

MEMORANDUM

TO: Property and Casualty Insurance (C) Committee

FROM: NAIC Staff

DATE: Oct.18,2022

RE: Report on the CybdnsuranceMarket

The NAICcollects datafrom insurers writing cybeinsurance through its Property/Casualty Annual Statement Cybersecurity and Identity Theft Supplement Supplement CyberSupplement data haveen collected since 2016, and alien surplus lines data was dected beginning in 2017. This report focuses on the cybersurance market by presenting data found within the Cybersupplement and alien surplus lines data collected through the NAIC's International Insurers Department (IID). The report discusses changes in the cyberset and the reasons for the changes to help better achieve an understanding of the U.S. in its Property Casualty Annual Statement Cybersurance market.

Overview

Cybersecurity protection continues to be vital to U.S. busine steetive and efficient operation. Busines in the financial sector remainst risk for a cyberattack Insurers are not only susceptible cyberattacks but also to their cyberin surance products

Data breaches in 2021 outpaced those in the pytem, increasing by 68%. Breachesolving personally identifiable information (PII) like Social Security numbers (SSNs), increased slightly from 80% to 83% in 2021.

The healthcare industry rapidly moved to digital while the virtual work environment expanded. In 2021, nearly 50 million people in the U.S. faced a breach of their personal health information, the highest number to date. Healthcare data breaches hatripled over the past three years. The healthcare industryove to digitize health records helped traccelerate these breaches.

While the healthcare industry experienced numer **bus** aches, **b** sinesse in many industries have seen a rapid rise in ransomware and supply chain attacks. These increases **healthead** bute to the rise in the premiums charged for cyber insurance.

Because of the increasing cybersecurity, businesses are fag a more demanding underwriting process. Insurers are more thoroughly examining a companyecurity controls, internal processeand procedures concerning cyber risk. Additionally, underwriters are more cautious in examining an itsusted presented by the third parties working or contracting with the insuréd.

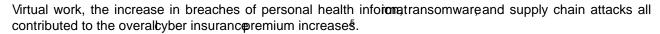
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¹ Identity Theft Resource Center (ITR@022).Identity compromises from the era of dentity theft to the age of dentity fraud. www.idtheftcenter.org/publication/2021annual-data-breach-report-2/

² Leonard, B(2022, March 23 Health data breachesswell in 2021amid hackingsurge, POLITICO hallysis inds POLITCO. https://www.politico.com/news/2022/03/23/healthdata-breaches2021 hackingsurgepolitico-00019283

³ Black Kite. (2022). Mght for coverage Cyber insurance risk in 202 https://blackkite.com/wpcontent/uploads/2022/04/Black_Kite_CyberInsurance_Report_2022.pdf

⁴ Woodruff Sawyer. (2022). Cyblerbility: Lookingahead to 2022https://woodruffsawyer.com/wpcontent/uploads/2022/01/Cyberbooking AheadGuide2022_Web.pdf



Size of U.SCyberInsurance Market

The 2021 data shows cyberinsurance market, including both U.S. domiciled insurers and alien surplus lines insurers writing business in the U,Suf roughly \$5.5 billion in direct written premiums This reflects an increase of 61% om the prior year.

The chart below depicts the information collected from all years of data collection.

NAIC Cyberecurity and Identity Theft Insurance Coverage Supplement a ac aow

Figure 1. Direct Written Premium and Percent Change by Year (Does Not Include Alien Surplus Lines Data)

Loss Ratios

The top 20 groups reporting on the Cyber Supplement reported direct loss ratios in the range/ofte 130.%. Figure2 depicts the average loss ratios over the past five ars. The loss ratio for 2012 of the top 20 groups averaged 66.4% down slightly from 66.9% in 2020.

Figure 2. Loss Ratios with Defense and Cost Containment (DCC) Stand-Alone and Package Policies Combined (Does Not Include Alien Surplus Lines)

Exhibit 1 presents the loss ratios for the top 20 insurer groups. It is important to note that the insylvence market is still developing and growing. Increasing loss ratios in 2020 was one item triggering a substantial increase in premiums and premiungrowth in 2021, surpassing incurred losses. Current loss ratio improvements are apt to be linked to insurers sisk selection shifts and stricter policy terms and condition

⁶ Fitch Wire. (2022, April 13).S cyberinsuranceesrapid premiumgrowth, declininglossratios. https://www.fitchratings.com/research/insurance/usyberinsuranceseesrapid-premium-growth-declininglossratios-13-04-2022

Exhibit 1:Top 20 Admitted Group DoesNot Include Alien Surplus Lines)

٠	2021 Rank		Group Number	Group Name	Direct Written Premium	Loss Ratio w/DCC	Market Share	
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Most businesses use thimparty vendors, suppliers, or other types of providers. Frequently, these third parties have access to a company's information system. When a cybercriminal infiltrates a company's ation system through a third party, it is called a supply chain attactive.

Thereare two types of supply chain attacks) software supply chain attacks 1 1.02;

Insurers are implementing more restrictive coverage tewits in cyberinsurance policies. Additionally, insurers are prohibiting some prevalent cyber incidents and including mandatory sublimits. These steps indicate insurers are not wanting to bear the entire cost of a ransomware incident.

The underwriting process is becoming more stringent, and it is likely ipms will continue to increase. To offset the increased cost of cyberisurance, policyholders may begin to take higher selfinsured retentions. This may also drive businesses to take on a more significant role in managing their seyberityrisk. ²³ Cyberinsurance is one option available to address riskolwever, underwriters do not believ that buying additional cyberinsurance should be used as an instrument to alleventisk. ²⁴

Additionally, Insurers are writing less business to help control their expostres21 brought about another decrease available cyber insurance limits These limits were often reduced to \$1 million - \$3 million, even at renewal. For a company to retain the same policy coverages, for its do obtain more policies in order to keep the same coverage itarried in the previous yea?

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that cyber risk is a looming issue, it is not uncommon for policyholders to believe their current business insurance policycoves a cyber loss.

More insurers have moved into the cybiansurance marketHowever, insurers with a consistently stable market presence are reducing capacity management restrictions and expanding the amount of business they can write. New entrants have generated an excess capacity of around \$50 million.

The war in Ukraine poses systemic risks and risks related to the supply chain. These risks have amplified concerns regarding aggregation. Insurers continue to examine war exclusions, territory restrictions, systemic risk, and secondary coverages like cybercrime or theft.

While pricing disruptions are occurring in some industry sectors more than othersatthept increase incyber premiums appears to be slowing. Assuming capacity expands and loss performance improves, the cyber insurance market in 2022 holds promise for those purchasing cyber insurance.

Data analyzed for this report show that the cyber insurance market is growing rapidly, though much of that growth has likely been due more to premium rate increases than increases in take rates or broadening coverage. Regulators continue to assess the interms of how insurance is providing protection to policyholders.

In terms of future data collectin, the Property and Casualty Insurance (C) Committeeonsideringstrengthening the Cyber Supplement's instructions, providing insurers with more guideonofeling the NAIOProperty/Casualty Annual Statement BlankAdditionally, here will likely be changes to the collection of policioesa claimsmade or 2.6 6s)-1)9[(s-3/(e5pu)5e)ac)e0resi(inal)2ppT(h1)2Tt)(16-6s)/(e5pu)55a9Td(f1)2tt)(if)2tt)