

# LEGAL ISSUES AND A CHECKLIST FOR RESPONDING TO RANSOMWARE ATTACKS

From the forthcoming 2022 updates to Chapter 27  
(Cybersecurity: Information, Network and Data Security)  
*E-Commerce and Internet Law: Legal Treatise with Forms 2d Edition*  
A 5-volume legal treatise by Ian C. Ballon (Thomson/West Publishing, [www.IanBallon.net](http://www.IanBallon.net))

(This excerpt is from the forthcoming update and may contain errors. Please email the author at [ballon@gtlaw.com](mailto:ballon@gtlaw.com) for a complimentary copy of the final published version.)

## GETTING READY FOR CPRA LITIGATION – WHAT YOU NEED TO KNOW AND LESSONS LEARNED FROM CCPA LITIGATION TO DATE

SPRING ACADEMY – PRIVACY + SECURITY FORUM  
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Ian has been listed in Best Lawyers in America consistently every year since 2003 and was named Lawyer of the Year for Information Technology in 2022, 2020, 2019, 2018, 2016 and 2013. He is included in the Lawdragon list of the Top 500 Lawyers in America and has been included on the *Daily Journal's* annual list of the Top 100 Layers in California. In 2022, 2021, 2020, 2019 and 2018 he was recognized as one of the Top 1,000 trademark attorneys in the world for his litigation practice by *World Trademark Review*. In addition, in 2019 he was named one of the top 20 Cybersecurity lawyers in California and in 2018 one of the Top Cybersecurity/Artificial Intelligence lawyers in California by the *Los Angeles and San Francisco Daily Journal*. He received the "Trailblazer" Award, Intellectual Property, 2017 from *The National Law Journal* and he has been recognized as a "Groundbreaker" in *The Recorder's* 2017 Litigation Departments of the Year Awards for winning a series of TCPA cases. In addition, he was the recipient of the California State Bar Intellectual Property Law section's [Vanguard Award for significant contributions to the development of intellectual property law](#). He has also been listed in Legal 500 U.S., The Best Lawyers in America (in the areas of information technology and intellectual property) and Chambers and Partners USA Guide in the areas of privacy and data security and information technology. He has been recognized as one of the Top 75 intellectual property litigators in California by the *Los Angeles and San Francisco Daily Journal* in every year that the list has been published (2009 through 2020). He was also listed in *Variety's* "Legal Impact Report: 50 Game-Changing Attorneys" (2012), was recognized as one of the top 100 lawyers in L.A. by the *Los Angeles Business Journal* and is both a Northern California and Southern California Super Lawyer.

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# **E-COMMERCE & INTERNET LAW**

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**IAN C. BALLON**

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## 27.14 Legal Issues and A Checklist for Responding to Ransomware Attacks

A ransomware attack involves a security breach where an unauthorized third party gains access to a network and encrypts data or systems, to prevent the owner from using its essential systems or data until a “ransom” is paid (typically in cryptocurrency<sup>1</sup>) for a decryption key, often accompanied by the threat that sensitive data stolen from the target company will be released if the ransom is not paid. Unlike a typical cybersecurity breach where a third party gains access to a network and copies information that it seeks to use itself or monetize, a ransomware attack is undertaken to obtain money – a ransom<sup>2</sup> – from the target of the attack (usually in the form of anonymized cryptocurrency), in return for a decryption key to allow the target to regain access to systems or data that had been rendered inaccessible and/or to prevent its public disclosure. A ransomware attacker typically will disclose some data to the victim to prove to the owner that the person or organization making the ransom demand is the same person or organization that encrypted it (since otherwise a company could be doubly victimized by paying the wrong scammer). Target companies typically must react quickly – especially if their ability to conduct business is implicated. Adding to the complexity of responding to a ransomware attack, however, is the fact that paying or even simply facilitating ransomware payments to persons, entities or countries subject to U.S. sanctions or embargoes, may subject a person to civil penalties and

