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Overview

- Cyber Threat Environment
- Significant Costs and Consequences
- III. Recent Case Study
- IV. Heightened Regulatory Enforcement
- V. Morgan Lewis Guidance and Services
- VI. Q&A

Preliminary Note

- Comments during this presentation are based upon:
 - Publicly available information;
 - General observations and experience; and
 - Not on any specific client case information.

CYBER THREAT ENVIRONMENT

Cyber Landscape and Risks



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5

Business Email Compromise



Jul 12, 2018

Alert Number
I-071218-PSA

Questions regarding this PSA should be directed to your local **FBI Field Office**.

Local Field Office Locations: www.fbi.gov/contact-us/field

BUSINESS E-MAIL COMPROMISE THE 12 BILLION DOLLAR SCAM

This Public Service Announcement (PSA) is an update and companion to Business E-mail Compromise (BEC) PSA 1-050417-PSA posted on www.ic3.gov. This PSA includes new Internet Crime Complaint Center (IC3) complaint information and updated statistical data for the time frame October 2013 to May 2018.

DEFINITION

Business E-mail Compromise (BEC)/E-mail Account Compromise (EAC) is a sophisticated scam targeting both businesses and individuals performing wire transfer payments.

The following BEC/EAC statistics were reported to the IC3 and are derived from multiple sources, including IC3 and international law enforcement complaint data and filings from financial institutions between **October 2013** and **May 2018**:

Domestic and international incidents: 78,617

Domestic and international exposed dollar loss: \$12,536,948,299

The following BEC/EAC statistics were reported in victim complaints where a country was identified to the IC3 from **October 2013 to May 2018:**

Total U.S. victims: 41,058

Total U.S. victims: \$2,935,161,457

Total non-U.S. victims: 2,565

Total non-U.S. exposed dollar loss: \$671,915,009

The following BEC/EAC statistics were reported by victims via the financial transaction component of the IC3 complaint form, which became available in June 2016³. The following statistics were reported in victim complaints to the IC3 from **June 2016 to May 2018:**

Total U.S. financial recipients: 19,335

Total U.S. financial recipients: \$1,629,975,562

Total non-U.S. financial recipients: 11,452

Total non-U.S. financial recipients exposed dollar loss: \$1,690,788,278

Spear Phishing Attacks

- Target particular users to entice them into opening an attachment or clicking on a link which launches malware on the system
- Nearly "80% of all espionage-motivated attacks used either a link or attachment in a phishing email to gain access to their victim's environment"

Ransomware Demands

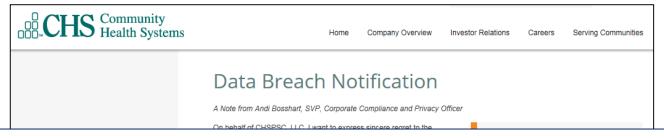
- Hackers "locked up the files, refusing to give back access unless the hospital paid up."
- "I'm not at liberty because it's an ongoing investigation, to say the actual exact amount. A small amount was made," the hospital president said.
- After payment, "the hackers didn't return full access to the files" and "demanded another ransom."
- "The hospital says, it will not pay again."



Nation State Actors



Foreign-Based Cyber Attacks



... a foreign-based cyber-attack of our computer network.... CHSPSC, LLC believes the attacker was an "Advanced Persistent Threat" group originating from China, which used highly sophisticated malware technology to attack CHSPSC, LLC's systems. The intruder was able to bypass the company's security measures and successfully copy and transfer some data existing on CHSPSC, LLC's systems.

and information technology services to certain clinics and hospital-based physicians in this area.

CHSPSC, LLC believes the attacker was an "Advanced Persistent Threat" group originating from China, which used highly sophisticated malware technology to attack CHSPSC, LLC's systems. The intruder was able to bypass the company's security measures and successfully copy and transfer some data existing on CHSPSC, LLC's systems.

card information as a condition of receiving identity theft consultation or restoration services.

PLEASE NOTE: We will NOT call or email anyone requesting any personal information as a result of this situation. If you receive an unsolicited call or email that appears to be from CHSPSC, LLC,

SIGNIFICANT COSTS AND CONSEQUENCES

COMPLEX, COSTLY, BURDENSOME

2018 Cost of Data Breach Study: Global Overview

Global study at a glance

> Average total cost of a data breach:

\$3.86 million

> Average total one-year cost increase:

6.4%

> Average cost per lost or stolen record:

\$148

> One-year increase in per capita cost:

