

Safeguarding Client Data: Attorneys’ Legal and Ethical Duties

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Confidential data in computers and information systems, including those used by attorneys and law firms, faces greater security threats today than ever before. And they continue to grow! They take a variety of forms, ranging from e-mail phishing scams and social engineering attacks to sophisticated technical exploits resulting in long term intrusions into law firm networks. They also include lost or stolen laptops, tablets, smartphones, and USB drives, as well as inside threats - malicious, untrained, inattentive, and even bored personnel.



Source: Shutterstock

These threats are a particular concern to attorneys because of their duties of competence in technology and confidentiality. Attorneys have ethical and common law duties to take competent and reasonable measures to safeguard information relating to clients. They also often have contractual and regulatory duties to protect client information and other types of confidential information.

Breaches have become, so prevalent that there is a new mantra in cybersecurity today – it’s “when, not if” there will be a breach. Robert Mueller, then the FBI Director, put it this way in an address at a major information security conference in 2012:¹

I am convinced that there are only two types of companies: those that have been hacked and those that will be. And even they are converging into one category: companies that have been hacked and will be hacked again.

This is true for attorneys and law firms as well as other businesses and enterprises. Consistent

This paper is periodically updated and used as course materials for programs for the American Bar Association and other legal groups. Condensed versions of it have been published in articles including David G. Ries, “Cybersecurity for Attorneys: Addressing the Legal and Ethical Duties,” *Law Practice Today* (November 2019), David G. Ries, “Safeguarding Client Data: Legal Ethics in a Breach-a-Day World,” *Trusts & Estates* (February 2018) and David G. Ries, “Cybersecurity for Attorneys: Understanding the Ethical Obligations,” *Law Practice Today* (March 2012).

with this threat environment, New York Ethics Opinion 1019 warned attorneys in May 2014:

Cyber-security issues have continued to be a major concern for lawyers, as cyber-criminals have begun to target lawyers to access client information, including trade secrets, business plans and personal data. Lawyers can no longer assume that their document systems are of no interest to cyber-crooks.

ABA Formal Opinion 477R (May 2017) (discussed below), describes the same current threat environment:

At the same time, the term “cybersecurity” has come into existence to encompass the broad range of issues relating to preserving individual privacy from intrusion by nefarious actors throughout the Internet. Cybersecurity recognizes a ... world where law enforcement discusses hacking and data loss in terms of “when,” and not “if.” Law firms are targets for two general reasons: (1) they obtain, store and use highly sensitive information about their clients while at times utilizing safeguards to shield that information that may be inferior to those deployed by the client, and (2) the information in their possession is more likely to be of interest to a hacker and likely less voluminous than that held by the client.

The ABA’s *2019 Legal Technology Survey Report* reports that law firms have been and continue to be victims of data breaches.² The *Survey* reports that about 26% of respondents overall reported that their firms had experienced a security breach at some point. The question is not limited to the past year, it’s “ever.” A breach broadly includes incidents like a lost/stolen computer or smartphone, hacker, break-in, or website exploit. This compares with 23% last year.

Law.com published a series of articles on law firm data breaches in October of 2019. It reported on over 100 breaches, based on its review of state websites and information requests to states about breaches reported to states by law firms under data breach notice laws. The first article started with:³

A Law.com investigation finds that law firms are falling victim to data breaches at an alarming rate, exposing sensitive client and attorney information. These incidents—most unpublicized before now—may just be the tip of the iceberg.

Security threats to lawyers and law firms continue to be substantial, real, and growing – security incidents and data breaches have occurred and are occurring. It is critical for attorneys and law firms to recognize these threats and address them through comprehensive information security programs. **The greatest security threats to attorneys and law firms today are most likely spearphishing, ransomware, business email compromise, and lost and stolen laptops and mobile devices.**

I. Duty to Safeguard

Attorneys have ethical and common law duties to take competent and reasonable measures to safeguard information relating to clients and also often have contractual and regulatory duties to protect confidential information.

Ethics Rules. Several ethics rules⁴ have particular application to protection of client information, including competence (Model Rule 1.1), communication (Model Rule 1.4), confidentiality of

information (Model Rule 1.6), safeguarding property (Model Rule 1.15), and supervision (Model Rules 5.1, 5.2 and 5.3).

Model Rule 1.1: Competence covers the general duty of competence. It provides that “A lawyer shall provide competent representation to a client.” This “requires the legal knowledge, skill, thoroughness and preparation reasonably necessary for the representation.” It includes competence in selecting and using technology, including cybersecurity. It requires attorneys who lack the necessary technical competence for security to learn it or to consult with qualified people who have the requisite expertise.

The ABA Commission on Ethics 20/20 conducted a review of the Model Rules and the U.S. system of lawyer regulation in the context of advances in technology and global legal practice developments. One of its core areas of focus was technology and confidentiality. Its recommendations in this area were adopted by the ABA at its Annual Meeting in August of 2012.

