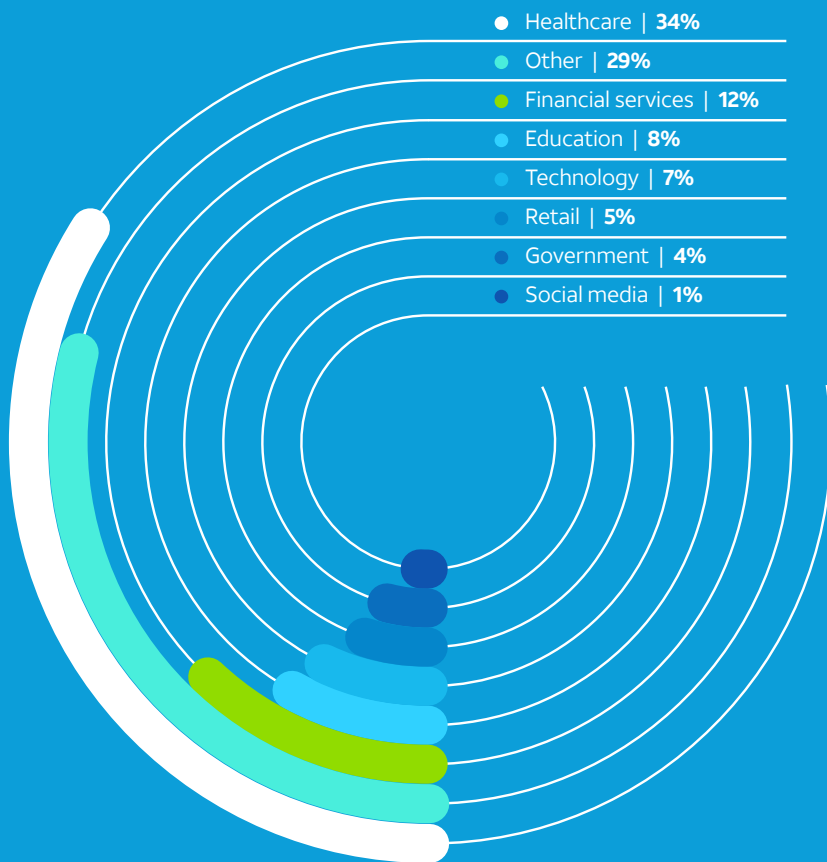
The healthcare industry is turning to digital innovation to improve the patient and member experience, enhance communication and collaboration, protect private and proprietary data, and deliver care to remotely located patients.

Yet, without a modern cybersecurity and compliance regimen aligned to digital transformation initiatives, healthcare organizations may be exposed to new and increased threats and vulnerabilities that can put organizational and patient data at risk.

Providers

Payers

Pharma

Medical Equipment Manufacturers

Long-term Care

Healthcare experienced more cyberattacks in 2020 than any other industry.[1]

Total cyberattack breaches by industry[1]

- Healthcare | **34%**
- Other | **29%**
- Financial services | **12%**
- Education | **8%**
- Technology | **7%**
- Retail | **5%**
- Government | **4%**
- Social media | **1%**

642
The number of healthcare data breaches of 500 or more records in 2020 – a new record for a single year[2]

$6.2B
Amount data breaches are costing the healthcare industry each year[3]

27%
Increase in number of healthcare breaches in first half of 2021 compared to 2020[3]