4.8%

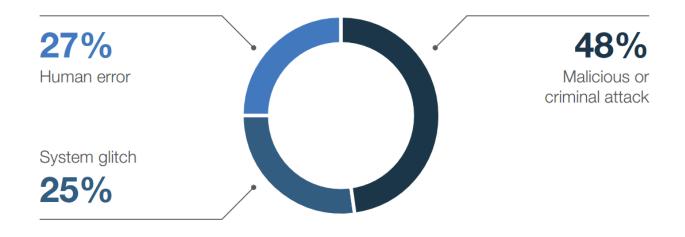
> Likelihood of a recurring material breach over the next two years:

27.9%

> Average cost savings with an Incident Response team:

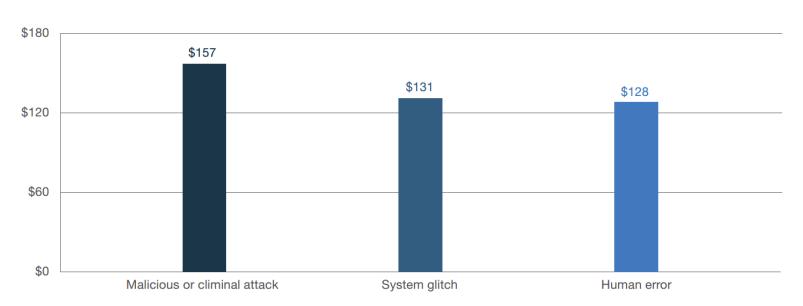
\$14 per record

Root Cause of Data Breach



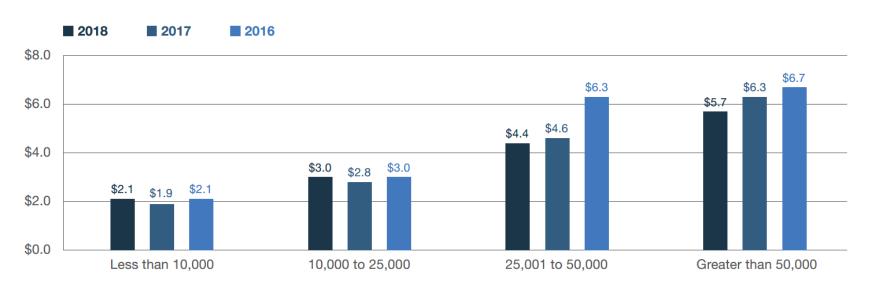
Cost Per Capita Based on Cause of Data Breach





Average Total Cost by Size

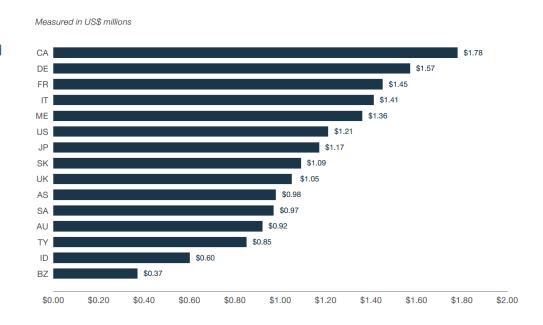
Measured in US\$ millions



Detection and Escalation Costs

Activities that enable a company to detect and report the breach to appropriate personnel within a specified time period.

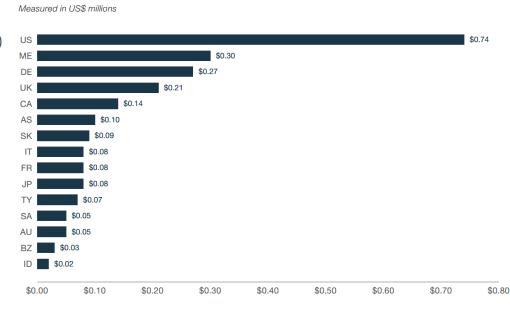
- Forensic and investigative activities
- Assessment and audit services
- Crisis team management
- Communications to executive management and board of directors



Notification Costs

Activities that enable the company to notify individuals who had data compromised in the breach (data subjects) as regulatory activities and communications.

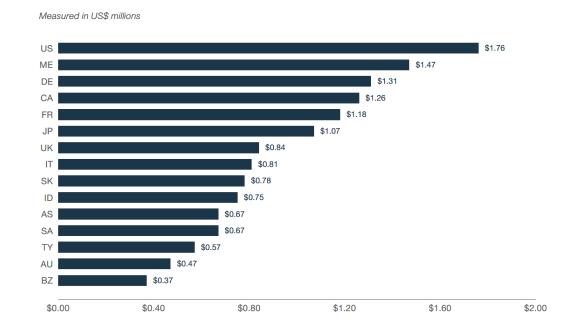
- Emails, letters, outbound telephone calls, or general notice that personal information was lost or stolen
- Communication with regulators; determination of all regulatory requirements, engagement of outside experts



Post Data Breach Response Costs

Processes set up to help individuals or customers affected by the breach to communicate with the company, as well as costs associated with redress activities and reparation with data subjects and regulators.

