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Cybersecurity Risks and Considerations: Threats and Solutions for the Construction Industry

Minnesota AGC Summit

January 17-18, 2023



Factors of Vulnerability

- Lack of Regulation
 - Industry has not prioritized implementing cybersecurity measures into their business models
 - IBM Ponemon study found that 74% of construction-related organizations are not prepared for a cyberattacks and have not formed or implemented a cybersecurity response plan
 - Being slow to implement cybersecurity measures has made it an attractive target for threat actors
- Construction 4.0
 - Industry has begun to adopt new technologies which has greatly increased exposure to remote cyber attacks
 - Construction industry has increased its usage of AI, IOT and robotics, which require added security controls and privacy risk assessments; they are also vulnerable to cyber attacks and when paired with lack of preparedness, create an attractive target for threat actors

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2



















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Ransomware Ransomware is a type of malicious software, or malware, that encrypts data on a computer making it unusable • A malicious cyber criminal holds the data hostage until the ransom is paid • If the ransom is not paid, the victim's data remains unavailable Cyber criminals may also pressure victims to pay the ransom by threatening to destroy the victim's data or to release it to the public Although cyber criminals use a variety of techniques to infect victims with ransomware, the most common means of infection are email phishing campaigns, Remote Desktop Protocol (RDP) vulnerabilities and software vulnerabilities 0 © 2023 Faegre Drinker Biddle & Reath LLP. All Rights Reserved. Privileged & Confidential 14

Ransomware (con'd)	
 Cyber actors hold systems or data hostage until a ransom is paid for a decryption key Cyber actors also threaten to publish exfiltrated data or sell it on the dark web Increasingly, cyber actors request virtual currency transfers as a ransom payment method In some cases, a decryption key was not provided in return to a paid ransom In other cases, additional ransom was demanded 	
Source: United States Secret Service, Cybercrime Investigations, Preparing for a Cyber Incident – A Guide to Ransomware at https://www.secretservice.gov/sites/default/files/reports/2020- 12/Preparing%20for%20a%20Cyber%20Incident%20- %20A%20Guide%20to%20Ransomware%20v%201.0.pdf	
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RANSOMWARE 2021 TRENDS Victim Response Trends						
 In 2021, th access to 	ne likelihoo its data ha 2020	od that a vi is increase 2021	ictim organization chooses to pay a ransom in orc ed.	ler to regain		
	26%	32%	Paid ransom to get data back			
	56%	57%	Used backups to get data back			
	12%	8%	Used other means to get data back			
	94%	96%	Total that got data back	[Image Source: Sophos]		
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How Does Disruptionware/Ransomware Work? Disruptionware attacks - through the use of ransomware - focus on TWO different П Compute victim networks; they usually attack one or Apps Platforms both networks in a coordinated effort to **Cloud Agents** create maximum effect OSS The "IT" or Informational Technology CPUs networks - traditional internal victim Network infrastructure company network that we are all familiar Connect Protocol Support with; AND Protocol Conversion The "OT" or Operational Technology Routing Switching networks - OT networks support physical rs, Machines, Assets infrastructure, including manufacturing controls, utilities and building management OT systems (i.e., lights, cooling systems and elevators) © 2023 Faegre Drinker Biddle & Reath LLP. All Rights Reserved. Privileged & Confidential 0 24











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Cyber Controls/Data Security Safeguards

- Data Mapping
 - What Data is Collected/Stored?
 - How Sensitive/Critical Is the Data?
 - Safeguards Should Mirror Sensitivity of the Data
- Types of Safeguards
 - Technical/Administrative/Physical
 - Appropriate to the Nature of the Data (Sensitivity/Value)
 - Modify Per The Deltas Shown in the Assessments
 - Encryption of Data A Definite Must

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    Study Recent Incidents
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- What Weaknesses Exploited There?
- What Similarities With Your Systems?

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- Types of Approaches
 - CIS
 - NIST
 - ISO













Legal Requirements -- FederalFTC Act General Businesses Deceptive/Unfair Practices HIPAA/HITECH - Healthcare Providers/Business Associates Security/Privacy Rules SEC - Regulation S-P ("Safeguards Rule") Family Educational Rights and Privacy Act ("FERPA") Fair Credit Reporting Act ("FCRA")





























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Ken Dort is a preeminent resource on mission-critical data security issues and is consulted often for immediate counsel on high-stakes data breaches, as well as for guidance and strategy on the privacy and other legal implications of new technologies. Ken is a recognized adviser to clients around the world on data security and privacy practices and compliance needs arising under federal, state, provincial and international laws and industry standards. He also is a powerful litigator in the courtroom, a deft negotiator with regulators and a valued counselor on software development and integration.

Over his 30-year career, Ken has focused on the ways that law and regulation frame the development of new technology. He is engaged by some of the world's largest companies to stem and mitigate major data breaches and ransomware attacks, including those involving credit card information and employee, customer and patient data. He is called on frequently to create or improve data security and privacy protocols for highly sensitive information, devices and mobile applications.

Ken also works with leading forensic investigators to assess client information systems and security protocols and addresses issues and compliance needs that arise under cyber security laws and standards in the US, EU, Canada, Japan, Australia, Brazil and the Middle East.

Ken is certified (CIPP/US, CIPP/EU and CIPP/C) by the International Association of Privacy Professionals.

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87