The 2012 amendments include addition of the following underlined language to the Comment to Model Rule 1.1:

[8] To maintain the requisite knowledge and skill, a lawyer should keep abreast of changes in the law and its practice, including the benefits and risks associated with relevant technology...

As of December 2019, 38 states have adopted this addition to the comment to Model Rule 1.1, some with variations from the ABA language.⁵

Model Rule 1.4: Communications also applies to attorneys’ use of technology. It requires appropriate communications with clients “about the means by which the client's objectives are to be accomplished,” including the use of technology. It requires keeping the client informed and, depending on the circumstances, may require obtaining “informed consent.” It requires notice to a client of a compromise of confidential information relating to the client.

Model Rule 1.6: Confidentiality of Information generally defines the duty of confidentiality. It begins as follows:

A lawyer shall not reveal information relating to the representation of a client unless the client gives informed consent, the disclosure is impliedly authorized in order to carry out the representation or the disclosure is permitted by paragraph (b). . .

Rule 1.6 broadly requires protection of “information relating to the representation of a client;” it is not limited to confidential communications and privileged information. Disclosure of covered information generally requires express or implied client consent (in the absence of special circumstances like misconduct by the client).

The 2012 amendments added the following new subsection (underlined) to Model Rule 1.6:

(c) A lawyer shall make reasonable efforts to prevent the inadvertent or unauthorized disclosure of, or unauthorized access to, information relating to the representation of a client.

This requirement covers two areas – inadvertent disclosure and unauthorized access. Inadvertent disclosure includes threats like leaving a briefcase, laptop, or smartphone in a taxi or restaurant, sending a confidential e-mail to the wrong recipient, producing privileged documents or data in litigation, or exposing confidential metadata. Unauthorized access includes threats like hackers, criminals, malware, and insider threats.

The 2012 amendments also include additions to Comment [18] to Rule 1.6, providing that “reasonable efforts” require a risk-based analysis, considering the sensitivity of the information,

“Reasonable efforts” require a risk-based analysis, considering the sensitivity of the information, the likelihood of disclosure if additional safeguards are not employed and consideration of available safeguards.

the likelihood of disclosure if additional safeguards are not employed and consideration of available safeguards. The analysis includes the cost of employing additional safeguards, the difficulty of implementing them, and the extent to which they would adversely affect the lawyer’s ability to use the technology. The amendment also provides

that a client may require the lawyer to implement special security measures not required by the rule or may give informed consent to forego security measures that would otherwise be required by the rule.

Significantly, the Ethics 20/20 Commission noted that these revisions to Model Rules 1.1 and 1.6 make explicit what was already required rather than adding new requirements.

Model Rule 1.15: Safeguarding Property requires attorneys to segregate and protect money and property of clients and third parties that is held by attorneys. Some ethics opinions and articles have applied it to electronic data held by attorneys.

Model Rule 5.1: Responsibilities of Partners, Managers, and Supervisory Lawyers and Model Rule 5.2: Responsibilities of a Subordinate Lawyer include the duties of competence and confidentiality. Model Rule 5.3: Responsibilities Regarding Nonlawyer Assistants was amended in 2012 to expand its scope. “Assistants” was expanded to “Assistance,” extending its coverage to all levels of staff and outsourced services ranging from copying services to outsourced legal services. This requires attorneys to employ reasonable safeguards, like due diligence, contractual requirements, supervision, and monitoring, to ensure that nonlawyers, both inside and outside a law firm, provide services in compliance with an attorney’s ethical duties, including confidentiality.

In June, 2012, while the Ethics 20/20 amendments were under consideration, the *Wall Street Journal* published “Client Secrets at Risk as Hackers Target Law Firms.”⁶ It started with:

Think knowing how to draft a contract, file a motion on time and keep your mouth shut fulfills your lawyerly obligations of competence and confidentiality?

Not these days. Cyberattacks against law firms are on the rise, and that means attorneys who want to protect their clients’ secrets are having to reboot their skills for the digital age.

Ethics Opinions. A number of state ethics opinions, for over a decade, have addressed professional responsibility issues related to security in attorneys’ use of various technologies.

Consistent with the Ethics 20/20 amendments, they generally require competent and reasonable safeguards.

Examples include State Bar of Arizona, Opinion No. 05-04 (July 2005), New Jersey Advisory Committee on Professional Ethics, Opinion 701, “Electronic Storage and Access of Client Files” (April, 2006), State Bar of Arizona, Opinion No. 09-04 (December, 2009): “Confidentiality; Maintaining Client Files; Electronic Storage; Internet” (Formal Opinion of the Committee on the Rules of Professional Conduct); State Bar of California, Standing Committee on Professional Responsibility and Conduct, Formal Opinion No. 2010-179; and New York State Bar Association Ethics Opinion 1019, “Confidentiality; Remote Access to Firm’s Electronic Files,” (August, 2014).

