Increasing Ransomware Attacks Trigger Major Shifts in Cyber Insurance

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Resources available on the MHEC website post-event.



Submit questions in the Q&A.



Please complete our survey.



October 6, 2021

Cyber Insurance

 Tailored to deliver the right mix of risk transfer and advisory solutions for institutions to

√assess,

✓ manage, and

✓ respond to institutional risk

- Policyholders are expected to protect data and systems; these areas will be scrutinized before pricing cyber insurance policies.
- More info: <u>mhec.org/cyber</u>



Today's Presenters from Marsh







Frank Cella

Lindsay Combs

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MHEC Security Services Contracts

- Competitive RFP Process
- Five Product and Service Categories:
 - Security Threat Intelligence Products and Services (TI);
 - Security Information and Event Management (SIEM),
 - Managed Security Services (MSS),
 - Security Consulting Services (Consulting), and
 - Security Awareness Training (training).
- Six contracts awarded, additional contracts pending
- More info: <u>mhec.org/security-services</u>



Contacts for Additional Questions

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2021 US Education Cyber- Insurance Market Update for MHEC

October 6, 2021

A business of Marsh McLennan

Ransomware epidemic triggers major shift in cyberinsurance –



What risk controls can your institution implement to mitigate cyber-risk and meet the underwriting expectations of insurers?

Challenges Driving the Global Cyber Market Today

Ransomware

- Ransomware perpetrators carry out more than 4,000 attacks daily
- One in 3,000 emails that pass through filters contains malware
- 95 new ransomware families were discovered in 2019
- The global cost associated with ransomware recovery will exceed \$20 billion in 2021
- Terms being readjusted to account for this growing trend

Systemic Loss and Aggregation Exposure

- Difficulties in understanding and quantifying exposure one malware can impact multiple organizations around the world
- Increased awareness of aggregation events and supply chain risk, causing capital volatility (Solarwinds, MS Exchange, Accellion one after the other)
- Unlike in the past years when the market was soft, insurers are now forced to price for "systemic event losses"

Frequency and Severity Beyond Ransomware

- Increasing sophistication and morphing nature of cyber attacks
 reshaping loss development patterns
- An attacker only needs to be successful one time; the insured 100% of the time
- Insurers' rating models did not accurately predict loss severity
- Evolving privacy regulation mean potential increases in regulatory fines & penalties, wrongful collection/ BIPA claims

Market Contraction

- Increasingly conservative limit deployment in response to increased volatility from large loses and deteriorating financial performance
- Insurers now see the "cyber" product line as both long tail (liability, regulatory) as well as short tail (ransom demand and breach response expenses).
- There is now a significantly higher price to obtain capacity



Coverage / Product

- Cyber coverage has broadened significantly in the past 7 years, e.g. Blanket Dependent Business Interruption cover, no sublimits, and customized policy language, which is now causing concerns for Insurers
- Coverage sustainability is challenged by deteriorating profitability

Cyber Trends Dominated by ransomware, regulations & supply chain cyber risk



Ransomware attacks continue to increase in frequency, severity & sophistication – impacting orgs of all sizes & industries:





- Large insurer: \$40M paid
- Oil pipeline: \$4.4M paid
- Infrastructure: \$50M demanded
- Food manufacturer: \$11M paid
- Chemical distribution:\$4.4M paid

63

Tech hardware: \$50M demanded

Privacy regulations are intensifying and there's still a patchwork approach:

- GDPR fines are growing (~\$27M BA, ~\$24M Marriott, ~\$41M H&M)
- CCPA (California Consumer Privacy Act) and similar legislation (i.e. VA CDPA) allow for private rights of action and require additional compliance efforts
- **BIPA** (IL Biometric Information Privacy Act) litigation is expensive and is on the rise with increased use of biometric identifiers, especially for employee access driving additional underwriting questions

Supply chain and systemic risk now garner more focus:

- Aggregation exposure a concern for underwriters
- Systemic loss possible cyber risks:
 - Common vulnerabilities in hardware or software
 - Common dependencies vendors (such as cloud providers) and software
- **Cyber events** are driving increased scrutiny: SolarWinds, Accellion, Microsoft Exchange, & Kaseya

