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Issue Brief:

Update: Privacy and security of protected health information

Omnibus Final Rule and stakeholder considerations

The transforming U.S. health care system is producing an immense volume of information, and much rides upon that information's availability, integrity, and confidentiality.

Implementing new care models, health insurance models, and structures/processes such as insurance exchanges, value-based payment systems, population health management, and personalized therapeutics requires meticulous management of vast quantities of personal information. This information is drawn from many disparate sources and delivered electronically to recipients including clinicians, insurers, and patients, generating attendant risk issues. In addition, mobile health, or mHealth, technologies and permeable boundaries among existing and new entrants in the health ecosystem increase the complexity of managing protected health information (PHI) and compound an already challenging issue for industry stakeholders

(Figure 1).

How do privacy and security differ?

Privacy

 The Health Insurance Portability and Accountability Ac (HIPAA) Privacy Rule (2003) states that information in any form – oral, paper, or electronic – that relates to a specific individual is protected health information, or PHI.^{1,2} Under this rule, PHI may be shared with appropriate parties in the course of providing or receiving payment for health care. PHI also may be used to protect the public health and well-being, as in cases of research or legal proceedings.

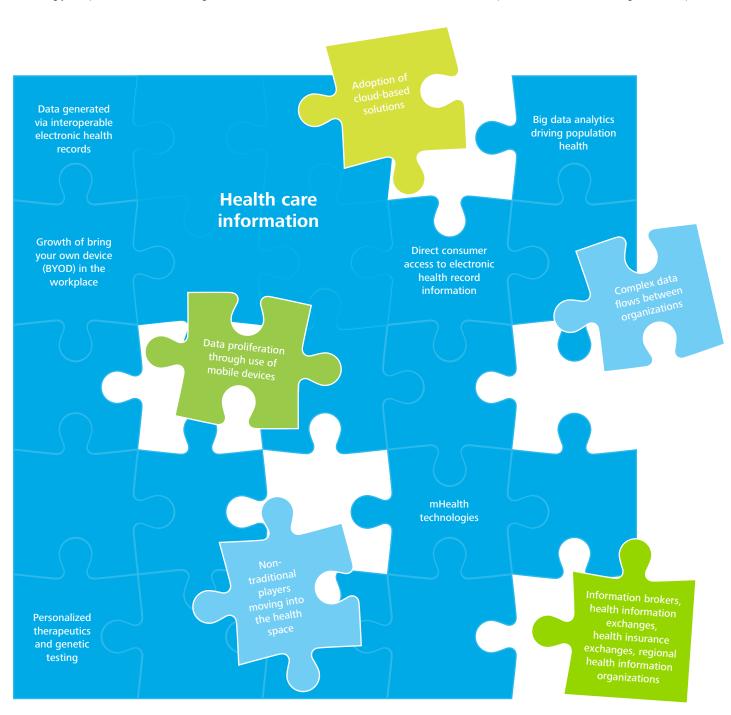
Security

- The Security Rule of HIPAA (2003)^{3,4} operationalizes the Privacy Rule. It requires that covered entities (defined as health plans, health care clearing houses, and health care providers who electronically transmit health care information connected with a transaction) ensure confidentiality, integrity and availability of all electronic PHI; that they anticipate information security threats, both intentional and unintentional; and that they ensure workforce compliance.
- With the HIPAA Omnibus Final Rule (2013), business associates (such as contractors or sub-contractors and defined as anyone who performs on behalf of a covered entity and is involved in the use or disclosure of individually identifiable health information such as claim processing, benefit administration, billing, data analysis, and so on) are now subject to these rules.



Figure 1: Why is privacy and security of PHI an issue?

New and permeable boundaries are bringing many more players into contact with sensitive health information. Health care organizations are facing increasingly complex issues of data management and control, often with insufficient resources (human capital, financial, and technological) and expertise.



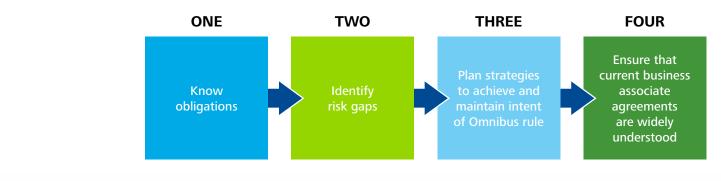
Health care transformation absent a trustworthy foundation is a risky venture. Sensitive personal information is vulnerable to employee error and negligence, as well as medical identity and financial identity theft. Safeguarding PHI is more important than ever.

In 2011, the Deloitte* Center for Health Solutions published the Issue Brief *Privacy and Security in Health Care: A Fresh Look*. This new Issue Brief discusses updates to privacy and security regulations, specifically the Omnibus Final Rule, as well as associated considerations for health care organizations.