Significantly, California Formal Opinion No. 2010-179 advises attorneys that they must consider security **before** using a particular technology in the course of representing a client. Depending on the circumstances, an attorney may be required to avoid using a particular technology or to advise a client of the risks and seek informed consent if appropriate safeguards cannot be employed.

There are now multiple ethics opinions on attorneys’ use of cloud computing services like online file storage and software as a service (SaaS).⁷ For example, New York Bar Association Committee on Professional Ethics Opinion 842 “Using an outside online storage provider to store client confidential information” (September, 2010), consistent with the general requirements of the ethics opinions above, concludes: “[a] lawyer may use an online data storage system to store and back up client confidential information provided that the lawyer takes reasonable care to ensure that confidentiality is maintained in a manner consistent with the lawyer's obligations under Rule 1.6.”

A recent opinion on safeguarding client data is ABA Formal Opinion 477R, “Securing Communication of Protected Client Information” (May 2017). While focusing on electronic communications, it also explores the general duties to safeguard information relating to clients in light of current threats and the Ethics 20/20 technology amendments to the Model Rules. Its conclusion includes:

Rule 1.1 requires a lawyer to provide competent representation to a client. Comment [8] to Rule 1.1 advises lawyers that to maintain the requisite knowledge and skill for competent representation, a lawyer should keep abreast of the benefits and risks associated with relevant technology. Rule 1.6(c) requires a lawyer to make “reasonable efforts” to prevent the inadvertent or unauthorized disclosure of or access to information relating to the representation.

Most recently, the ABA issued Formal Opinion 483, “Lawyers’ Obligations After an Electronic Data Breach or Cyberattack” (October 17, 2018). The opinion reviews lawyers’ duties of competence, confidentiality and supervision in safeguarding confidential data and in responding to data breaches. It discusses the obligations to monitor for a data breach, stopping a breach and restoring systems, and determining what occurred. It finds that Model Rule 1.15: Safeguarding Property applies to electronic client files as well as paper client files and requires the care required of a professional fiduciary.

The opinion concludes:

Even lawyers who, (i) under Model Rule 1.6(c), make “reasonable efforts to prevent the unauthorized disclosure of, or unauthorized access to, information relating to the representation of a client,” (ii) under Model Rule 1.1, stay abreast of changes in technology, and (iii) under Model Rules 5.1 and 5.3, properly supervise other lawyers and third-party electronic-information storage vendors, may suffer a data breach. When they do, they have a duty to notify clients of the data breach under Model Rule 1.4 in sufficient detail to keep clients “reasonably informed” and with an explanation “to the extent necessary to permit the client to make informed decisions regarding the representation.”

The key professional responsibility requirements from these various opinions on attorneys’ use of technology are competent and reasonable measures to safeguard client data, including an understanding of limitations in attorneys’ knowledge, obtaining appropriate assistance, continuing security awareness, appropriate supervision, and ongoing review as technology, threats, and available safeguards evolve. They also require obtaining clients’ informed consent, in some circumstances, and notifying clients of a breach or compromise. It is important for attorneys to consult the rules, comments, and ethics opinions in the relevant jurisdiction(s).

Ethics Rules – Electronic Communications. E-mail and electronic communications have become everyday communications forms for attorneys and other professionals. They are fast, convenient, and inexpensive, but also present serious risks to confidentiality. It is important for attorneys to understand and address these risks.

The Ethics 2000 revisions to the Model Rules, over 15 years ago, added Comment [17] (now 19]) to Model Rule 1.6. For electronic communications, it requires “reasonable precautions to prevent the information from coming into the hands of unintended recipients.” It provides:

...This duty, however, does not require that the lawyer use special security measures if the method of communication affords a reasonable expectation of privacy. Special circumstances, however, may warrant special precautions. Factors to be considered in determining the reasonableness of the lawyer's expectation of confidentiality include the sensitivity of the information and the extent to which the privacy of the communication is protected by law or by a confidentiality agreement...

This Comment requires attorneys to take “reasonable precautions” to protect the confidentiality of electronic communications. Its language about “special security measures” has often been viewed by attorneys as providing that they never need to use “special security measures” like encryption. While it does state that “special security measures” are not generally required, it contains qualifications and notes that “special circumstances” may warrant “special precautions.” It includes the important qualification - “if the method of communication affords a reasonable expectation of privacy.”

There are, however, questions about whether unencrypted Internet e-mail affords a reasonable expectation of privacy. Respected security professionals for years have compared the security of unencrypted e-mail to postcards or postcards written in pencil.⁸ A June 2014 post by Google on the *Google Official Blog*⁹ and a July 2014 *New York Times* article¹⁰ use the same analogy – comparing the security of unencrypted e-mails to postcards and comparing encryption to envelopes.