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<sup>1</sup> The increasing frequency in ransomware attacks during the 2010s tracked the rise in acceptance of cryptocurrency, which generally allows for anonymous transactions. In 2021, however, the FBI was able to track disbursement of approximately \$4.4 million in cryptocurrency paid to DarkSide as a ransom for the Colonial Pipeline Co. ransomware attack, and recover cryptocurrency worth approximately \$2.3 million. See David Uberti, *How the FBI Got Colonial Pipeline’s Ransom Money Back*, Wall St. J., June 11, 2021. Cryptocurrencies are held in digital accounts known as wallets, which store the addresses for the virtual locations of cryptocurrency and the private keys needed to access the funds. While wallets are generally private, cryptocurrency transactions are recorded on the Blockchain, a public ledger that is visible to third parties, including law enforcement. See *id.*; see also *supra* § 27.03A (blockchain).

While cryptocurrency exchanges generally are used for lawful purposes, SUEX OTC, S.R.O. was placed on the OFAC sanctions list in September 2021, based on a finding that more than 40% of its known transactions involved illicit actors and that SUEX had facilitated transactions involving at least eight ransomware variants. See U.S. Department of the Treasury, *Treasury Takes Robust Actions to Counter Ransomware*, Sept. 21, 2021.

<sup>2</sup> Ransom demands may vary depending on the size of an enterprise, its ability to pay, and the extent of its insurance coverage. REvil, a Russian ransomware attacker identified by the FBI, reportedly obtained an \$11 million payment for a Memorial Day 2021 attack on global meat supplier JBS and demanded \$70 million in cryptocurrency for a universal decryptor in response to the attack on Kaseya, a software company that provided remote IT services to up to over 800,000 businesses located around the world, which was discovered at the beginning of the July 4 holiday weekend in 2021. See Ben Kochman, *Software Vendor Hack Leads to Ransomware Spree*, Law360, July 6, 2021.

While it is difficult to accurately estimate the average ransomware payment since information on payments is incomplete and payment amounts often depend on individual negotiations and various factors such as the extent of insurance coverage and a company’s need to obtain a decryption tool, Coveware estimated that ransomware payments declined in 2021 as a result of ransomware being treated as a national security concern, fewer companies making ransom payments, and ransomware attackers targeting smaller companies that were less well prepared to withstand an attack. See Coveware Ransomware Recovery Blog, <https://www.coveware.com/blog> (last visited Dec. 26, 2021).

The costs associated with remediating a ransomware attack are not limited to the ransom payment, if any. Whether addressed exclusively through backups or with a decryptor purchased for a ransom, a target company will need to expend significant time and money to restore and harden the security of its software, networks and data following a ransomware attack.

fines imposed the U.S. Treasury Department's Office of Foreign Asset Controls (OFAC).

OFAC sanctions may be imposed on businesses that directly pay or facilitate ransomware payments to on behalf of victims, including, according to OFAC, financial institutions, cyber insurance providers, forensic firms and others,<sup>3</sup> based on strict liability. Pursuant to the International Emergency Economic Powers Act (IEEPA) or the Trading with the Enemy Act (TWEA),<sup>4</sup> U.S. persons are generally prohibited from engaging in transactions, directly or indirectly, with individuals or entities on OFAC's Specially Designated Nationals and Blocked Persons List (SDN List), other blocked persons, and those covered by comprehensive country or region embargoes (such as Cuba, Russian occupied Crimea, Iran, North Korea, and Syria). Additionally, any transaction that causes a violation under IEEPA, including a transaction by a non-U.S. person that causes a U.S. person to violate any IEEPA-based sanctions prohibitions, is also prohibited. U.S. persons, wherever located, are also generally prohibited from facilitating actions of non-U.S. persons that could not be directly performed by U.S. persons due to U.S. sanctions regulations.<sup>5</sup> For this reason, businesses need to act cautiously in evaluating whether to accede to ransom demands.

