

Cyber Insurance for the Healthcare Industry

CHUBB®



Introduction

The healthcare industry has experienced many of the large and notable data breaches over the past decade.

As the industry has modernised its systems and processes to facilitate easy access to its customer's most sensitive data, so too has it become exposed to internal and external threats putting that data at risk.

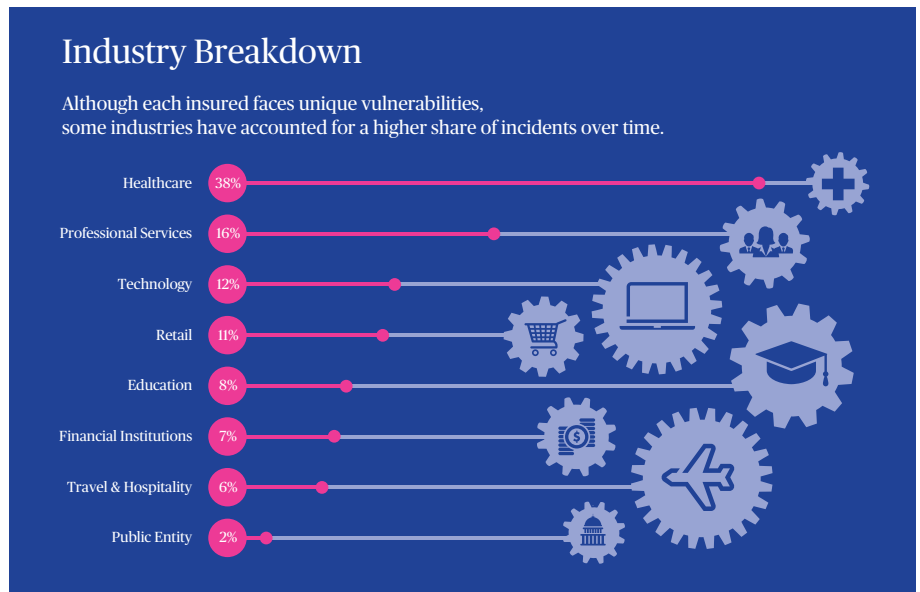
Beyond the mega breaches in the headline news though, it is often small and medium sized healthcare organisations facing a frequency of cyber incidents. These incidents can arise out of cyber-attacks or simply a human error, and can result in a myriad of different costs.

While the frequency, nature and severity of cyber incidents are constantly changing, patterns have in fact emerged for many industries which demonstrate key exposures and the corresponding controls necessary to mitigate them.

For the healthcare industry, the role cyber insurance can play in complimenting an enterprise risk management approach to cyber risk is increasingly clear.

Cyber Incidents By The Numbers

Based on an analysis of Chubb's prior decade of claims experience, the healthcare industry made up 38% of all claims reported during that period. Further, the trend of incidents impacting the industry has continued into 2018 as the number of Chubb healthcare cyber-related incidents grew 13% over the past two years.



Source: Chubb's global claims data (10 years of data as of December 2017)

Internal Threats Rising

In terms of the make-up or "triggers" of cyber claims for the healthcare industry, Chubb's experience in many ways debunks the belief that external bad actors hacking into an insured's system are the predominate threat. In fact, just 9% of healthcare breaches have resulted from Hacks, which is the lowest of any industry we track.

On the other hand, Human Errors and Rogue Employees have accounted for a combined 58% of all incidents. This experience suggests that while perimeter controls used to protect the organisation from malicious intrusion remain critical, other areas like employee training and internal access controls are equally important.

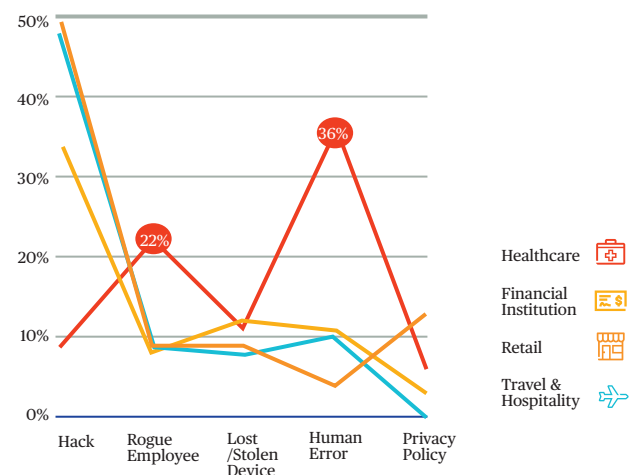
Human Error

36%

and Rogue Employees

22%

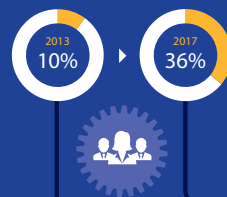
account for the majority of the healthcare breaches



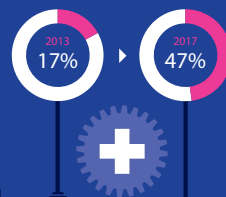
Source: Chubb's global claims data (10 years of data as of December 2017)