**“Emails that are encrypted as they’re routed from sender to receiver are like sealed envelopes, and less vulnerable to snooping—whether by bad actors or through government surveillance—than postcards.”
Google**

Comment [19] to Rule 1.6 also lists “the extent to which the privacy of the communication is protected by law” as a factor to be considered. The federal Electronic Communications Privacy Act¹¹ and similar state laws make unauthorized interception of electronic communications a crime. Some observers have expressed the view that this should be determinative and attorneys should not be required to use encryption. The better view is to treat legal protection as only one of the factors to be considered. As discussed below, some of the newer ethics opinions conclude that encryption may be a reasonable measure that should be used, particularly for highly sensitive information.

Ethics Opinions – Electronic Communications. An ABA ethics opinion in 1999 and several state ethics opinions concluded that special security measures, like encryption, are not generally required for confidential attorney e-mail.¹² However, these opinions, like Comment [19], contain qualifications that limit their general conclusions.

Consistent with the questions raised by security experts about the security of unencrypted e-mail, some ethics opinions express a stronger view that encryption may sometimes be required. For example, New Jersey Opinion 701 (April, 2006), discussed above, notes at the end: “where a document is transmitted to [the attorney] ... by email over the Internet, the lawyer should password a confidential document (as is now possible in all common electronic formats, including PDF), since it is not possible to secure the Internet itself against third party access.”¹³ This was over ten years ago.

California Formal Opinion No. 2010-179, Pennsylvania Formal Opinion 2011-200 and Texas Ethics Opinion 648 (2015) provide that encryption may sometimes be required. A July, 2015 ABA article notes “The potential for unauthorized receipt of electronic data has caused some experts to

“...[P]articularly strong protective measures, like encryption, are warranted in some circumstances.”

revisit the topic and issue [ethics] opinions suggesting that in some circumstances, encryption or other safeguards for certain email communications may be required.”¹⁴

On May 11 of 2017, the ABA Standing Committee on Ethics and Professional Responsibility issued Formal Opinion 477R, “Securing Communication of Protected Client Information.” The Opinion revisits attorneys’ duty to use encryption and other safeguards to protect e-mail and electronic communications in light of evolving threats, developing technology, and available safeguards. It suggests a fact-based analysis and finds that “the use of unencrypted routine email generally remains an acceptable method of lawyer-client communication,” but “particularly strong protective measures, like encryption, are warranted in some circumstances.”

Opinion 477R, consistent with these newer opinions and the article, concludes:

A lawyer generally may transmit information relating to the representation of a client over the internet without violating the Model Rules of Professional Conduct where the lawyer has undertaken reasonable efforts to prevent inadvertent or unauthorized access. However, **a lawyer may be required to take special security precautions to protect against the inadvertent or unauthorized disclosure of client information when required by an agreement with the client or by law, or when the nature of the information requires a higher degree of security.** (Emphasis added.)

The Opinion references the Ethics 20/20 amendments to Comment [18] to Model Rule 1.6 and its discussion of factors to be considered in determining reasonable and competent efforts. It provides general guidance and leaves details of their application to attorneys and law firms, based on a fact-based analysis on a case-by-case basis.

In addition to complying with any applicable ethics and legal requirements, the most prudent approach to the ethical duty of protecting electronic communications is to have an express understanding with clients (preferably in an engagement letter or other writing) about the nature of communications that will be (and will not be) sent electronically and whether or not encryption and other security measures will be utilized. It has now reached the point where all attorneys should have encryption available for use in appropriate circumstances.

Common Law and Contractual Duties. Along with the ethical duties, there are parallel common law duties defined by case law in the various states. The Restatement (3rd) of the Law Governing Lawyers (2000) summarizes this area of the law, including Section 16(2) on competence and diligence, Section 16(3) on complying with obligations concerning client's confidences, and Chapter 5, "Confidential Client Information." Breach of these duties can result in a malpractice action.

There are also increasing instances when lawyers have contractual duties to protect client data, particularly for clients in regulated industries, such as health care and financial services that have regulatory requirements to protect privacy and security.

For example, the Association of Corporate Counsel has adopted *Model Information Protection and Security Controls for Outside Counsel Possessing Company Confidential Information* that companies can use for security requirements for outside counsel.¹⁵

Regulatory Duties. Attorneys and law firms that have specified personal information about their employees, clients, clients' employees or customers, opposing parties and their employees, or even witnesses may also be covered by federal and state laws that variously require reasonable safeguards for covered information and notice in the event of a data breach.¹⁶

II. Complying with the Duties

Understanding all of the applicable duties is the first step, before moving to the challenges of compliance by designing, implementing and maintaining an appropriate risk-based information security program. It should address people, policies and procedures, and technology and be appropriately scaled to the size of the practice and the sensitivity of the information.