As ransomware attacks have become more prevalent, some criminal enterprises have reduced ransomware attacks to an organized business, typically run offshore (in Russia and elsewhere), with predictable demands and sought-after terms for resolving an attack.<sup>6</sup> Lawyers

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<sup>3</sup> See U.S. Department of the Treasury, *Updated Advisory on Potential Sanctions Risks for Facilitating Ransomware Payments*, Sept. 21, 2021, available at [https://home.treasury.gov/system/files/126/ofac\\_ransomware\\_advisory.pdf](https://home.treasury.gov/system/files/126/ofac_ransomware_advisory.pdf).

<sup>4</sup> 50 U.S.C.A. §§ 4301–41, 1701–06.

<sup>5</sup> U.S. Department of the Treasury, *Updated Advisory on Potential Sanctions Risks for Facilitating Ransomware Payments*, Sept. 21, 2021, available at [https://home.treasury.gov/system/files/126/ofac\\_ransomware\\_advisory.pdf](https://home.treasury.gov/system/files/126/ofac_ransomware_advisory.pdf); see also 31 C.F.R. part 501, appx. A (OFAC's Economic Sanctions Enforcement Guidelines). Although knowledge or intent are not determining factors (since OFAC sanctions may be imposed based on strict liability), OFAC will consider the existence, nature and adequacy of a sanctions compliance program in determining an appropriate enforcement response to an apparent violation. See *Updated Advisory*, at 4; see also Cybersecurity and Infrastructure Security Agency Guidance, *Ransomware Guide*, Sept. 2020, available at

[https://www.cisa.gov/sites/default/files/publications/CISA\\_MS-ISAC\\_Ransomware%20Guide\\_S508C\\_.pdf](https://www.cisa.gov/sites/default/files/publications/CISA_MS-ISAC_Ransomware%20Guide_S508C_.pdf).

Mitigating factors “could include maintaining offline backups of data, developing incident response plans, instituting cybersecurity training, regularly updating antivirus and anti-malware software, and employing

authentication protocols, among others.” *Updated Advisory*, at 5. “While the resolution of each potential enforcement matter depends on the specific facts and circumstances, OFAC would be more likely to resolve apparent violations involving ransomware attacks with a non-public response (i.e., a No Action Letter or a Cautionary Letter) when the affected party took the mitigating steps described above, particularly reporting the ransomware attack to law enforcement as soon as possible and providing ongoing cooperation.” *Id.*

<sup>6</sup> Some have dubbed this more organized approach of groups such as REvil and DarkSide as *ransomware-as-a-service*, suggesting that like cloud-based SaaS application providers, they offer tools and services used by others. See Gerrit De Vynck, Rachel Lerman, Ellen Nakashima & Chris Alcantara, *The anatomy of a ransomware attack*, Wash. Post, July 9, 2021; Isabelle Khurshudyan & Loveday Morris, *Ransomware's suspected Russian roots point to a long détente between the Kremlin and hackers*, Wash. Post, June 12, 2021; see also Andrew E. Kramer, Michael Schwartz & Anton Troianovski, *Secret Chats Show How Cybergang Became a Ransomware Powerhouse*, N.Y. Times, June 3, 2021 (describing how DarkSide, as the malware developer, charged a user fee to affiliates, who used DarkSide software to break into victim networks, and even provided technical support for hackers, negotiating with targets, processing payments, and developing pressure campaigns, with DarkSide earning fees on a sliding scale ranging from 25% for ransoms under \$500,000 to 10% for ransoms over \$5 million).

who deal regularly with ransomware attacks will recognize particular criminal organizations, which have set practices, follow particular routines, and are known to make particular demands or be willing to negotiate particular settlement terms. At the same time, efforts by the Biden Administration to pressure Russia to shutter ransomware groups based in Russia, beginning in 2021, have reduced somewhat the volume of attacks.<sup>7</sup>

When a ransomware attack occurs, the victim company typically must confront two separate but related concerns: (1) access to critical systems or information, which have become inaccessible, and (2) the compromise of information that has been exfiltrated, which could be further disseminated or publicly disclosed.