Cyber Insurance Market Snapshot

Underwriting **Claims Rates Capacity &** Coverage **Attachment** Loss environment has Overall claims frequency and Claims activity and future Full application & responses Many carriers scaling back to ransomware Q's are severity remains high driven resulted in accelerating uncertainty have resulted in ransomware-related by ransomware. Mild insurers aggressively pricing pressure even on loss required; carriers using third coverages (sublimits or improvement in some free accounts with good coinsurance), or not offering managing global capacity parties to externally scan categories but overall, loss controls. Expect rate and increasing SIRs. Excess environments. Underwriters coverage if poor controls. More scrutiny on contingent ratios continue to deteriorate. increases to continue rising pricing increasing at a faster will inquire about recent through the rest of the year. rate than primary, systemic/supply chain events business interruption due to systemic risk concerns. compounding increases. & related exposures Aug Cyber Renewals: Aug Cyber Premiums: +55% **21%** reduced limits 12 +112.6% YoY Increase In Loss in average BI / CBI Key Controls & **17%** increased limits average increase waiting periods Ratios, indicating an **Best Practices** +155% due to ransomware and industrywide underwriting are now viewed by 62% increased SIRs supply chain attacks loss for 2020 carriers as essential 3rd quartile increase Driven by insureds minimizing increases & less available capacity. 150%+ looking forward

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Favors Buyer Neutral Favors Insurers

Cyber Insurance Market Snapshot – Higher Education



Cyber Insurance Market is Turbulent for Higher Education

- > The capacity available for higher education risks is shrinking.
- Rates increases are more severe in the higher education space than the broader cyber marketplace
- Carriers that are willing to offer full ransomware coverage are demanding a premium for it.
- Control differentiation is critical there are specific controls that the market sees as "minimum standards" – without these controls, some institutions may have trouble finding solutions.

Top Cybersecurity Controls

Insurability is increasingly dependent upon controls

Preparation for underwriting:

- 1. Get started early!
- 2. Ensure adequate cybersecurity controls are in place (Cyber Self-Assessment) where improvements are needed, leverage Cyber. Catalyst vendors.
- 3. Expect more rigorous underwriting and more detailed questions from underwriters.
- 4. Without positive responses in the top 12 control categories, coverage offered and insurability may be in question.

Multi-Factor Authentication (MFA) for remote access & admin/ privileged access	Endpoint Detection & Response (EDR)	Secured, encrypted, and tested backups	Privileged Access Management (PAM)
Patch management / Vulnerability management	Logging & monitoring / Network protections	Email filtering & web security	Cybersecurity awareness training / phishing testing
Cyber Incident Response planning & testing	End of Life Systems should be replaced or protected	Hardening techniques including Remote Desktop Protocol (RDP) mitigation	Vendor / Digital Supply Chain Risk Management

Note: Each insurance carrier has their own specific control requirements that may differ by company revenue size & industry class

Cyber Insurance Market Preparation

Develop strategy early to execute on goals

	What to expect	How to prepare & execution strategy
Claims	 Ransomware continues to increase; supply chain attacks are of concern; regulatory actions are garnering more focus; and media copyright infringement claims are rising. Underwriting actions since beginning of 2021 appear to have some mitigating effect*, but too soon to tell market impact. 	 Improve security & claims posture: Leverage carrier preferred vendors and Marsh Catalyst solutions to improve security posture. Update and practice incident response plan specific to ransomware scenario. Identify vendor and legal counsel partners you might engage and evaluate against insurer's panel. Identify any problematic IP addresses & remote desktop protocols (RDP).
Structure	 Capacity & attachment: Expect tower restructuring as carriers limit capacity and change appetite. Coverage: Clients with lesser cybersecurity maturity should expect potential limitations on coverage – including sublimits, coinsurance or non-renewal. Rates: Even better than average risks will see increases (new buyers included.) 	 Explore structure options: Demonstrate strong ransomware controls during the underwriting process. Prioritize program components & goals: carrier partners, limits, attachment, and consider ability to retain risk. Consider alternative terms and conditions to minimize increases & maximize coverage, including increased retentions and alternative limit options. Use of insurers in the US, London, & Bermuda may increase terms available.
Under- writing	 Controls most effective at mitigating current risks will continue to garner underwriter focus – it is essential to address potential security gaps <u>prior to</u> underwriting to achieve optimal results. Excellent controls are now the baseline to access coverage but have little impact on pricing – all clients will see increases. 	 Provide robust underwriting data: Use <u>Marsh Cyber-Self Assessment</u> to minimize need for multiple supplemental applications (includes ransomware Qs & provides additional insights.) Ransomware supplemental will still be required. Critical to get started early! Highlight significant cybersecurity updates & improvements over past year – especially multi-factor authentication (MFA) & endpoint detection and response (EDR.)
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