Information Security Overview. Information security is a process to protect the confidentiality, integrity, and availability of information. Comprehensive security must address people, policies

The best technical security is likely to fail without adequate attention to people and policies and procedures.

and procedures, and technology. While technology is a critical component of effective security, the other aspects must also be addressed. As explained by Bruce Schneier, a highly-respected security professional, "[i]f you think technology can solve your security problems, then you don't understand the problems and you don't

understand the technology."¹⁷ The best technical security is likely to fail without adequate attention to people and policies and procedures. Many attorneys incorrectly think that security is just for the Information Technology department or consultants. While IT has a critical role, everyone, including management, all attorneys, and all support personnel, must be involved for effective security.

An equally important concept is that security requires training and ongoing attention. It must go beyond a onetime "set it and forget it" approach. A critical component of a law firm security program is constant vigilance and security awareness by all users of technology. As an ABA report aptly put it:¹⁸

Lawyers must commit to understanding the security threats that they face, they must educate themselves about the best practices to address those threats, and **they must be diligent in implementing those practices every single day.**

(Emphasis added.)

Cybersecurity is best viewed as a part of the information governance process, which manages documents and data from creation to final disposition – including security and privacy.¹⁹

Managing data is a critical part of information governance, including security, privacy, and records and information management. Effective management includes a current inventory, classification, safeguarding, managing from creation to final disposition, and secure disposition where appropriate. Effective management requires minimization of data – collection and retention of only what is necessary and secure disposition of data that is no longer required or needed.

At the ABA Annual Meeting in August, 2014, the ABA adopted a resolution on cybersecurity that is consistent with this general approach:²⁰

RESOLVED, That the American Bar Association encourages all private and public sector organizations to develop, implement, and maintain an appropriate cybersecurity program that complies with applicable ethical and legal obligations and is tailored to the nature and scope of the organization and the data and systems to be protected.

This resolution recommends an **appropriate cybersecurity program** for all private and public sector organizations, which includes law firms.

The first step for a security program is assigning responsibility for security. This includes defining who is in charge of security and defining everyone's role, including management, attorneys and support personnel.

Security starts with an inventory of information assets to determine what needs to be protected and then a risk assessment to identify anticipated threats to the information assets. The next step is development, implementation, and maintenance of a comprehensive information security program to employ reasonable physical, administrative, and technical safeguards to protect against identified risks. This is generally the most difficult part of the process. It must address people, policies and procedures, and technology and include assignment of responsibility for security, policies and procedures, controls, training, ongoing security awareness, monitoring for compliance, and periodic review and updating.

A cybersecurity program should cover the core security functions: **identify, protect, detect, respond and recover**. While detection, response, and recovery have always been important parts of security, they have too often taken a back seat to protection. Since security incidents and data breaches are increasingly viewed as sometimes being inevitable, these other functions have taken on increased importance. Gartner, a leading technology consulting firm, has predicted that by 2020, 60% of enterprises' information security budgets will be allocated for rapid detection and response approaches, up from less than 10% in 2014.²¹

The requirement for lawyers is reasonable security, not absolute security. For example, New Jersey Ethics Opinion 701 states “[r]easonable care,’ however, does not mean that the lawyer absolutely and strictly guarantees that the information will be utterly invulnerable against all unauthorized access. Such a guarantee is impossible...” Recognizing this concept, the Ethics 20/20 amendments to the Comment to Model Rule 1.6 include “[t]he unauthorized access to, or the inadvertent or unauthorized disclosure of, confidential information does not constitute a violation of paragraph (c) if the lawyer has made reasonable efforts to prevent the access or disclosure.”

Security involves thorough analysis and often requires balancing and trade-offs to determine what risks and safeguards are reasonable under the circumstances. There is frequently a trade-off between security and usability. Strong security often makes technology very difficult to use, while easy to use technology is frequently insecure. The challenge is striking the correct balance among all of these often-competing factors.

The Ethics 20/20 amendments to Comment 18 to Rule 1.6 provide some high-level guidance. As discussed above, the following factors are applied for determining reasonable and competent safeguards:

Factors to be considered in determining the reasonableness of the lawyer’s efforts include the sensitivity of the information, the likelihood of disclosure if additional safeguards are not employed, the cost of employing additional safeguards, the difficulty of implementing the safeguards, and the extent to which the safeguards adversely affect the lawyer’s ability to represent clients (e.g., by making a device or important piece of software excessively difficult to use).

This is a risk-based approach that is now standard in information security.

A comprehensive security program should be based on a standard or framework. Examples include the National Institute for Standards and Technology (NIST) *Framework for Improving Critical Infrastructure Cybersecurity, Version 1.1*, (April 2018), other more comprehensive NIST standards, like NIST Special Publication 800-53, Revision 4, *Security and Privacy Controls for Federal Information Systems and Organizations* (April 2013) and standards referenced in it (a comprehensive catalog of controls and a process for selection and implementation of them through a risk management process) (designed for government agencies and large organizations), and the International Organization for Standardization's (ISO), ISO/IEC 27000 family of standards, (consensus international standards for comprehensive Information Security Management Systems (ISMS) and elements of them). (See NIST and ISO references in Additional Information below for references to these standards and frameworks.)