Following a ransomware attack, there is often pressure on the target of the attack to act quickly. If a business does not have adequate backup copies of its data or the ability to operate without accessing a compromised system, the business could be shut down for days or even weeks until it regains access to its data, systems or network. A business also may be under pressure to inform customers and vendors if data or systems are inaccessible, and may face regulatory pressure to quickly report a breach if data has been exfiltrated. The ransom demand itself typically establishes a deadline for a response.

Ransomware attackers may also feel pressure to close a transaction quickly before they are unmasked, which may allow room for negotiating the amount of the ransom payment.

Ransomware attackers typically offer the ability to regain access coupled with the threat to release sensitive information to the public if a ransom is not paid. When deals are made, ransomware attackers typically promise to honor their agreements and not further use, disseminate or retain the company's data or information once a ransom is paid. These commitments may be honored by attackers who are concerned about their reputations – and their ability to extract ransoms from other victims – but ransomware attackers ultimately are criminals, whose credibility and trustworthiness may be questionable.

Network and data access may be restored without paying a ransom if the company has adequate back up files and redundant capacity. If a company is unable to access its system or critical information, its business may be interrupted and it may face financial consequences that may a ransom payment appear reasonable. Even if a ransom is paid, there is no guaranty that a business can quickly resume operations. Some attackers are more skilled than others, and the process of encrypting and then decrypting files may not be bug-free. Decryption tools may be only as sophisticated as the criminals who created them. In many cases, it may be easier to prevent an owner from accessing critical systems or information than it is to restore them to working conditions. In addition, ransomware attackers have a greater incentive to engineer a detection-free attack than to create best-in-breed decryption and restoration tools. Victims that pay a ransom for decryption tools also must be careful to determine whether an attacker has created backdoors that would allow for future attacks or otherwise intentionally or

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<sup>7</sup> Shortly after President Biden demanded that Russian President Putin crack down on ransomware attackers based in Russia that targeted American entities, REvil's darknet (.onion) and clearnet (decoder.re) websites went dark. David E. Sanger, *Russia's most aggressive ransomware group disappeared*, N.Y. Times, July 13, 2021; Maggie Miller, *Russian hacking group believed to be behind Kaseya cyber attack goes offline*, The Hill, July 13, 2021.

unintentionally inserted malware or security flaws into a system.

With respect to data, although a victim typically may be deprived of access to information it needs to run its business, it may also face competitive, privacy or regulatory risks as a result of the exposure and possible further dissemination or publication of its information. The threat of publicizing company, employee or consumer information may not present as immediate a threat as being locked out of a system or network but the long term consequences for a company could be more significant.<sup>8</sup> Businesses that reject ransom demands may also face further extortion efforts, including DDoS attacks or efforts to publicize the attack or contact key customers or business partners.

Among other things, a business must evaluate whether it is obligated to provide notice of a security breach to consumers and regulators, as detailed in sections 27.08 and 27.09. Not every ransomware attack will require notification under U.S. law.

Ransomware attacks also may lead to regulatory enforcement by the Federal Trade Commission or State Attorneys' General and to litigation. Customers may seek indemnification or contributions where their businesses were impacted by a ransomware attack on a supplier. The victim itself also may have disputes with its insurer over coverage. In addition, consumers and shareholders may file putative class action suits, as analyzed in section 27.07. For these reasons, it is important for businesses to respond to ransomware attacks in coordination with counsel.<sup>9</sup>

A ransomware attack may also involve the theft of trade secrets which, if exposed, could destroy their value, as analyzed in chapter 10. Even if information does not rise to the level of a trade secret, its disclosure could cause competitive harm, put the victim in breach of third party obligations, or expose customer or employee information.