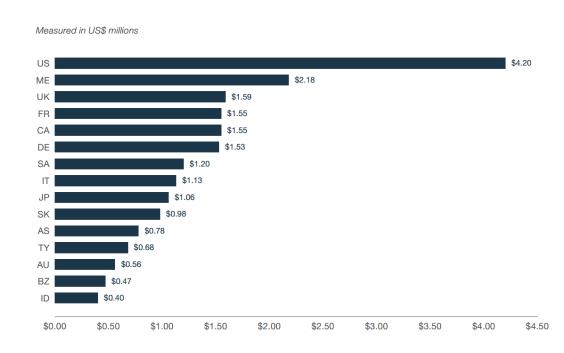
- Help desk activities/inbound communications
- Credit report monitoring and identity protection services
- Issuing new accounts or credit cards
- Legal expenditures
- Product discounts
- Regulatory interventions (fines)



Lost Business Costs

Activities associated with cost of lost business including customer churn, business disruption, and system downtime.

- Cost of business disruption and revenue losses from system downtime
- Cost of lost customers and acquiring new customers
- Reputation losses and diminished goodwill



"Under-Covered" for Cyber-Related Losses

- Equifax data breach (2017)
 - Cost approximately\$439 million to address
 - Only \$125 million was covered by insurance (71% underinsurance rate).



Home About Packages

In fact, Target's costs related to the data breach have reached \$252M in total, of which \$90M has been covered by cyber insurance. This is because the costs related to a data breach (and covered by cyber liability insurance) far exceed those of a settlement with effected customers. Those costs include:

- · Defending various lawsuits from banks and customers alike
- · Forensic / investigative costs to determine the cause of the breach
- · Data and network infrastructure restoration and costs
- · Compliance with breach notification laws
- · Business interruption costs for downtime while fixing the POS systems
- · Hiring marketing/PR firms to repair the reputational damage from such a disaster

In fact, Advisen's research has revealed that the Target data breach was the largest data breach incident in the last 8 years. Keep in mind that the claims are still rolling in! Though the company still had to pay over \$160M out of pocket, cyber insurance kicked in to cover a sizable portion of each of the above costs.

Preliminary Questions

- Did a "data breach" occur?
- Determining scope of data breach or incident.
- When was cyber compromise/incident discovered?
 - How was cyber compromise/incident discovered?
- How did cyber compromise/incident occur?
- When did the cyber compromise/incident occur?
 - Early assessments can be revised

- Who caused cyber compromise/incident?
 - Attribution analysis
- What security risks?
- Which regulators?
- Notification issues
- Public relations
- Cyber Insurance coverage

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RECENT CASE STUDY

Yahoo!, Inc.

- All information pursuant to SEC Order and Yahoo public filings:
 - Multiple data breaches over multiple years
 - On-going litigation
 - No insurance coverage

UNITED STATES OF AMERICA Before the SECURITIES AND EXCHANGE COMMISSION

SECURITIES ACT OF 1933 Release No. 10485 / April 24, 2018

SECURITIES EXCHANGE ACT OF 1934 Release No. 83096 / April 24, 2018

ACCOUNTING AND AUDITING ENFORCEMENT Release No. 3937 / April 24, 2018

ADMINISTRATIVE PROCEEDING File No. 3-18448

In the Matter of

ALTABA INC., f/d/b/a YAHOO! INC.,

Respondent.

ORDER INSTITUTING CEASE-AND-DESIST PROCEEDINGS PURSUANT TO SECTION 8A OF THE SECURITIES ACT OF 1933 AND SECTION 21C OF THE SECURITIES EXCHANGE ACT OF 1934, MAKING FINDINGS, AND IMPOSING A CEASE-AND-DESIST ORDER

I.

The Securities and Exchange Commission ("Commission") deems it appropriate that ceaseand-desist proceedings be, and hereby are, instituted pursuant to Section 8A of the Securities Act of 1933 (the "Securities Act") and Section 21C of the Securities Exchange Act of 1934 ("Exchange Act"), against Altaba Inc., t/d/b/a Yahoo! Inc. ("Yahoo" or "Respondent").

II.

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Yahoo!, Inc. - Incidents and Response Timeline

August 2013

Hackers steal data from 1 billion Yahoo users.

December 2014

 Yahoo's security team discovered that Russian hackers had obtained its "crown jewels"—the usernames, email addresses, phone numbers, birthdates, passwords and security questions/answers for at least 500 million Yahoo accounts.