Source: NIST

These standards can be a challenge for small and mid-size firms. In October of 2018, the Federal Trade Commission launched a new website, Cybersecurity for Small Business, which includes links to a number of security resources that are tailored to small businesses.²² It is a joint project of the FTC, NIST, the U.S. Small Business Administration, and the U.S. Department of Homeland Security. NIST's *Small Business Information Security: The Fundamentals, NISTR 7621, Revision 1* (November 2016) provides NIST's recommendations for small businesses based on the *Framework*.²³ In March of 2019, NIST launched its Small Business Cybersecurity Corner website.²⁴

The ABA Cybersecurity Legal Task Force serves as a clearinghouse regarding cybersecurity activities, policy proposals, advocacy, publications, and resources, tailored to lawyers and the legal profession. Its website contains a wealth of information and links to resources.²⁵ The Task Force maintains a web page that includes these and additional resources for small law firms and sole practitioners.²⁶ During 2018, The ABA Journal and the Task Force jointly produced a series of articles, "Digital Dangers – Cybersecurity and the law" that provide a variety of information on digital threats to attorneys and ways of addressing them.²⁷

A comprehensive information security program should include:

- Assignment of responsibility for security,**
- An inventory of information assets and data,**
- A risk assessment,**
- Appropriate administrative, technical and physical safeguards to address identified risks,**
- Managing new hires, current employees and departing employees**
- Training,**
- An incident response plan,**
- A backup and disaster recovery program,**
- Managing third-party security risks, and**
- Periodic review and updating.**

Attorneys and law firms will often need assistance in developing, implementing, and maintaining information security programs because they do not have the requisite knowledge and experience. For those who need assistance, it is important to find an IT consultant with knowledge and experience in security or a qualified security consultant. Qualified consultants can provide valuable assistance in this process. An increasing number of law firms are using service providers for assistance with developing and implementing security programs, for third-party review of security, and for services like security scans and penetration testing to identify vulnerabilities. A growing trend is to outsource **part** of the security function by using a managed security service provider for functions such as remote administration of security devices like firewalls, remote updating of security software, and 24 X 7 X 365 remote monitoring of network security.

Cyber Insurance. Law firms are increasingly obtaining cyber insurance to transfer some of the risks to confidentiality, integrity, and availability of data in their computers and information systems. This emerging form of insurance can cover gaps in more traditional forms of insurance, covering areas like restoration of data, incident response costs, and liability for data breaches. Because cyber insurance is an emerging area of coverage and policies differ, it is critical to understand what is and is not covered by policies and how they fit with other insurance. The ABA Center for Professional Responsibility has published *Protecting Against Cyber Threats: A Lawyer's Guide to Choosing a Cyber-Liability Insurance Policy* that provides guidance in this area.²⁸ Cyber insurance is a relatively new and developing form of insurance. It is important to consult with an attorney or broker with current experience in this area.

III. Conclusion

Attorneys have ethical and common law duties to take competent and reasonable measures to safeguard information relating to clients and often have contractual and regulatory duties. These duties provide minimum standards with which attorneys are required to comply. Attorneys

should aim for even stronger safeguards as a matter of sound professional practice and client service. The safeguards should be included in a risk-based, comprehensive security program.

Attorneys have three options for complying with these duties: know the requirements, threats and relevant safeguards, learn them, or get qualified assistance. For most attorneys, it will be a combination of all three.

IV. Additional Information

American Bar Association, Business Law Section, Cyberspace Law Committee, www.americanbar.org/groups/business_law/committees/cyberspace

American Bar Association, Cybersecurity Legal Task Force, www.americanbar.org/groups/cybersecurity

American Bar Association, Cybersecurity Resources, www.americanbar.org/groups/cybersecurity/resources, provides links to cybersecurity materials and publications by various ABA sections, divisions and committees

American Bar Association, Law Practice Division, www.lawpractice.org, including the Legal Technology Resource Center, www.americanbar.org/groups/departments_offices/legal_technology_resources

American Bar Association, *A Playbook for Cyber Events, Second Edition* (American Bar Association 2014)

American Bar Association, Section of Litigation, Privacy and Data Security Committee, www.americanbar.org/groups/litigation/committees/privacy-data-security

American Bar Association, Section of Science and Technology Law, Information Security Committee, www.americanbar.org/groups/science_technology/committees

John T. Bandler, *Cybersecurity for the Home and Office: The Lawyer's Guide to Taking Charge of Your Own Information Security* (American Bar Association 2017)

Center for Internet Security, a leading security organization that publishes consensus-based best security practices like the *CIS Controls* and *Secure Configuration Benchmarks*, www.cisecurity.org

Daniel Garrie and Bill Spernow, *Law Firm Cybersecurity* (American Bar Association 2017)

Federal Trade Commission (FTC), Data Security Resources for Business, www.ftc.gov/tips-advice/business-center/privacy-and-security/data-security, Small Business Cybersecurity, www.ftc.gov/tips-advice/business-center/small-businesses/cybersecurity