In responding to a ransomware attack, a company also should evaluate whether and when to involve law enforcement, which may provide useful information about a known attacker but may also discourage cooperation or payment of a ransom.<sup>10</sup>

While some ransomware attacks arise out of software flaws that are exploited by attackers, many have involved more mundane methods to access a network such as using phishing emails to trick employees into opening an attachment or clicking on a link that downloads malware,<sup>11</sup> and thus can be countered by better employee training and vendor or other

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<sup>8</sup> Indeed, Babuk Locker, a ransomware gang, announced in 2021 that it was closing its affiliate program and transitioning to an extortion-only model – stealing data and threatening to release it if payments were not received – after concerns emerged about bugs in its decryptor program which could destroy the victim's files “and, potentially, lead to revenue losses for the gang in the future if victims’ would’ve refused to pay ransoms.” Segiu Gatlan, *Ransomware gang leaks data from Metropolitan Police Department*, Bleeping Computer, May 11, 2021. In addition to D.C. police personnel files, criminal case files and payroll data of the 63-officer Azusa, California police department were leaked online when the department refused to pay a ransom. See Harriet Ryan, *Ransomware hack puts sensitive Azusa Police Department documents online*, L.A. Times, May 31, 2021.

<sup>9</sup> See *supra* § 27.07[5] (preservation of privilege and confidentiality in putative data breach class action litigation).

<sup>10</sup> See generally *infra* chapter 43 (criminal vs. civil remedies and related considerations).

<sup>11</sup> See Gerrit De Vynck, Rachel Lerman, Ellen Nakashima & Chris Alcantara, *The anatomy of a ransomware attack*, Wash. Post, July 9, 2021.

third party supervision. Businesses should also follow the periodic reports issued by the U.S. government's Cybersecurity & Infrastructure Security Agency, which reports on known attacks and the ways that a company may harden its protection against those attacks.<sup>12</sup>

The following checklist identifies ways that a business can mitigate its risk of a ransomware attack and outlines steps to take once an attack has occurred.

### **Planning in Advance**

- Plan in advance to secure your systems and train employees, contractors and vendors to minimize the risk of a ransomware attack
- Adopt, implement, and update an incident response plan (which should anticipate alternative potential attacks)
- Obtain insurance
- Include a recovery strategy for dealing with ransomware attacks in a company's written information security or incident response plan
- Conduct tabletop exercises (including I.T., security, legal and communications professionals) to be ready to respond quickly when an attack occurs, directed by counsel
- Consider privilege issues to minimize the risk that a company's efforts to plan for a ransomware attack become discoverable in litigation if an attack occurs<sup>13</sup>
- Retain offline mirror copies or complete backups of essential systems and data to minimize the risk of business interruption, and the likelihood that your company could be held hostage, in the event of an attack, and make sure that backups are current and operational<sup>14</sup>

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<sup>12</sup> CISA alerts are posted at <https://www.cisa.gov/uscert/ncas/alerts>. See, e.g., CISA, *CISA, FBI, NSA and International Partners Issue Advisory to Mitigate Apache Log4J Vulnerabilities*, available at <https://www.cisa.gov/news/2021/12/22/cisa-fbi-nsa-and-international-partners-issue-advisory-mitigate-apache-log4j> (posted Dec. 22, 2021); CISA, *CISA, FBI, & NSA Release Joint Cybersecurity Advisory on BlackMatter Ransomware*, available at <https://www.cisa.gov/uscert/ncas/current-activity/2021/10/18/cisa-fbi-and-nsa-release-joint-cybersecurity-advisory-blackmatter> (posted Oct. 18, 2021); CISA, *CISA, FBI, & NSA Release Joint Cybersecurity Advisory on Conti Ransomware*, available at <https://www.cisa.gov/uscert/ncas/current-activity/2021/09/22/cisa-fbi-and-nsa-release-joint-cybersecurity-advisory-conti> (posted Sept. 22, 2021); U.K. National Cyber Security Centre, CISA, the U.S. Department of Justice & the NSA, Advisory, *Further TPPs Associated with SVR Cyber Actors*, available at <https://www.ncsc.gov.uk/files/Advisory-further-TTPs-associated-with-SVR-cyber-actors.pdf> (posted May 7, 2021).