22M
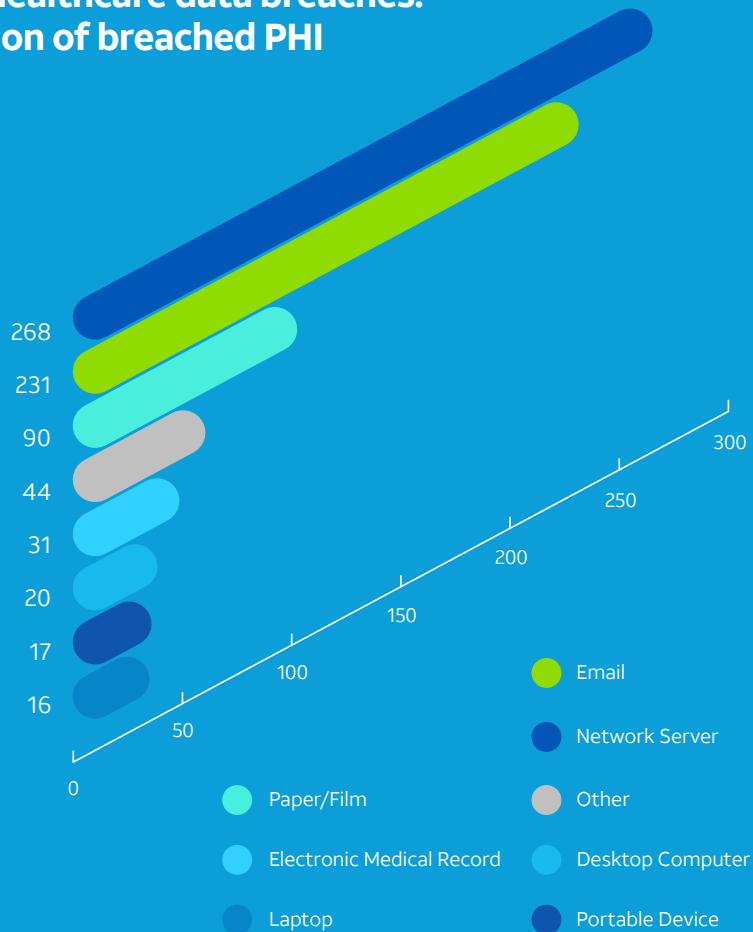Total number of individuals affected by healthcare data breaches in first half of 2021[3]

1   https://www.forgerock.com/resources/view/122965273/analyst-report/forgerock-consumer-identity-breach-2021-report.pdf

2   https://www.hipaajournal.com/2020-healthcare-data-breach-report-us/

3   https://purplesec.us/cyber-security-healthcare-statistics/

Network servers often store large amounts of patient data and are a prime target for hackers and ransomware gangs.[1]

2020 healthcare data breaches:[1]
Location of breached PHI

268	
231	
90	
44	
31	
20	
17	
16	

(axis values: 0, 50, 100, 150, 200, 250, 300)

- Email
- Network Server
- Paper/Film
- Other
- Electronic Medical Record
- Desktop Computer
- Laptop
- Portable Device

72%
Healthcare organizations affected from malicious network traffic[2]

48%
Healthcare organizations affected from an older version of an OS that is more vulnerable to known security exploits[2]

653%
Increase in malicious activity in July 2020 compared top 2019[3]

26K
DDoS attacks per day, or 18 per minute[3]

[1] https://www.hipaajournal.com/2020-healthcare-data-breach-report-us/
[2] https://www.wandera.com/cybersecurity-healthcare/
[3] https://www.fortinet.com/resources/cyberglossary/cybersecurity-statistics

AT&T can help

As a leader in networking, connectivity, and cybersecurity, AT&T Business takes a holistic approach, with helpful advice to guide your digital and business transformation.

We can help make it faster and safer to improve the patient and member experience, enhance communication and collaboration, protect private and proprietary data, and deliver care to remotely located patients.

6

Six ways AT&T Cybersecurity can help your organization engage in a safe digital transformation:

1. Cyber risk strategy and planning
2. Mobile device security
3. Data security and compliance
4. Employee cybersecurity training and mitigating risks
5. Cloud security, threat dection and response
6. FirstNet®, Built with AT&T

FirstNet and the FirstNet logo are registered trademarks of the FirstNet Responder Network Authority.

1. Cyber risk strategy and planning

How healthcare is transforming

Today's connected healthcare organizations are taking advantage of digital and network transformation to create modern patient experiences, drive cost efficiencies, and deliver innovation faster.

How cybersecurity fits in

Healthcare organizations must address cyber risk as part of the strategy, design, and delivery of any digital or network transformation initiative.

How AT&T Cybersecurity can help

AT&T Cybersecurity can provide cybersecurity consulting services tailored to help healthcare providers develop a strategy and plan managing for cyber risk and compliance.