ILTA (International Legal Technology Association) LegalSEC, , provides the legal community with guidelines for risk-based information security programs, including publications, the LegalSEC security initiative, peer group discussions, webinars, an annual LegalSEC Summit conference and other live programs; some materials are publicly available while others are available only to members, <http://connect.iltanet.org/resources/legalsec?ssopc=1>

International Organization for Standardization (ISO), publishes the ISO/IEC 27000 family of standards, consensus international standards for comprehensive Information Security

Management Systems (ISMS) and elements of them, www.iso.org/iso/iec-27001-information-security.html

National Institute of Standards and Technology (NIST), <http://csrc.nist.gov/publications>, publishes numerous standards and publications, including the *Framework for Improving Critical Infrastructure Cybersecurity, Version 1.1*, (April 2018) and *Small Business Information Security: The Fundamentals, NISTR 7621, Revision 1* (November 2016) and Small Business Cybersecurity Corner website, <https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.04162018.pdf> <https://nvlpubs.nist.gov/nistpubs/ir/2016/NIST.IR.7621r1.pdf> and www.nist.gov/itl/smallbusinesscyber

SANS Institute, www.sans.org, a leading information research, education, and certification provider, includes resources like the *SANS Reading Room*, the *Critical Security Controls*, *Securing the Human*, and OUCH! (a monthly security newsletter for end users)

Sharon D. Nelson, David G. Ries and John W. Simek, *Encryption Made Simple for Lawyers* (American Bar Association 2015)

Sharon D. Nelson, David G. Ries and John W. Simek, *Locked Down: Practical Information Security for Lawyers, Second Edition* (American Bar Association 2016)

Jill D. Rhodes and Robert S. Litt, *The ABA Cybersecurity Handbook: A Resource for Attorneys, Law Firms, and Business Professionals, Second Edition* (American Bar Association 2017)

The Sedona Conference, *Commentary on Privacy and Information Security: Principles and Guidelines for Lawyers, Law Firms, and Other Legal Service Providers* (November 2015)

US-CERT, part of the U.S. Department of Homeland Security, www.us-cert.gov, includes resources for implementing the NIST Framework (businesses www.us-cert.gov/ccubedvp/getting-started-business) and (small and midsize businesses www.us-cert.gov/ccubedvp/getting-started-smb)

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Dave frequently speaks and writes nationally on legal ethics, technology, and technology law topics. He is a coauthor of *Locked Down: Practical Information Security for Lawyers, Second Ed.* (ABA 2016) and *Encryption Made Simple for Lawyers* (ABA 2015) and a contributing author to *Information Security and Privacy: A Legal, Business and Technical Handbook, Second Edition* (American Bar Association 2011). He served on the ABA TECHSHOW Planning Board from 2005 through 2008 and is a member of the ABA Cybersecurity Legal Task Force, InfraGard's Legal Industry Special Interest Group, and ILTA's LegalSEC.

Endnotes

¹ FBI Director, RSA Cybersecurity Conference (March 1, 2012), <https://archives.fbi.gov/archives/news/speeches/combating-threats-in-the-cyber-world-outsmarting-terrorists-hackers-and-spies>.

² See, John G. Loughnane, ABA TECHREPORT 2019 Cybersecurity, www.americanbar.org/groups/law_practice/publications/techreport/abatechreport2019.

³ Christine Simmons, Xiumei Dong and Ben Hancock, “More Than 100 Law Firms Have Reported Data Breaches. And the Problem Is Getting Worse,” Law.com (October 15, 2019), www.law.com/2019/10/15/more-than-100-law-firms-have-reported-data-breaches-and-the-picture-is-getting-worse. See also, Christine Simmons, Xiumei Dong and Ben Hancock, “Law Firm Cybersecurity: See Which Firms Reported a Data Breach,” Law.com (October 15, 2019), www.law.com/2019/10/15/here-are-law-firms-reporting-data-breaches, Christine Simmons, Xiumei Dong and Ben Hancock, “How Vendor Data Breaches Are Putting Law Firms at Risk,” Law.com (October 17, 2019), www.law.com/2019/10/17/how-vendor-data-breaches-are-putting-law-firms-at-risk and Christine Simmons and Xiumei Dong, “As Hackers Get Smarter, Can Law Firms Keep Up?” Law.com (October 28, 2019), www.law.com/2019/10/28/as-hackers-get-smarter-can-law-firms-keep-up.

⁴ ABA Model Rules of Professional Conduct (2019) (Model Rules).

⁵ LawSites Blog, “Tech Competence,” www.lawsitesblog.com/tech-competence.

⁶ Jennifer Smith, “Client Secrets at Risk as Hackers Target Law Firms,” *Wall Street Journal Law Blog* (June 25, 2012), <https://blogs.wsj.com/law/2012/06/25/dont-click-on-that-link-client-secrets-at-risk-as-hackers-target-law-firms>.