The Health Insurance Portability and Accountability Act (HIPAA) Omnibus Final Rule, effective March 26, 2013, greatly expands privacy and security standards, compliance actions, breach notification steps, and penalties. The new regulations allow for fines of more than \$1 million for health record breaches. The permanent HIPAA audit program commences in 2014. The importance of ongoing risk analysis is a central feature of these audits.⁵

In September 2013, the Omnibus Final Rule became enforceable. Industry stakeholders should consider evaluating their HIPAA privacy and security controls as soon as possible (Figure 2).

Figure 2: Organizations should consider evaluating their HIPAA privacy and security controls





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HIPAA Omnibus Final Rule

HHS issued the HIPAA Omnibus Final Rule in January 2013.6 The rule's security and privacy implications lie in its strengthening of regulatory protections for patient information and increasing fines for HIPAA violations. The rule, in draft form since 2010, became enforceable September 23, 2013. Major changes include expanding individuals' rights to electronic copies of their medical records and expanding organizations subject to the Genetic Information Nondisclosure Act.

HIPAA Security and Privacy Audit Pilot Program

In December 2012, OCR completed a pilot program of HIPAA security and privacy audits.⁷ A permanent HIPAA audit program begins in 2014.⁸ Under the audit program, health care organizations can expect to be measured against all changes in the HIPAA Omnibus Final Rule, with special attention paid to risk analysis procedures and safeguards to prevent data breaches. No penalties were issued in the pilot program⁹ but findings from the permanent program will be subject to the increased fines of the Final Rule.¹⁰



Background

In more than ten years following the April 2003 release of the HIPAA Final Rule, The Department of Health and Human Services' (HHS) Office of Civil Rights (OCR) has investigated and resolved over 22,000 violations.¹¹ Since the September 2009 publication of the Breach Notification Rule, more than 800 large breaches (cases affecting more than 500 individuals each) involving the PHI of more than 29 million patients have been reported. 12 Issues found most frequently are impermissible uses and disclosures of protected health information, lack of safeguards of protected health information, and lack of patient access to their protected health information. 13 The most common cause of HIPAA violations has been lack of awareness of a given HIPAA requirement.¹⁴ In addition, the OCR has concluded its pilot HIPAA audit program, and begins a full-scale audit program in 2014.15

HHS has taken a series of steps to strengthen patient privacy protections and to monitor and enforce these protections. The HIPAA Omnibus Final Rule strengthens regulatory protections for patient information, increases penalties for breaches, and emphasizes agreements with business associates. The OCR has conducted a pilot program of HIPAA Security and Privacy Audits, and is using its results to inform the full-scale security and privacy audit program beginning in 2014.¹⁶

Highlights of the HIPAA Omnibus Final Rule security and privacy provisions**

Among the key security and privacy provisions in the Omnibus Final Rule that warrant stakeholder attention are the following four items:

1. Liability for HIPAA violations increases substantially (Figure 3).

- Each individual HIPAA violation is now potentially subject to a fine of up to \$50,000, increased from the earlier limit of \$100.
- The yearly cap for violations of the same type is \$1.5 million, up from \$25,000.¹⁷

^{**} Entities covered by the HIPAA Omnibus Final Rule are obligated to comply with all relevant requirements.

Entities are encouraged to review the entire rule. Links to further resources can be found at the end of this brief.

2. Business associates (BAs) are now subject to HIPAA rules.

- In addition to covered entities, HIPAA now applies to business associates (companies that handle protected health information on behalf of covered entities).
- Previously, BAs were only required to contractually agree to handle PHI securely while conducting transactions. They were exempt from liability for penalties should a breach occur; covered entities had no enforcement rights. The new rule requires that covered entities have specific business agreements with each of their BAs and that BAs bear responsibility for their own data breaches.¹⁸
- In the Final Rule, HHS encourages covered entities to specify in the business agreement exactly how and when the BA will inform the covered entity of the breach.¹⁹

3. All health plans are prohibited from using genetic information for underwriting purposes.

- The Genetic Information Nondisclosure Act (2008) (GINA) originally prohibited four types of health plans from using an individual's genetic information for underwriting purposes, including group health plans, health insurance issuers, HMOs, and supplemental Medicare plans.
- The Omnibus Final Rule expands this prohibition to all health plans.20
- To comply with this rule, health plans will need to implement procedures that clearly limit access of their underwriting functions to patients' genetic information received as part of the claims process.