Human Error Incidents Increasing in Frequency

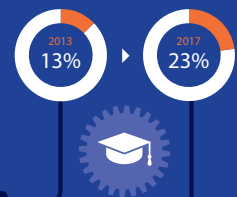
Professional Services



Healthcare



Education

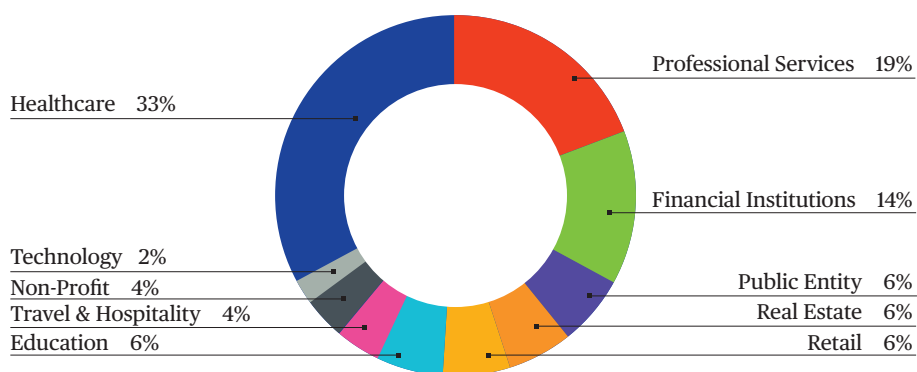


Source: Chubb's global claims data (10 years of data as of December 2017)

Ransomware On The Rise

Security Research firm Cybersecurity Ventures estimates global ransomware damage costs to be US \$5 billion in 2017, with projections for damages to exceed US \$11.5 billion annually by 2019.

From the perspective of incidents handled by Chubb, the healthcare industry accounted for 33% of all ransomware attacks noticed, which is the most of any industry. These attacks have become increasingly destructive, and can have a significant impact on insureds in terms of the immediate costs incurred to mitigate and recover from the incident, as well as the lost income during the period of interruption.



Source: Chubb's global claims data (10 years of data as of December 2017)

Key Exposures

The following are some of the privacy and network security exposures faced by the healthcare industry:

- Data Breach - the theft of Personally Identifiable Information or Personal Health Information.
- Business Interruption - lost income and extra expenses arising out of malicious attacks or employee errors.
- Social Engineering - phishing emails or fake phone calls leading to the release of credentials or other sensitive information.
- Rogue Employees - malicious or even curious actors with access to patient data.
- Supply Chain - disruptions to your vendors like payment processors or Electronic Health Record portals.

Key Coverages Available

Cyber incidents can trigger immediate, direct costs as well as resulting liabilities. Some key elements of cover include:

- 24/7 Incident Response Expenses including Legal, IT Forensics, Public Relations and other Crisis Management experts available around the clock to assist in investigating and remediating cyber incidents.
- Business Interruption Loss due to a cyber-attack, network security failure, human errors, or programming errors.
- Data Asset Loss and restoration including decontamination and recovery for corrupted data.
- Network Extortion incidents like ransomware demands, where insurable by law.
- Liability arising from failure to maintain confidentiality of data or failure to prevent unauthorised access to your network.
- Regulatory investigations and resulting fines/penalties, where insurable by law.

A Cyber Claim Scenario: What Chubb Has Paid

A hospital's computer system was the subject of a ransomware attack. While the attacker sought only \$500, the attack essentially shut down the medical facility. The hospital incurred significant expenses attempting to restore the data from backup systems, and payroll, billing and imaging systems were inoperable during the period of restoration. With its systems completely corrupted, the hospital resorted to paper mode to chart and monitor patients. As a result of the attack, more than \$700,000 was paid for forensics, data recovery, business interruption and crisis management costs.

Best Practice Controls

Implementing a holistic risk mitigation plan is the best defense against all types of cybersecurity breaches. Consider implementing the following seven measures to protect your organisation:



Backup all systems routinely



Providing annual employee trainings for both medical and non-medical staff on emerging cybersecurity threats and red flags to watch for



Enable strong spam filters



Invest in technologies that can scan and review emails for suspicious activity



Limit access to privileged accounts



Conduct regular penetration tests



Improve password hygiene

About Chubb in Singapore

Chubb is the world's largest publicly traded property and casualty insurer.

Chubb Insurance Singapore Limited, via acquisitions by its predecessor companies, has been present in Singapore since 1948. Chubb in Singapore provides underwriting and risk management expertise for all major classes of general insurance, including Property & Casualty, Marine, Liability, Financial Lines and Group Personal Accident insurance. As one of the leading providers of Accident & Health insurance through direct marketing, the company partners with financial institutions and other companies to tailor individual policies for their clients and employees. In addition, it offers a suite of customised Personal & Specialty insurance solutions to meet the needs of consumers.

Over the years, Chubb in Singapore has established strong client relationships by delivering responsive service, developing innovative products and providing market leadership built on financial strength.

More information can be found at www.chubb.com/sg

Contact Us

Chubb Insurance Singapore Limited
138 Market Street
#11-01 CapitaGreen
Singapore 048946
O +65 6398 8000
F +65 6298 1055
www.chubb.com/sg

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