Additional resources may be found at <https://www.cisa.gov/stopransomware>.

<sup>13</sup> See *supra* § 27.07[5].

<sup>14</sup> The Cybersecurity & Infrastructure Security Agency recommended in mid-2020 that organizations:

- Maintain regularly updated “gold images” of critical systems in the event they need to be rebuilt. This



- Plan in advance, to the extent possible, which lawyer(s) or consultants to use if negotiations are contemplated
- Implement and continually update industry standard security measures and best practices, as outlined elsewhere in this chapter, including using multi-factor authentication and avoiding or limiting use of accounts with administrative access privileges, where possible
- Train employees and audit vendor security to deter cybersecurity breaches and vulnerability to phishing scams
- Conduct regular vulnerability scans to identify and remediate vulnerabilities and regularly update and patch software, including antivirus and anti-malware software
- Audit contracts to verify if indemnification provisions would protect a company for an attack on a business partner, vendor or other third party, and consider whether to seek additional protection

### **When an Attack Occurs**

- Determine what systems or information have been compromised and/or made inaccessible, isolate or shut down those components that have been compromised, and determine whether adequate backups or access exist to continue essential business functions
- Determine whether the attacker’s access has been cut off or whether it is still able to access and compromise systems and data
- Consider coordination with law enforcement<sup>15</sup>

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entails maintaining image “templates” that include a preconfigured operating system (OS) and associated software applications that can be quickly deployed to rebuild a system, such as a virtual machine or server.

- Retain backup hardware to rebuild systems in the event rebuilding the primary system is not preferred.
  - Hardware that is newer or older than the primary system can present installation or compatibility hurdles when rebuilding from images.
- In addition to system images, applicable source code or executables should be available (stored with backups, escrowed, license agreement to obtain, etc.). It is more efficient to rebuild from system images, but some images will not install on different hardware or platforms correctly; having separate access to needed software will help in these cases.

Cybersecurity & Infrastructure Security Agency and Multi-State Information Sharing & Analysis Center, Ransomware Guide 3 (Sept. 2020), *available at* [https://www.cisa.gov/sites/default/files/publications/CISA\\_MS-ISAC\\_Ransomware%20Guide\\_S508C\\_.pdf](https://www.cisa.gov/sites/default/files/publications/CISA_MS-ISAC_Ransomware%20Guide_S508C_.pdf).

<sup>15</sup> See generally *infra* chapter 43. Among other things, reporting a ransomware attack to the appropriate U.S. government agency or agencies and cooperating with OFAC, law enforcement, and other relevant agencies, may be mitigating factors in the event of an OFAC violation. See U.S. Department of the Treasury, *Updated Advisory on Potential Sanctions Risks for Facilitating Ransomware Payments* 5, Sept. 21, 2021, *available at*

- Review CISA alerts on major ransomware attacks and evaluate if security researchers have available decryption tools since some Ransomware encryption algorithms have been broken
- Determine if there are notification requirements to consumers, state agencies, regulators, or business partners required by law<sup>16</sup> or contract
- Determine if trade secrets have been compromised<sup>17</sup>
- Evaluate if OFAC rules even allow for the payment of a ransom
  - Even if paying a ransom is an option, consider whether restoration from a past backup would be a faster and more secure option
  - If a ransom deal is sought and may be lawfully made, identify the terms and objectives for an agreement, including confidentiality so publicity about a payment does not encourage further attacks, and consider using entities experienced in negotiating with ransomware attackers (such as Arete, Coveware and Kivu<sup>18</sup>)
- Manage communications with employees, customers, vendors and others impacted by the attack
- Harden protection to prevent similar attacks in the future
- Evaluate whether indemnification obligations may be owed to the impacted business, to offset some of the costs

