



HIPAA:

5 Steps to Ensuring Your Risk Assessment Complies with OCR Guidelines

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Abstract

HIPAA and healthcare technology have evolved significantly over the past twenty years. Threats to electronic protected health information (ePHI) security, confidentiality and integrity are more prevalent than ever and second round Office for Civil Rights (OCR) audits are underway. Healthcare internal audit professionals are asking: *How can our organization improve? What might we be missing in our risk assessment?* This article will discuss the latest HIPAA news, forgotten areas of assessment, use of standard tools and a long term assessment approach that can result in cost savings.

Covered entities and their business associates face an ever-evolving risk environment in which they must protect ePHI. Although healthcare security budgets may increase this year, the cost of implementing and maintaining adequate security controls to protect an entity's ePHI far exceeds what is often budgeted. As a result, some ePHI may be under-protected and left vulnerable to data breach. A long-term, consistent and cost-conscious approach to HIPAA compliance is needed.

“The message is clear: if you are responsible for securing patient and proprietary healthcare information, you cannot afford to be unprepared.”

Current state of healthcare

HIPAA's role and importance continues to rise with the value of the data it was created to protect. Healthcare providers are increasingly targeted by cybersecurity attacks, and patient data now commands more than credit card accounts on the black market and dark web. Distributed denial-of-service (DDoS), ransomware, malware, phishing and rogue software are frequently used in cyberattacks launched against hospitals and other healthcare entities. The message is clear: if you are responsible for securing patient and proprietary healthcare information, you cannot afford to be unprepared.

According to the Ponemon Institute's *Sixth Annual Benchmark Study on Privacy and Security of Healthcare Data*, nearly 90 percent of surveyed healthcare organizations suffered a data breach in the past two years. The average cost of a data breach for the surveyed healthcare organizations exceeded \$2.2 million. The projected cost of all data breaches for the healthcare industry surpassed \$6.2 billion.¹

In 2016 the U.S. Department of Health and Human Services (HHS) reported that over 12 million patient health records were breached.² The department's Office for Civil Rights (OCR) levied over \$24 million in fines and a prison sentence was ordered for inappropriately obtaining ePHI.³

Risk analysis: The foundation of an effective HIPAA compliance plan

Risk analysis is one of four required HIPAA implementation specifications that provide instructions to implement the Security Management Process standard. To further clarify risk analysis, the OCR released guidance on the risk analysis requirement in July 2010. The HIPAA Security Rule states that an organization must conduct an accurate and thorough assessment of the potential risks and vulnerabilities to the confidentiality, integrity and availability of ePHI held by the organization.



Additionally, security risk analysis must be performed in order to comply and attest to Meaningful Use of electronic health records as required by the Health Information Technology for Economic and Clinical Health (HITECH) Act of 2009.

With the OCR increasing enforcement efforts with a second year of random audits for both covered entities and their business associates related to HIPAA compliance, risk analysis plays a critical role. Organizations need to comply with

the HIPAA risk analysis requirement if they are to be fiscally responsible and avoid returning Meaningful Use Medicare and Medicaid payments, avoid OCR fines and avert the cost of breach notification efforts.

Risk analysis – Five Steps to getting it right

Today, we find a range of compliance issues and tools used to conduct risk analysis when providing services. Often, HIPAA risk assessment reports do not meet the guidance defined by OCR or support complete review of the security rule controls. From checklists of policies and procedures, penetration test results and IT assessments that barely scratch the surface of the data security safeguards. The wide variance in HIPAA risk analysis scope and reporting suggests that many organizations may not truly understand the HIPAA Security Rule and how to conduct an accurate and thorough assessment of the potential risks and vulnerabilities to the confidentiality, integrity and availability of ePHI held by the organization as defined by the OCR. The five steps below should put you on the right track to be compliant with OCR guidelines.

1. Evaluate your current HIPAA risk assessment

The following components should be included in your current risk assessment efforts:

- > Identification of all assets that create, store, process or transmit ePHI, and the criticality of the data.
- > Identification of threats and vulnerabilities to ePHI assets, the likelihood of occurrence, and the impact to the organization along with a risk rating.
- > Evaluation and documentation of the administrative, physical and technical safeguards for the organization, by department where applicable, and for *each* application with ePHI.
- > Evaluation and documentation of the security measures currently used to safeguard ePHI. Are the controls configured and used properly? What are the vulnerabilities?
- > Evaluation of HIPAA policies and procedures. Are the documents dated, signed, reviewed periodically, and available?

If all of the above items are not included in the scope of your risk assessment, the assessment may not be acceptable with an OCR audit.

2. Select the right HIPAA risk assessment tool

The OCR highlights two tools in its 2010 guidance that provide a framework for risk assessment:

- > Security Risk Assessment Tool (SRA) - developed by the Office of the National Coordinator (ONC) for Healthcare Information Technology. The ONC's SRA user guide walks users through 156 questions with resources to help understand the context of each question. It also allows users to factor in the likelihood and impact to ePHI in the organization. The tool functions on mobile devices as well. It can be downloaded from HealthIT.gov. The tool is geared towards smaller practices but, while a good starting point, it does not take into consideration many of the complexities of larger organizations.
- > Risk Assessment Toolkit - developed by a team of Health Information Management Systems Society (HIMSS) professionals. The HIMSS Risk Assessment guide and data collection matrix contains a PDF user guide, Excel workbooks with NIST risk analysis references, application and hardware inventory workbooks, HIPAA Security Rule standards, implementation specifications, and a defined safeguards workbook. The safeguards are numbered from 1-92 and correspond to the Security Scorecard workbook. The scorecard differentiates numbered safeguard components to be assessed for the organization, by department and within applications that contain ePHI. The HIMSS Risk Assessment toolkit is available at: <http://www.himss.org/himss-security-risk-assessment-guidedata-collection-matrix>.