2015 – Early 2016

 Yahoo's internal security team was aware that the same hackers were continuously targeting Yahoo's user database and also received reports that Yahoo user credentials were for sale on the dark web.

Summer 2016

- Yahoo negotiates with Verizon to sell its operating business.
- In response to due diligence questions about its history of data breaches, Yahoo gave Verizon a spreadsheet falsely representing that it was aware of only four minor breaches involving users' personal information. A new Yahoo CISO (hired in October 2015) concluded that Yahoo's entire database, including the personal data of its users, had likely been stolen by nation-state hackers and could be exposed on the dark web in the immediate future.

Yahoo!, Inc. – Disclosures

September 2016

 Yahoo discloses the 2014 data breach to Verizon and in a press release attached to a Form 8-K. Yahoo's disclosure pegged the number of affected Yahoo users at 500 million.

December 2016

 Yahoo discloses the August 2013 data breach, and that hackers had forged cookies that would allow an intruder to access user accounts without supplying a valid password in 2015 and 2016.

Yahoo, Inc. - Public Disclosures

Yahoo 2013 Account Security Update FAQs

Yahoo is providing notice to additional user accounts affected by an August 2013 theft of user data previously announced by the company in December 2016. This is not a new security issue. In 2016, Yahoo previously took action to protect all user accounts.

Below are updated FAQs containing details about the issue Yahoo announced in December 2016, what was done to secure user accounts, and additional account security recommendations.

- What happened?
- Was my account affected by the August 2013 incident?
- What information was taken in the August 2013 incident?
- s this October 2017 notification related to the data theft that Yahoo announced on December

14, 2016?

Yahoo!, Inc. - Disclosures

March 1, 2017

- Yahoo files its 2016 Form 10-K, describing the 2014 hacking incident as having been committed by a "state-sponsored actor," and the August 2013 hacking incident by an "unauthorized third party." As to the August 2013 incident, Yahoo stated that "we have not been able to identify the intrusion associated with this theft." Yahoo disclosed security incident expenses of \$16 million (\$5 million for forensics and \$11 million for lawyers), and flatly stated: "The Company does not have cybersecurity liability insurance."

October 3, 2017

 Yahoo discloses that all of its users (3 billion accounts) have likely been affected by the hacking activity that traces back to August 2013.

Yahoo!, Inc. Litigation

- SEC Action April 2018
- Securities Class Action Santa Clara County
- Derivative Lawsuit Northern District of California
- Individual Class Action Northern District of California
- DOJ Prosecution Against Hackers

Yahoo, Inc.: Enforcement Action



- Fine: \$35 million; SEC Order (April 24, 2018)
- Failure to Disclose: "Despite its knowledge of the 2014 data breach, Yahoo did not disclose the data breach in its public filings for nearly two years."
 - 2014 data breach disclosed in September 2016 in a press release attachment to a Form 8-K.
- Misleading Disclosures: Risk factor disclosures in annual and quarterly reports (2014 through 2016) "were materially misleading" by claiming "the risk of potential future data breaches ... without disclosing that a massive data breach had in fact already occurred."
- Stock Purchase Agreement: "affirmative representations denying the existence of any significant data breaches in a July 23, 2016 stock purchase agreement with Verizon."
- Ongoing cooperation

Press Release

Altaba, Formerly Known as Yahoo!, Charged With Failing to Disclose Massive Cybersecurity Breach; Agrees To Pay \$35 Million

FOR IMMEDIATE RELEASE

2018-71

Washington D.C., April 24, 2018 — The Securities and Exchange Commission today announced that the entity formerly known as Yahoo! Inc. has agreed to pay a \$35 million penalty to settle charges that it misled investors by failing to disclose one of the world's largest data breaches in which hackers stole personal data relating to hundreds of millions of user accounts.

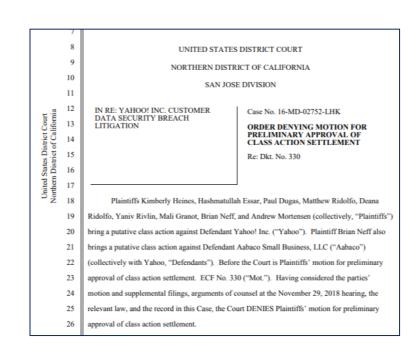
According to the SEC's order, within days of the December 2014 intrusion, Yahoo's information security team learned that Russian hackers had stolen what the security team referred to internally as the company's "crown jewels": usernames, email addresses, phone numbers, birthdates, encrypted passwords, and security questions and answers for hundreds of millions of user accounts. Although information relating to the breach was reported to members of Yahoo's senior management and legal department, Yahoo failed to properly investigate the circumstances of the breach and to adequately consider whether the breach needed to be disclosed to investors. The fact of the breach was not disclosed to the investing public until more than two years later, when in 2016 Yahoo was in the process of closing the acquisition of its operating business by Verizon

