

# EVERY ORGANIZATION HAS CYBER RISK



Technology is transforming the modern business landscape – not only speeding innovation and productivity, but also widening the door to cyber threats. This means that every business, regardless of industry, geography, or size, is exposed to cyber risk. And the stakes are escalating: the global cost of cybercrime is estimated at close to \$600 billion¹ – \$100 billion more than in 2014 – and is expected to rise with the growing use of technology and internet-connected devices.

Data breaches continue to plague organizations; the average number of successful breaches per organization each year has risen more than 27 percent, to 130 in 2017.<sup>2</sup> But if you think your organization is immune because it doesn't handle sensitive customer data, think again.

Cyber-attack and massive data fraud rank as **top 5 business risks** for the first time.

- WORLD ECONOMIC FORUM 2018

Cost of data breach will reach **\$2.1** trillion globally by 2019.

- JUNIPER

We had to **install an entire infrastructure**... 4,000 new servers, 45,000 new PCs, 2,500 applications...a heroic effort over 10 days.

– J. HAGEMANN SNABE, CHAIRMAN, A.P. MOLLER-MAERSK, ON NOTPETYA IMPACT

**50 billion devices** will be connected to the internet by 2020.

- OLIVER WYMAN

The new normal today in cyber is an increasing frequency of attacks, increasing aggressiveness, and increasing disruptive cyber operations.

- J. DARBY, DEPUTY CHIEF, NSA CYBERSECURITY OPERATIONS.



<sup>&</sup>lt;sup>1</sup> McAfee and the Center for Strategic and International Studies, Economic Impact of Cybercrime — No Slowing Down.

<sup>&</sup>lt;sup>2</sup> Ponemon Institute and Accenture, 2017 Cost of Cyber Crime Study.

# CYBER RISK THREATENS YOUR BUSINESS, NOT JUST YOUR IT SYSTEMS

Today, cyber-attacks have moved beyond data breach to disruptive and even destructive attacks that can paralyze business operations. In 2017, two forms of malicious malware ('NotPetya' and 'WannaCry') spread rapidly across the world, encrypting hundreds of thousands of computers and paralyzing businesses in numerous industries, including manufacturing and transportation. Aggregate economic damage from these two attacks is estimated to exceed \$3 billion.<sup>3</sup>

Cyber risk has raised the stakes. Gone are the days when the IT department alone was charged with assessing, preventing and defending against cyber-attacks. Cyber risk is now an enterprise-wide concern given the potential consequences – lost revenue; response and recovery costs; and damage or loss of intellectual property, business relationships, job security, and customer confidence. All organizations are vulnerable.

\$3 billion+
economic damages
from NotPetya and
WannaCry attacks.

#### Major Global Cyber-Attacks, 2014-2018 Impact: Financial Losses and Expenses, Estimated Airline **Data Breach** Financial Services • 9.4M passenger Healthcare Hospitality • 83M households and small records accessed • 500M records exposed businesses affected · 80M customer records • Impact: share Impact: 150M records Impact: \$375M price slid to · Impact: Doubled cyber spend to \$500M for sale on dark web 9-year low Retailer **Credit Reporting** Healthcare 1.5M patient 56M card numbers · Terabytes of data stolen, 145M consumers data stolen erased, released • Impact: \$260M • Impact: \$439M Impact: \$40M 2014 **Flectric Grid** Ransomware: 150 Countries, Semiconductors 300k Computers Power distribution control Production facilities seized, backup disabled · Locked manufacturing, shutdown payment, ordering, medical • Impact: national blackout Impact: \$170M machines and systems Impact: \$500M Manufacturing Petrochemicals · Prevented furnace shutdown · Destroyed hard drives, erased data • Impact: massive damage to • Attempted sabotage, explosion Technology system Customer Consumer, Logistics, Manufacturing, Materials, Pharma, domain service/access Transport, Telecom Wiper malware disabled production, shipping, invoicing, • Impact: >8% customers lost **Business** operations, customer service systems Interruption · Impact: Up to \$3B

<sup>&</sup>lt;sup>3</sup> Cambridge Centre for Risk Studies and Risk Management Solutions, Cyber Risk Outlook 2018

## EVERY ORGANIZATION CAN BENEFIT FROM CYBER INSURANCE

Every organization should have a comprehensive cyber risk management strategy, and cyber insurance should be a core component. An essential financial instrument in the risk management toolbox, cyber insurance is complementary to cybersecurity, not an alternative.