Further proposed rules underscore seriousness of privacy and security

privacy guidelines. In January 2014 HHS published a proposed rule that would require health plans to certify the security of certain electronic transactions with a third party. Fines for failing to do so would be significant: one dollar per covered life per day of noncompliance, up to \$20 per covered life. Knowingly providing inaccurate or incomplete information would result in fines of \$40 per covered life. This proposed rule further illustrates how serious regulators are about information security in health care, and how

4. Both covered entities and BAs are now required to provide individuals with electronic copies of their medical records upon request.21

- The format of the electronic copy may be agreed upon by the individual and the covered entity.²²
- The new rule shortens the time limit for delivering the electronic copies from a maximum of 90 to 30 days. Some allowances are made for a single 30-day extension.23

Figure 3: HIPAA violation liability

Tier of violation	Each violation	All such violations of identical provision in calendar year
	2013	
Without knowledge or intent	\$100-\$50,000	\$1,500,000
Due to reasonable cause	\$1,000-50,000	\$1,500,000
Willful neglect – corrected	\$10,000-50,000	\$1,500,000
Willful neglect - not corrected	\$50,000	\$1,500,000

Source: Modifications to the HIPAA Privacy, Security, Enforcement, and Breach Notification Rules Under the Health Information Technology for Economic and Clinical Health Act and the Genetic Information Nondiscrimination Act; Other Modifications to the HIPAA Rules, 78 Federal Register 17, 5583

Emerging issue: Medical device security

Medical device security is a growing concern. Recent demonstrations have shown that in some devices settings can be changed remotely and malware uploaded. In addition, devices can be subject to a denial-of-service attack.²⁶

- **Risk of patient harm.** Unauthorized remote access could change a device's settings or cause it to stop working completely.²⁷
- Risk of widespread PHI vulnerability. Health IT networks are at risk through connected medical devices. As some devices can be accessed remotely, hackers may potentially access health IT networks via these devices.²⁸
- Regulations still in development. The FDA has released guidelines on cyber security for medical devices and hospital networks that identify cybersecurity issues manufacturers should consider wher preparing market submissions for medical devices in order to maintain information confidentiality, integrity, and availability.²⁹

HIPAA Security and Privacy Audit Pilot: Few health care organizations have appropriate controls in place

The HIPAA audit program was the first security and privacy audit program by a regulatory body in the health care industry.³⁰ The program was intended to assess HIPAA compliance across covered entities, identify best practices, and identify vulnerabilities. Preliminary results show a large gap between regulatory requirements and the industry's preparation to meet them.

- The pilot audits were conducted in 2011 and 2012 on 115 covered entities, spanning health plans, health care providers, and health care clearing houses. Most audits resulted in negative findings, ^{31,32} indicating that the industry needs to improve its security and privacy programs significantly before the permanent audit program begins.
 - Only 13 organizations, or 11 percent of all participants, passed the audit without any issues.³³
 - 60 percent of audited organizations had not performed a complete and accurate risk assessment.³⁴
 - 30 percent of the audits' 980 negative findings were due to lack of awareness of HIPAA security and privacy requirements.³⁵

Security and privacy practices in the health care industry need to change

Potential economic and reputational damage may arise if organizations lack appropriate HIPAA security and privacy controls:

· Financial penalties

- In 2013, OCR issued resolution agreements for violations that included settlements between \$50,000 and \$1.7 million.³⁶
- These cases involved improper safeguarding of records for anywhere from one to more than 600,000 patients.

· Lost productivity and other costs

- The total annual cost of dealing with data breaches to the health care provider sector alone is estimated at \$7 billion.³⁷
- The average per-record cost of a data breach for a health care organization in 2013 is \$305.³⁸
- The average cost to a health care organization of dealing with data breaches (over the two-year period of 2010-2011) is estimated at \$2.4 million.³⁹
- Failure to comply with the new HIPAA guidance may result in missed financial opportunities through bonuses (e.g., meaningful use bonus payments) and lost patient volumes.

· Brand and reputational loss

- More than 180 large breaches involving more than 6.9 million records were reported in 2013.⁴⁰
- HIPAA Act breaches are made publicly available on the HHS website in a searchable and analyzable database, "Data Breaches Affecting 500 or More Individuals." It is available at: http://www.hhs.gov/ocr/ privacy/hipaa/administrative/breachnotificationrule/ breachtool.html.

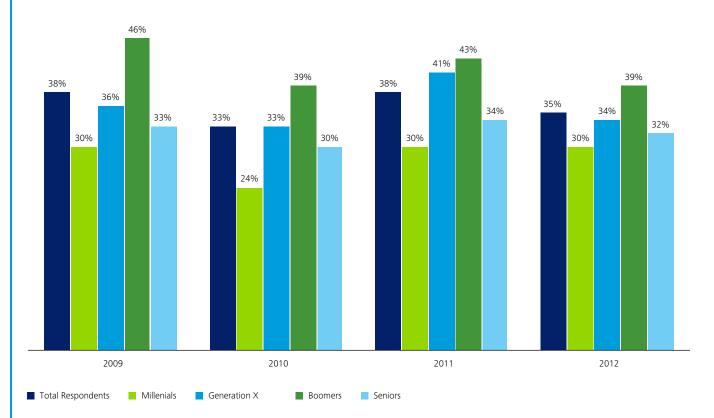
• Loss of consumer goodwill

- Consumers' concerns about the security of their personal information, and greater transparency of performance information, may lead consumers to avoid organizations with a history of breaches. For example, one study reported that 60 percent of patients who were victims of a privacy breach no longer seek care from that provider.⁴¹
- In 2012, the average lifetime value of one lost patient was estimated at \$111,000, up 3.9 percent from 2010.⁴²