Yahoo!, Inc.: Securities Class Action and Derivative Lawsuit

- Securities Class Action September 7, 2018
 - \$80 million settlement
- Derivative Lawsuit Jan. 4, 2019
 - \$29 million settlement
 - The derivative complaint asserted claims against Yahoo's board for breach of fiduciary duty, insider trading, unjust enrichment, and waste.
 - The plaintiffs also asserted claims against Verizon for aiding and abetting.
 - The complaint alleged that Yahoo officials knew about the data breaches long before they were
 disclosed to the public and that instead of disclosing that the data breaches had taken place the
 defendants sought to cover up the breaches.
 - The complaint also alleged that several of the individual defendants sold stock from their personal holding of Yahoo stock after becoming aware of the data breaches and before the breaches were made public.

Yahoo!, Inc.: Individual Class Action – Northern District of California

- \$50 million settlement rejected by Judge Koh in January 2019
 - Nationwide litigation brought on behalf of well over 1 billion users whose personal information was compromised in three massive data breaches.
 - "All plaintiffs have alleged a risk of future identity theft, in addition to loss of value of their personal identification information" - Judge Lucy Koh



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Yahoo!, Inc.: DOJ Prosecution

- On March 15, 2017, DOJ charged two officers of the Russian Federal Security Service and two hackers in connection with the breach in late 2014.
 - Nov. 2017, Karim Baratov, a 23-year-old hacker-for-hire, pled guilty
 - Conspiracy to commit computer fraud and aggravated identity theft.
 - Admitted that, between 2010 and 2017, he hacked into the webmail accounts of more than 11,000 victims, stole and sold the information contained in their email accounts, and provided his customers with ongoing access to those accounts.
 - May 2018, Sentenced to 5 years in prison.

JUSTICE NEWS

Department of Justice

Office of Public Affairs

FOR IMMEDIATE RELEASE

Tuesday, May 29, 2018

International Hacker-For-Hire Who Conspired With and Aided Russian FSB Officers Sentenced to 60 Months in Prison

Russian Officers Tasked Prolific Hacker-for-Hire to Target Webmail Accounts

Karim Baratov, aka Kay, aka Karim Taloverov, aka Karim Akehmet Tokbergenov, 23, was sentenced to five years in prison and ordered to pay a fine, which encompasses all of his remaining assets.

Assistant Attorney General for National Security John C. Demers, Acting U.S. Attorney Alex G. Tse for the Northern District of California, and Special Agent in Charge John F. Bennett of the FBI's San Francisco Field Office made the announcement. The sentence was handed down today by U.S. District Judge the Honorable Vince Chhabria.

"Criminal hackers and the countries that sponsor them make a grave mistake when they target American companies and citizens. We will identify them wherever they are and bring them to justice," said Assistant Attorney General Demers. "I would like to thank Canadian law enforcement authorities for their tremendous assistance in bringing Baratov to justice. We will continue to work with our foreign partners to find and prosecute those who would violate our laws."

"The sentence imposed reflects the seriousness of hacking for hire," said Acting U.S. Attorney Tse. "Hackers such as Baratov ply their trade without regard for the criminal objectives of the people who hire and pay them. These hackers are not minor players; they are a critical tool used by criminals to obtain and exploit personal information illegally. In sentencing Baratov

HEIGHTENED REGULATORY ENFORCEMENT

Regulatory Landscape













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Cybersecurity Landscape Growing Patchwork of Laws



Data Breach Notification Statutes

- First: California Data Breach Notification Statute (2002)
- Now: 54 US Jurisdictions (DC, Puerto Rico, Guam and Virgin Islands)



California Consumer Privacy Act of 2018



Special Focus Statutes:

South Carolina Insurance Data Security Act (H. 4655)



New York Department of Financial Services (NYDFS) Cybersecurity Rule (March 2017)



Federal Trade Commission

 Section 5: "unfair or deceptive acts or practices in or affecting commerce"



Securities and Exchange Commission (SEC) Statement and Guidance on Public Company Cybersecurity Disclosures



Health Insurance Portability and Accountability Act (HIPAA) of 1996



European Union (EU) **General Data Protection Regulation (GDPR)**(May 2018)

State Data Breach Notification Laws

54 US Jurisdictions

- South Dakota (49th) and Alabama (50th) data breach statutes enacted in March 2018
- Also: District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands
- State law depends on residency of customers and location of data
- Notification may be required to customers, government, and credit agencies