Selecting a third-party HIPAA risk assessment partner

If your organization lacks the knowledge, experience or requisite training to perform a HIPAA risk assessment, we recommend engaging security specialists who understand healthcare, healthcare technology and the HIPAA Security Rule. However, it is often hard to find all of these skills in one person. Often, it is a team of two or more individuals who together have this knowledge and the right skills to provide the best service.

When assessing resources,

- > Understand how long the vendor has been providing these services.
- > Understand the types of certifications and qualifications the vendor has.
- > Be sure the resources have years of experience providing security, risk and compliance services.
- > Look for qualified professionals with certifications such as: CISA, CPHIMS, CCSFP, CISSP, HCSSP, CIPT, CISM, ISSMP or CCSFP.

- > The tool includes NIST Special Publication 800-30 Revision 1 guidance for completing a risk assessment.

Regardless of the tool chosen to help with the assessment, the most important aspect of the risk analysis is taking an open and honest view of the threats and vulnerabilities to the environment.

3. Determine the risk analysis frequency

One of the most prevalent challenges in complying with the HIPAA Security Rule's risk analysis requirement is determining the frequency or triggering conditions for performing a risk analysis.

The HIPAA Security Rule and 2010 OCR risk analysis guidance state that risk analysis should be "ongoing" to document and update security measures as needed. The security rule states that continuous risk analysis should be completed to identify when updates are needed. OCR guidance notes that the frequency of performance will vary among covered entities. Some covered entities may perform these processes annually or as needed (e.g., bi-annually or tri-annually) depending on circumstances of their environment. Typically, covered entities who are attesting to Meaningful Use and complying with the spirit of the security rule will conduct annual HIPAA risk assessment.

4. Perform the risk assessment: insource or outsource

HIPAA does not specify who should perform the risk assessment. Some organizations insource, some outsource, and some do both – alternating between insourcing and outsourcing. For example, an organization may hire external resources to conduct the HIPAA risk assessment every other year, and on the off year the organization may choose to conduct it internally. Where practical, a separation of duties should exist between the HIPAA risk assessment team and the systems implementers and operations staff. Hiring an outside professional to conduct the risk analysis reduces risk by providing an impartial assessment from someone who was not involved in the implementation of your systems or the development of your policies, procedures and security controls. *See the sidebar for selection tips.*

5. Support cost savings without sacrificing risk assessment quality

How do you contain costs in performing a HIPAA risk analysis? Use an industry standard tool for assessment and stick with it. The industry standard tools also help to define a clear scope of effort. Often organizations can become disconcerted trying to conduct a self-assessment with a previous year's report provided by an outside professional.

A practical approach for risk assessment

Year 1	Year 2	Year 3
<ul style="list-style-type: none"> > Conduct the assessment with an external professional(s) > Define internal resources in your organization and be sure they are educated on use of the assessment toolkit - make it part of the risk assessment service engagement. Consider educating both technology and internal audit resources within your organization. 	<ul style="list-style-type: none"> > Conduct an internal self-assessment using the selected toolkit. Leverage members of your technology team and internal audit resources > Consult your year one external professional, should you require guidance 	<ul style="list-style-type: none"> > Benefit from additional cost savings beyond doing the year two assessment internally by engaging the same external professional(s) for the year three assessment for less cost than in year one - as long as the scope of your environment has remained stable > The toolkit being used will be familiar to everyone involved and previous assessment information will be documented and ready for efficient review and analysis

Final analysis: What could be missed, overlooked or found?

In providing HIPAA analysis and compliance services, we find some areas of noncompliance consistently while other areas can be unique given the size, structure, or how an organization has evolved. Below are several examples of areas you may want to consider when conducting your HIPAA risk analysis.

- > Do you have a documented data classification standard defining what ePHI is? Are all ePHI assets identified? Does this list include legacy data stores?
- > Do you copy un-redacted production patient data to your test or development environments? If so, what access and auditing controls have you put in place to secure and monitor the test and development environments?
- > Are all servers located in a physically secure data center? *Yes, we still find servers under desks in ancillary departments that are often not up-to-date with current patches. Often this occurs in specialty areas where software specific to a department or treatment modality is in use. A server under the desk of an ancillary department is not afforded the physical, technical and environmental protections that your data center can provide.*
- > Does your intranet collaboration site (e.g., SharePoint) contain ePHI? Often during an implementation project documents are stored on a SharePoint site. At go-live screen prints with ePHI are captured with go-live issues documentation. Are screen prints with ePHI stored on your Intranet or in email folders?
- > How are software vendors accessing your systems? Who from the vendor team has access?
- > Have you tested backups of your systems, can you truly restore from backups?
- > What detective controls let you know when student nurses, residents and volunteers with access to your systems are no longer engaged with your facility?
- > Do Information Services staff use shared root and administrator accounts? How often is the local Windows administrator account password changed?
- > Do you have workstations or application software with ePHI that have no session inactivity timeouts set on them? Have you assessed this in all ancillary departments?
- > Is HIPAA security responsibility written into your employee job descriptions?
- > Does anyone outside of information services have administrator rights to ePHI application software?

In conclusion, healthcare organizations must implement strong data security safeguards. Doing so supports compliance with the HIPAA Security Rule, reduces risk and helps ensure the confidentiality, integrity, and availability of the ePHI the organization creates, receives, maintains, or transmits. Conducting internal risk analysis along with annual risk assessments that leverage a professional services provider every other year also reduces risk and maximizes the value of the resources engaged. Finally, leveraging an industry standard toolkit will help your organization be comfortable with conducting self-assessments on alternating years while saving time and money.

Sources List

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