How mature is your cybersecurity posture? Compare it against your peers.

2. Mobile device security

How healthcare is transforming

In-home care providers and first responders use AT&T mobile data networks to access internal applications to send critical patient information in near real time from mobile devices.

How cybersecurity fits in

Healthcare organizations must provide mobile and remote employees with highly secure and encrypted access to internal systems and devices that are protected against emergent mobile-based attacks.

How AT&T Cybersecurity can help

AT&T Cybersecurity provides endpoint security for mobile devices and network security services like AT&T Secure Remote Access and AT&T Secure Web Gateway that help to protect remote access to the web as well as internal applications and data.

3. Data security and compliance

How healthcare is transforming

Healthcare providers and payers transmit sensitive electronic personal health information (ePHI) across internal MPLS networks and share data with third-party suppliers, such as medical labs over the internet.

How cybersecurity fits in

Healthcare organizations must work to provide that ePHI is handled in accordance with regulatory requirements like HIPAA, HITRUST and the GDPR.

How AT&T Cybersecurity can help

AT&T Cybersecurity consulting helps healthcare organizations to accelerate and simplify compliance efforts with **regulatory and industry standards-based assessments**.

4. Employee cybersecurity training and mitigating risks

How healthcare is transforming

Clinicians, researchers, and other staff members require fast and reliable broadband internet connectivity and e-mail for daily work.

How cybersecurity fits in

Healthcare organizations should train staff to recognize web and email-based attacks like phishing and ransomware. By segmenting and monitoring the network and email, organizations can work to protect devices and sensitive data from web and email-based attacks.

How AT&T Cybersecurity can help

AT&T Cybersecurity can help on multiple fronts with cybersecurity awareness training for employees, while identifying and managing your vulnerabilities with AT&T Managed Vulnerability Program.

5. Cloud security

How healthcare is transforming

Virtualized care solutions allow healthcare providers to connect with patients through public cloud infrastructure and applications to schedule appointments, provide medical advice, and share other personal health info.

How cybersecurity fits in

Healthcare organizations must protect web applications and patient data against cyber threats and fraud by establishing cloud security policies and continuously monitoring for threats against public cloud environments.

How AT&T Cybersecurity can help

AT&T Cybersecurity provides comprehensive cloud security solutions, including cloud security assessment services, application layer security, and threat detection and response for multi-cloud and SaaS environments.

Blood Glucose Report

Send to Care Team

6. FirstNet: Highly secure connectivity healthcare providers can count on

Healthcare providers, including doctors, nurses and other staff members on the front line, are eligible for FirstNet, Built with AT&T. FirstNet is the only communications network **built with and for first responders**.

FirstNet offers an available comprehensive suite of solutions that customers may deploy to address their applicable security requirements. The highly available, redundant, physically separate, dedicated core was designed to comply with many standard security regulations and needs, and it will continue to evolve to take advantage of new technologies and address emerging requirements.

FirstNet Security Operations Center

- Closely collaborates with AT&T security experts
- Monitors and manages FirstNet traffic 24x7x365
- Focuses solely on the security needs of FirstNet

FirstNet and the FirstNet logo are registered trademarks of the FirstNet Responder Network Authority.

Why AT&T Cybersecurity

AT&T Cybersecurity has a rich heritage in helping make it safer for organizations to innovate.

140+
years of managing and protecting a global network

200+
SD-WAN countries and territories global availability

More than
2,000
cybersecurity specialists

8 global SOCs monitored
24/7/365

20м+
threat indicators submitted daily by
180к
security professionals as part of our OpenThreat Exchange™ community

25+
years of cybersecurity consulting practice with an average of

12
years experience

20+
Expert engineers' average years of network experience

Take action now

Discover

Review AT&T Cybersecurity solutions online.

Explore

Consider

Take our online cybersecurity risk self-assessment to see where your organization stands. Get immediate, customized results.

Start

Engage

Contact AT&T Cybersecurity today to get started.

Contact us online

Call AT&T: 888.613.6023