#### WHAT DOES CYBER INSURANCE COVER?

Cyber insurance should ideally be tailored to the unique cyber risk profile of an individual organization, which is shaped by the organization's use of technology in its operations; interactions with vendors, suppliers, customers, and other third-parties; and how it collects, handles, stores, and transmits confidential information. Generally, however, most cyber policies will include a range of basic coverages and can be tailored to include additional coverages.

In addition, policyholders benefit from a range of value-added services provided by carriers to help improve and strengthen organizational cyber defenses. These services can include technical advice and risk mitigation counsel; vulnerability detection tools; and cyber education and incident response planning.

## WHAT IS THE VALUE OF CYBER INSURANCE? WILL IT PAY?

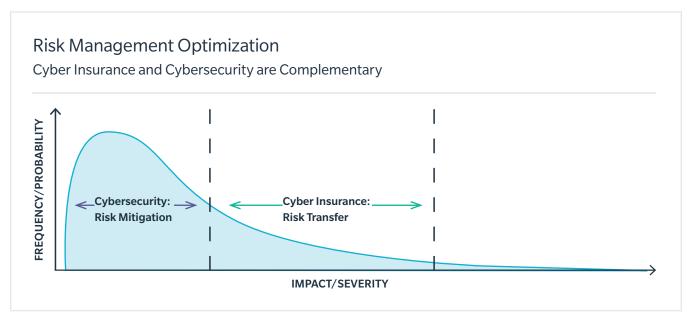
Cyber insurance has proven responsive. Cyber insurers paid direct statutory losses totaling \$226 million in 2017, a \$30 million increase over 2016.<sup>4</sup> For high-severity cyber events where the financial impact is significant, cyber insurance is a cost-efficient risk transfer tool that can help organizations mitigate cyber-attack cash outflows and losses.

# **GENERAL CYBER INSURANCE COVERAGES BUSINESS** INTERRUPTION AND EXPENSE DATA RANSOMWARE BREACH COSTS ر <del>برال</del>اً. (-0-) **DATA AND** REGULATORY **INFORMATION** AND LIABILITY **RESTORATION** Δ

# WHY SHOULD I BUY CYBER INSURANCE? MY ORGANIZATION INVESTS HEAVILY IN CYBERSECURITY TECHNOLOGY.

Despite soaring cybersecurity budgets, the cost of cyber risk continues to climb. The fact is, cyber risk cannot be eliminated: it must be managed. No technology or firewall can stop every cyber threat. When the inevitable happens – a cyber-attack penetrates your organization and impacts your

networks, systems, and/or operations – cyber insurance responds. It protects your organization from the potentially devastating economic consequences of a high severity cyber event, as well as the financial impact of more "routine" cyber events.



<sup>&</sup>lt;sup>4</sup> Credit Sights, P&C Insurance: Cyber Market Continues to Grow, June 2018

## **QUESTIONS ABOUT CYBER RISK MANAGEMENT? MARSH HAS ANSWERS**

Cyber risk may be pervasive, but it can and should be managed like all other organizational risks: strategically, quantitatively, and resiliently. At Marsh, we help you manage cyber risk with confidence. We apply proprietary analytics and modeling tools to help you understand and quantify your cyber exposure, and evaluate your cyber insurance needs. We then apply our expert analysis to design and deliver best-in-class risk management solutions tailored to your organization's specific cyber risk profile and risk tolerance.

Talk to Marsh today about how we can apply our knowledge, experience and market-leading products to:

- Assess and quantify the potential cost of a cyber-attack on your organization.
- Design and deliver a tailored insurance program that aligns with your existing policies and optimizes your cyber risk investment.
- Strengthen your cyber resilience and response through custom education and coaching programs; planning and performance reviews; and risk mitigation and loss prevention tools.



To learn more about our cyber risk management solutions, contact your Marsh representative or:

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