- Enforcement and Actions
 - Separate AG enforcement action may be brought
 - Some States provide a private right of action

Government Agency Enforcement Actions



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SEC Guidance on Cybersecurity Disclosures



- Feb. 21, 2018
- Disclosures Based on Reporting Obligations
 - Management's Discussion and Analysis of Financial Condition and Results of Operations
 - Cybersecurity Risk Factors
- Materiality Standard
- Timing of Disclosures
- Board Role
 - Managing cyber risk
- Cybersecurity Policies and Procedures
- Insider Trading Policies and Procedures Related to Cyber Risks and Incidents

Press Release

SEC Adopts Statement and Interpretive Guidance on Public Company Cybersecurity Disclosures

FOR IMMEDIATE RELEASE

2018-22

Washington D.C., Feb. 21, 2018 — Yesterday, the Securities and Exchange Commission voted unanimously to approve a statement and interpretive guidance to assist public companies in preparing disclosures about cybersecurity risks and incidents.

"I believe that providing the Commission's views on these matters will promote clearer and more robust disclosure by companies about cybersecurity risks and incidents, resulting in more complete information being available to investors," said SEC Chairman Jay Clayton. "In particular, I urge public companies to examine their controls and procedures, with not only their securities law disclosure obligations in mind, but also reputational considerations around sales of securities by executives."

The guidance provides the Commission's views about public companies' disclosure obligations under existing law with respect to matters involving cybersecurity risk and incidents. It also addresses the importance of cybersecurity policies and procedures and the application of disclosure controls and procedures, insider trading prohibitions, and Regulation FD and selective

SEC Investigative Report (Oct. 16, 2018)



SEC Investigative Report

- Nine public companies victims of cyber-related frauds
- Issue: Whether these companies violated federal securities laws by failing to have a sufficient system of internal accounting controls.
- Public companies could still be liable for federal securities violations if they do not have sufficient internal accounting controls that specifically take into account these new threats.
- Focus on internal accounting controls that reasonably safeguard company and investor assets from cyberrelated frauds.
 - "devise and maintain a system of internal accounting controls sufficient to provide reasonable assurances that (i) transactions are executed in accordance with management's general or specific authorization' and that "(iii) access to assets is permitted only in accordance with management's general or specific authorization." Section 13(b)(2)(B)(i) and (iii) of the Securities Exchange Act

Press Release

SEC Investigative Report: Public Companies Should Consider Cyber Threats When Implementing Internal Accounting Controls

FOR IMMEDIATE RELEASE 2018-236

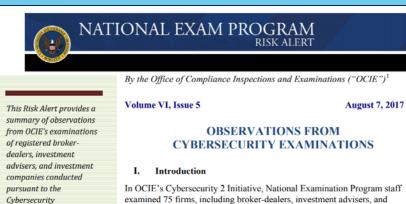
Washington D.C., Oct. 16, 2018 — The Securities and Exchange Commission today issued an investigative report cautioning that public companies should consider cyber threats when implementing internal accounting controls. The report is based on the SEC Enforcement Division's investigations of nine public companies that fell victim to cyber fraud, losing millions of dollars in the process.

The SEC's investigations focused on "business email compromises" (BECs) in which perpetrators posed as company executives or vendors and used emails to dupe company personnel into sending large sums to bank accounts controlled by the perpetrators. The frauds in some instances lasted months and often were detected only after intervention by law enforcement or other third parties. Each of the companies lost at least \$1 million, two lost more than \$30 million, and one lost more than \$45 million. In total, the nine companies wired nearly \$100 million as a result of the frauds, most of which was unrecoverable. No charges were brought against the companies or their personnel.

Cybersecurity Focus during Examinations



- 2017 Risk Report
- Examination of 75 Firms
 - Governance and Risk Assessment
 - Access Rights and Controls
 - Data Loss Prevention
 - Vendor Management
 - Training
 - Incident Response



examined 75 firms, including broker-dealers, investment advisers, and investment companies ("funds") registered with the SEC to assess industry practices and legal and compliance issues associated with cybersecurity preparedness. The Cybersecurity 2 Initiative built upon prior cybersecurity examinations, particularly OCIE's 2014 Cybersecurity 1 Initiative. However, the Cybersecurity 2 Initiative examinations involved more validation and testing of procedures and controls surrounding cybersecurity preparedness than was previously performed.

The examinations focused on the firms' written policies and procedures regarding cybersecurity, including validating and testing that such policies and procedures were implemented and followed. In addition, the staff sought to better understand how firms managed their cybersecurity preparedness by focusing on the following areas: (1) governance and risk assessment; (2) access rights and controls; (3) data loss prevention; (4) vendor management; (5) training; and (6) incident response.