Deloitte Survey of U.S. Health Care Consumers: Privacy and security concerns

- Even as threats to the safety and privacy of medical information increase, consumers' concerns about potential risk have remained constant over the past four years: Around 35 percent of consumers are strongly concerned about risk. (See figure below).
- Concern varies by generational group, with those ages 18-30 being more relaxed about security threats to personal information occurring via Internet transmission.

How concerned are you that the privacy and security of your personal health/medical information might be at risk ...if you share information with your doctor through an Internet connection?



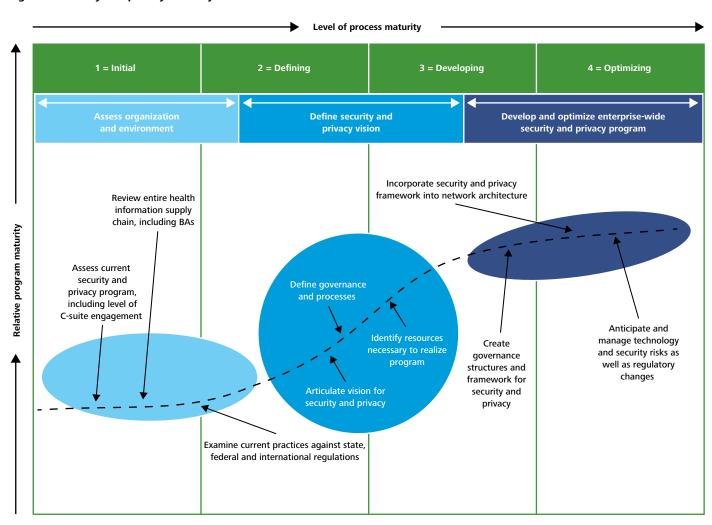
Those reporting 8, 9 or 10 on a 10-point scale where 10 is 'extremely concerned' Deloitte Survey of U.S. Health Care Consumers, 2009-2012

Stakeholder considerations

With the Omnibus Final Rule in place and potential HIPAA audits on the horizon, industry stakeholders – providers, health plans, retail health, bio-pharma, and medical device companies – should consider whether they have a need to promptly **assess** potential capability gaps, **define** their security and privacy vision and needs, and **develop** appropriate remediation programs (Figure 4). One such approach is discussed below.

These steps are integral to the process of becoming secure, vigilant, and resilient in the face of threats to information security.

Figure 4: Security and privacy maturity model



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1. Assess: Organization and environment

- Perform a risk review of the full health information supply chain, covering internal operations as well as outside business associates and subcontractors. The review could cover:
 - Current technologies, applications, networks
 - Processes, policies, governance, PHI access
 - Locations, partners, third parties
 - State, federal, and international (cross-border) regulations and requirements

2. Define: Security and privacy vision and needs

- · Articulate the organizational vision for security and privacy, and capture policies and processes in an organization-wide plan that also includes business associates. Based on the current state and external environment, this plan could:
 - Identify organizational gaps
 - · Outline the organizational vision for security and privacy
 - · Define governance and processes

3. Develop: An enterprise-wide privacy and security program

- If needed, invest in and implement a security and privacy program that includes continuous monitoring and updating. This could:
 - Create organizational governance structures for oversight of security and privacy
 - Incorporate a framework for a security and privacy management architecture
 - Articulate security and privacy policies and standards
 - Proactively define and manage the most critical technological and network risks
 - · Develop identity and access controls and monitoring protocols

As the electronic transmission of PHI among U.S. health care system stakeholders proliferates, safeguarding the security and privacy of that information will become an increasing challenge. Organizations seeking to stay ahead of the regulatory curve should prepare now to address the nearand long-term implications of the Omnibus Final Rule.

Integration of these insights is one of the first steps for health care organizations towards becoming a secure, vigilant and resilient organization that values and protects its patients' PHI.

Useful resources

- Modifications to the HIPAA Privacy, Security, Enforcement, and Breach Notification Rules Under and Clinical Health Act and the Genetic Information HIPAA Rules; Final Rule, 78 Fed. Reg. 5566 (January 01-25/pdf/2013-01073.pdf
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Acknowledgements

We would like to thank Harry Greenspun MD, Technical Adviser, Center for Health Solutions, as well as Larisa Layug, Wendy Gerhardt of Deloitte Services LP, and the many others who contributed to this report.



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