⁷The ABA Legal Technology Resource Center has published a summary with links, “Cloud Ethics Opinions around the U.S.,” available at www.americanbar.org/content/dam/aba/images/legal_technology_resources/CloudEthicsOpinions2019/cloudethicsopinions2019.pdf

⁸ E.g., Bruce Schneier, *E-Mail Security - How to Keep Your Electronic Messages Private*, (John Wiley & Sons, Inc. 1995) p. 3, Bruce Schneier, *Secrets & Lies: Digital Security in a Networked World*, (John Wiley & Sons, Inc. 2000) p. 200, and Larry Rogers, *Email – A Postcard Written in Pencil*, Special Report, (Software Engineering Institute, Carnegie Mellon University 2001).

⁹“Transparency Report: Protecting Emails as They Travel Across the Web,” *Google Official Blog* (June 3, 2014) <http://googleblog.blogspot.com/2014/06/transparency-report-protecting-emails.html>.

¹⁰ Molly Wood, “Easier Ways to Protect Email from Unwanted Prying Eyes,” *New York Times* (July 16, 2014) www.nytimes.com/2014/07/17/technology/personaltech/ways-to-protect-your-email-after-you-send-it.html? r=0.

¹¹ 18 U.S.C. §§ 2510-2522.

¹² For example, ABA Formal Opinion No. 99-413, *Protecting the Confidentiality of Unencrypted E-Mail* (March 10, 1999) (“based upon current technology and law as we are informed of it ...a lawyer sending confidential client information by unencrypted e-mail does not violate Model Rule 1.6(a)...” “...this opinion does not, however, diminish a lawyer's obligation to consider with her client the sensitivity of the communication, the costs of its disclosure, and the relative security of the contemplated medium of communication. Particularly strong protective measures are warranted to guard against the disclosure of highly sensitive matters.”) and District of Columbia Bar Opinion 281, “Transmission of Confidential

Information by Electronic Mail,” (February, 1998), (“In most circumstances, transmission of confidential information by unencrypted electronic mail does not per se violate the confidentiality rules of the legal profession. However, individual circumstances may require greater means of security.”).

¹³ File password protection in some software, like current versions of Microsoft Office, Adobe Acrobat, and WinZip uses encryption to protect security. It is generally easier to use than encryption of e-mail and attachments. However, the protection can be limited by use of weak passwords that are easy to break or “crack.”

¹⁴ Peter Geraghty and Susan Michmerhuizen, “Encryption Connption,” *Eye on Ethics, Your ABA* (July 2015).

¹⁵ www.acc.com/resource-library/model-information-protection-and-security-controls-outside-counsel-possessing-0.

¹⁶ For example, Internal Revenue Code, 26 U.S.C Section 6713, Internal Revenue Procedure 2007-40, Gramm-Leach-Bliley Act, 15. U.S.C. Sections 6801-6809 and National Conference of State Legislatures - State Data Security Laws (www.ncsl.org/research/telecommunications-and-information-technology/data-security-laws.aspx) and State Security Breach Notification Laws (www.ncsl.org/research/telecommunications-and-information-technology/security-breach-notification-laws.aspx).

¹⁷ Bruce Schneier, *Secrets and Lies - Digital Security in a Networked World* (John Wiley & Sons, Inc. 2000) at p. xii.

¹⁸ Joshua Poje, “Security Snapshot: Threats and Opportunities,” ABA TECHREPORT 2013 (ABA Legal Technology Resource Center 2013).

¹⁹ See the Information Governance Reference Model (IGRM), published by EDRM, an organization that publishes resources for e-discovery and information governance (www.edrm.net/frameworks-and-standards/information-governance-reference-model) and ARMA International, Information Governance (www.arma.org/page/Information_Governance).

²⁰ Available at www.americanbar.org/content/dam/aba/images/abanews/2014am_hodres/109.pdf.

²¹ <http://blogs.gartner.com/anton-chuvakin/2014/02/24/new-research-on-dealing-with-advanced-threats>.

²² www.ftc.gov/tips-advice/business-center/small-businesses/cybersecurity.

²³ <https://nvlpubs.nist.gov/nistpubs/ir/2016/NIST.IR.7621r1.pdf>.

²⁴ www.nist.gov/itl/smallbusinesscyber.

²⁵ www.americanbar.org/groups/cybersecurity.

²⁶ www.americanbar.org/groups/cybersecurity/small-solo-resources/aba-cybersecurity-resources-for-small-solo-law-firms.

²⁷ Summaries of the articles and links to them are available at www.abajournal.com/magazine/cyber.

²⁸ Eileen R. Garczynski, *Protecting Against Cyber Threats: A Lawyer’s Guide to Choosing a Cyber-Liability Insurance Policy* (American Bar Association 2016). This guide was published in 2016, so it important to also review more current information.