In general, the staff observed increased cybersecurity preparedness since our 2014 Cybersecurity 1
Initiative. However, the staff also observed areas where compliance and oversight could be improved.
This Risk Alert provides a summary of the staff's observations from the Cybersecurity 2 Initiative

Examination Initiative

September 15, 2015.

announced on

Cybersecurity Focus during Examinations



OCIE 2019 Priorities

"Cybersecurity protection is critical to the operation of the financial markets. The impact of a successful cyber-attack may have consequences that extend beyond the firm compromised to other market participants and retail investors, who may not be well informed of these risks and consequences. OCIE is working with firms to identify and manage cybersecurity risks and to encourage market participants to actively and effectively engage in this effort. OCIE will continue to prioritize cybersecurity in each of its five examination programs.

Examinations will focus on, among other things, proper configuration of network storage devices, information security governance generally, and policies and procedures related to retail trading information security.

Specific to investment advisers, OCIE will emphasize cybersecurity practices at investment advisers with multiple branch offices, including those that have recently merged with other investment advisers, and continue to focus on, among other areas, governance and risk assessment, access rights and controls, data loss prevention, vendor management, training, and incident response."

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Rule 30 of Regulation S-P (the "Safeguard Rule")



- Requires registered broker-dealers, investment advisers and investment companies to establish written policies and procedures that are reasonably designed to safeguard customer information.
- The Safeguard Rule requires firms to:
 - address the administrative, technical, and physical safeguards for the protection of nonpublic personal information;
 - insure the security and confidentiality of customer records and information;
 - protect against any anticipated threats or hazards to the security or integrity of customer records and information; and
 - o protect against any unauthorized access to or use of customer records or information that could result in substantial harm or inconvenience to any customer

Regulation S-P, Privacy of Consumer Financial Information. 17 C.F.R. Part 248; SEC Release No. IC-24543 (Jun. 22, 2000)

SEC Cyber Unit



- A specialized unit dedicated to targeting cyber-related misconduct in the US markets.
- The SEC Cyber Unit has focused on alleged misconduct involving:
 - Issuer disclosure
 - Market oversight
 - Intrusions into retail brokerage accounts
 - The submission of false regulatory filings
 - Hacking to obtain material non-public information.

SEC Cyber Unit – Hacking / Insider Trading



- SEC v. Ieremenko, Oleksandr, et al.
 - The Commission filed a district court action alleging that Ieremenko, working with others, hacked into the SEC's EDGAR system and extracted test files containing nonpublic information about upcoming quarterly earnings announcement to use for illegal trading.

- SEC v. Hong, lat, et al.
 - Overseas traders hacked into two U.S. law firms to obtain nonpublic information on which they traded.

SEC Cyber Unit – Protecting Customer Accounts



- SEC v. Joseph P. Willner
 - Day trader hacked into over 100 online customer brokerage accounts to manipulate the price of securities generating at least \$700,000 in illicit profits

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SEC Cyber Unit – Safeguarding Information



- Voya Financial Advisors
 - The Commission filed settled administrative proceedings against an Iowa-based brokerdealer and investment adviser related to its failures in cybersecurity policies and procedures surrounding a cyber intrusion that compromised personal information of thousands of its customers, in violation of Reg S-P and Reg S-ID.

SEC Cyber Unit – Safeguarding Information



- Morgan Stanley Smith Barney LLC
 - Failure to safeguard customer data from cyber-breaches in violation of Reg S-P stemming from a Morgan Stanley employee transferring confidential customer data to a personal server that was eventually hacked.

SEC Cyber Unit – Safeguarding Information



- RT Jones Capital Equities Management, Inc.
 - Failure to safeguard customer data from cyber-breaches in violation of Reg S-P as a result of an investment adviser's storage of sensitive customer information on a third-party hosted web server that was eventually hacked and its failure to adopt written policies and procedures reasonably designed to safeguard such customer information.

R.T. Jones Failed to Adopt Written Policies and Procedures Reasonably Designed to Safeguard Customer Information

- 7. The Safeguards Rule, which the Commission adopted in 2000, requires that every investment adviser registered with the Commission adopt policies and procedures reasonably designed to: (1) insure the security and confidentiality of customer records and information; (2) protect against any anticipated threats or hazards to the security or integrity of customer records and information; and (3) protect against unauthorized access to or use of customer records or information that could result in substantial harm or inconvenience to any customer. The Commission adopted amendments to the Safeguards Rule, effective January 2005, to require that the policies and procedures adopted thereunder be in writing.
- 8. During the relevant period, R.T. Jones maintained client PII on its third party-hosted web server. However, the firm failed to adopt any written policies and procedures reasonably designed to safeguard its clients' PII as required by the Safeguards Rule. R.T. Jones's policies and procedures for protecting its clients' information did not include, for example: conducting periodic risk assessments, employing a firewall to protect the web server containing client PII, encrypting client PII stored on that server, or establishing procedures for responding to a cybersecurity incident. Taken as a whole, R.T. Jones's policies and procedures for protecting customer records and information were not reasonable to safeguard customer information.