More specific recommendations on rebuilding compromised systems and technical best practices may be found in the Cybersecurity & Infrastructure Security Agency and Multi-State Information Sharing & Analysis Center’s Ransomware Guide.<sup>19</sup>

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[https://home.treasury.gov/system/files/126/ofac\\_ransomware\\_advisory.pdf](https://home.treasury.gov/system/files/126/ofac_ransomware_advisory.pdf). A self-initiated and complete report of a potential violation will also be considered a mitigating factor. *See id.*

<sup>16</sup> *See supra* §§ 27.08, 27.09. Whether there is an obligation to provide notification may depend on whether information was exfiltrated or merely potentially accessible, and applicable state law. *See id.* Notification obligations may arise as quickly as 72 hours for EU consumers, under the GDPR. *See supra* § 26.04.

<sup>17</sup> *See supra* chapter 10.

<sup>18</sup> *See* Ellen Nakashima & Rachel Lerman, *Ransomware is a national security threat and a big business – and it’s wreaking havoc*, Wash. Post, May 15, 2021. Negotiations “typically happen through email or an encrypted chat room on the ‘dark web,’ a portion of the Internet where sites are not accessible through search engines and typically require use of an anonymizing browser, like Tor.” *Id.*; *see also* Rachel Monroe, *How to Negotiate with Ransomware Hackers*, New Yorker, May 31, 2021 (describing the experiences of Kurtis Minder of GroupSense).

<sup>19</sup> Cybersecurity & Infrastructure Security Agency and Multi-State Information Sharing & Analysis Center, *Ransomware Guide* (Sept. 2020), *available at* [https://www.cisa.gov/sites/default/files/publications/CISA\\_MS-ISAC\\_Ransomware%20Guide\\_S508C\\_.pdf](https://www.cisa.gov/sites/default/files/publications/CISA_MS-ISAC_Ransomware%20Guide_S508C_.pdf)

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## ABOUT THE AUTHOR

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Ian Ballon is Co-Chair of Greenberg Traurig LLP's Global Intellectual Property and Technology Practice Group and is a litigator in the firm's Silicon Valley Los Angeles and Washington, DC offices. He defends data privacy, cybersecurity breach, AdTech, TCPA, and other Internet and mobile class action suits and litigates copyright, trademark, patent, trade secret, right of publicity, database, AI and other intellectual property cases, including disputes involving safe harbors and exemptions, platform liability and fair use.



Mr. Ballon was the recipient of the 2010 Vanguard Award from the State Bar of California's Intellectual Property Law Section. He also has been recognized by *The Los Angeles and San Francisco Daily Journal* as one of the Top Intellectual Property litigators in every year the list has been published (2009-2021), Top Cybersecurity and Artificial Intelligence (AI) lawyers, and Top 100 lawyers in California.

Mr. Ballon was named a "Groundbreaker" by *The Recorder* at its 2017 Bay Area Litigation Departments of the Year awards ceremony and was selected as an "Intellectual Property Trailblazer" by the *National Law Journal*.

Mr. Ballon was selected as the Lawyer of the Year for information technology law in the 2022, 2021, 2020, 2019, 2018, 2016 and 2013 editions of *The Best Lawyers in America* and is listed in Legal 500 U.S., Law Dragon and Chambers and Partners USA Guide. He also serves as Executive Director of Stanford University Law School's Center for the Digital Economy.

Mr. Ballon received his B.A. *magna cum laude* from Tufts University, his J.D. *with honors* from George Washington University Law School and an LLM in international and comparative law from Georgetown University Law Center. He also holds the C.I.P.P./U.S. certification from the International Association of Privacy Professionals (IAPP).

Mr. Ballon is also the author of *The Complete CAN-SPAM Act Handbook* (West 2008) and *The Complete State Security Breach Notification Compliance Handbook* (West 2009), published by Thomson West ([www.IanBallon.net](http://www.IanBallon.net)).

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