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Compliance – EU Considerations

- The EU's General Data Protection Regulation has a strict 72-hour reporting obligation if you collect personal data or behavioral information from someone in an EU country.
 - U.S. companies that have no direct business operations in any one of the 28 member states of the European Union are still subject to the rule if they have a web presence and market their products over the web.
 - The law only applies if the data subjects are in the EU when the data is collected. For EU citizens outside the EU when the data is collected, the GDPR would *not* apply.

MORGAN LEWIS GUIDANCE AND SERVICES

The Best Offense is a Good Defense

Governance

- Board cyber risk management
- Cybersecurity risk oversight and personnel
- Cyber-risk management practices
- Preparedness for cyber incident or attack

Internal Controls and Policies

- "[M]aintain[] comprehensive policies and procedures related to cybersecurity risks and incidents"
 - Tailored to your cyber security needs
 - Identify, Protect, Detect, Respond and Recover
- Review controls to prevent and detect cybercrime (Section 21(a) Report)
- Emerging Reasonable Cybersecurity Standard

Insider Trading

- Insider Trading Policies and Procedures Related to Cyber Risks and Incidents
- "[P]olicies and procedures to prevent trading on the basis of all types of material nonpublic information, including information relating to cybersecurity risks and incidents."

Legal Review

- Insider Trading Programs
- Internal Control Programs

The Best Offense is a Good Defense

Training

- Prepared for cyber risks
- Prevention
- Responding to cyber risks
 - Phishing and Business Email Compromise

Managing Cyber Incident

- Multiple regulators
- Incident Response Plans and Testing
- Attorney-Client Privilege Cyber Investigations

Address Disclosure Issues

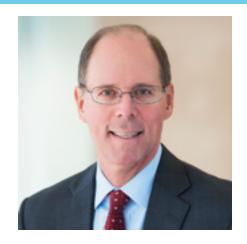
- Timing
- Periodic Reports
 - Form 10-K
 - Management's Discussion and Analysis (MD&A) section
- Materiality Standard
- Cybersecurity Risk Factors

Prepared for All Cyber Incident Phases

- Assist before, during, and after a data breach.
- Data breach-prevention guidance:
 - o Implementing policies and training regarding data breaches, including governance and risk assessments, data loss prevention, and vender management.
- Guidance on managing data breach
 - Conducting confidential, privileged cyber incident investigations.
- Assist on enforcement investigations and actions by federal and state regulators
- Assist on class litigation or other litigation that often results from a data beach.
 - Successfully defended more than two dozen data privacy class actions either winning motions to dismiss or defeating class certifications in lawsuits brought after data breaches or based upon alleged violations of a company's privacy policy.

A&Q

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- Litigation Partner, Privacy and Cybersecurity and Antitrust practices with more than 20 years' experience handling cybersecurity cases and issues.
- Advises clients on mitigating and addressing cyber risks, developing cybersecurity protection plans, responding to a data breach or misappropriation of trade secrets, conducting confidential cybersecurity investigations, responding to regulatory investigations, and coordinating with law enforcement on cybercrime issues.
- Experience handling complex and novel cyber investigations and highprofile cases
 - At DOJ, prosecuted and investigated nearly every type of international and domestic computer intrusion, cybercrime, economic espionage, and criminal intellectual property cases.
 - Served as the National Coordinator for the Computer Hacking and Intellectual Property (CHIP) Program in the DOJ's Criminal Division, and as a cybercrime prosecutor in Silicon Valley, in addition to other DOJ leadership positions.

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Emily Drazan Chapman counsels companies with respect to the federal securities laws, corporate governance matters, and responding to activist shareholder campaigns. Prior to joining Morgan Lewis, Emily was an attorney-adviser with the US Securities and Exchange Commission (SEC) in the Division of Corporation Finance where she reviewed transactional filings under the Securities Act of 1933 and periodic reports and proxy statements under the Securities Exchange Act of 1934.

Emily also served in the SEC's Division of Corporation Finance's Office of Small Business Policy, where she provided interpretative guidance on exemptions to SEC registration and reviewed applications for bad actor waivers.

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