

What to expect from a HIPAA Security Risk Assessment (SRA)

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QPP-SURS

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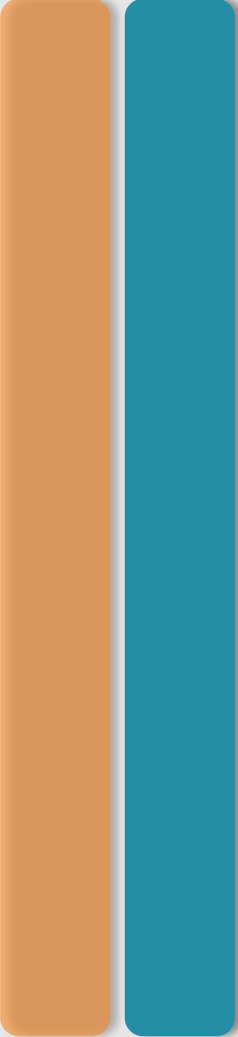


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Objectives



Discuss HIPAA Requirements for a SRA
Define what constitutes a Risk
Identify the elements of a SRA

Origins of Security Risk Assessment



HIPAA Security Rule

Proposed in 1998.....Enacted in 2003

Mandatory in 2006

45 CFR (Code of Federal Regulations) Part 160

Subparts A & C of Part 164 (164.302 – 318)

Health Information Technology for Economic and
Clinical (HITECH) Act

Office for Civil Rights (OCR) responsible for guidance
and enforcement

Definitions

Vulnerability

A flaw or weakness in **system security procedures, design, implementation, or internal controls** that could be exercised (accidentally triggered or intentionally exploited) and result in a security breach or a violation of the system's security policy.

Breach

Impermissible use or disclosure that compromises the security or privacy of protected health information (PHI).

Threat

The potential for a person or thing to exercise (accidentally trigger or intentionally exploit) a specific vulnerability.

Natural (floods, earthquakes, tornadoes)

Human (hacking, unauthorized access)

Environmental (power failure, chemicals, pollution)

Definitions, cont.

Risk

A measure of the extent to which an entity is threatened by a potential circumstance or event, and typically a function of: (i) the adverse impacts that would arise if the circumstance or event occurs; and (ii) the likelihood of occurrence.

(<https://csrc.nist.gov/publications/detail/sp/800-30/rev-1/final>)

In other words

Risk is a function of:

- (1) The likelihood of a given threat triggering or exploiting a vulnerability
- (2) The resulting impact on the organization

Definitions, cont.



Standard

The "What"

Must comply with every "standard"

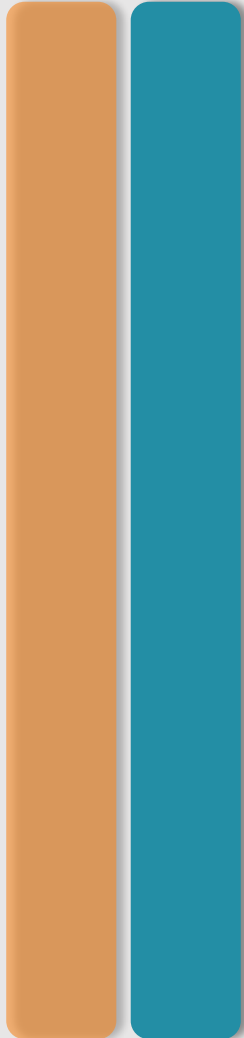
Implementation Specification

The "How"

Required – must be implemented

Addressable – not optional

B O R I N G !!!



Purpose of Security Rule

Establishes national standards to protect Electronic Protected Health Information (EPHI)

Requires Administrative, Physical, Technical Safeguards
- Confidentiality, Integrity, Security

Privacy Rule vs Security Rule

Privacy Rule: all PHI

Security Rule: **ELECTRONIC** PHI

Requires entities to

Evaluate risks and vulnerabilities

Implement reasonable and appropriate security measures

Requirements

Security Management Process (Standard)

164.308(a)(1)(i)

Implement policies and procedures to prevent, detect, contain, and correct security violations.

Four required Implementation Specifications

164.308(a)(1)(ii)(A) (Implementation Specification)

Risk Analysis: conduct an accurate and thorough assessment of the potential risks and vulnerabilities to the confidentiality, integrity, and availability of electronic protected health information held by the covered entity or business associate.

Qualitative vs Quantitative



Qualitative Assessment

Cons: Subjective, value of loss not quantified

Pros: More common, quicker to complete, focus is on understanding the risk

Quantitative Assessment

Cons: Exhaustive, costly, time-consuming

Pros: Identify greatest risk based on financial impact

Qualitative & Quantitative tools

Qualitative

Delphi Technique: risk brainstorming – identify, analyze, evaluate risk on individual and anonymous basis.

Structured What-If Technique (SWIFT): team-based approach – uses “What If” considerations.

<https://www.project-risk-manager.com/blog/qualitative-risk-techniques/>

Quantitative

Financial sector, chemical process industry, explosives industry (Wikipedia)

https://en.wikipedia.org/wiki/Quantitative_risk_assessment_software

CAHIT: hybrid approach - qualitative on the front end, quantitative on back end; quantitative algorithm can be overridden in final report (subjectivity coming into play).

Elements of an SRA Scope

Includes **ALL** potential risks and vulnerabilities to the confidentiality, availability and integrity of **ALL** EPHI that an organization creates, receives, maintains, or transmits.











****REMEMBER****

**EPHI IS more than
medical records**

Billing information Appointment information

Insurance claims Reports Network shares

What am I forgetting?

1	<p>Type : X-ray Scanner Document : ePHI Vendor : Solcom Location : Scanning area Used/Disclosed By : scanning staff Hardware/Service : Scanner/workstation Safeguards in place : Physical facility and user access controls Vulnerabilities : Destruction or closure of the facility, loss of equipment, records and data Threats : Natural and man-made disasters, standard network threats Likelihood : Low Criticality : Low Impact : HIPAA Breach, Fines</p> <p> </p>
2	<p>Type : AS 400 Server Document : ePHI Vendor : IBM Location : server room Used/Disclosed By : all staff Hardware/Service : AS 400 Safeguards in place : Physical facility and user access controls; UPS, HVAC, badge reader lock; server will perform a safe shutdown when temp Vulnerabilities : Destruction or closure of the facility, loss of PHI equipment, records, water based fire suppression system Threats : Natural and man-made disasters, standard network threats, removal of device without removal of ePHI Likelihood : Low Criticality : High Impact : HIPAA Breach, Fines</p> <p> </p>
3	<p>Type : Legacy server Document : ePHI Vendor : IBM Location : basement Used/Disclosed By : IT Hardware/Service : iSeries AS400 Safeguards in place : Physical facility, and user access controls, locked room with key card access, Vulnerabilities : Destruction or closure of the facility, loss of PHI equipment, records and data, data is unencrypted. Threats : Natural and man-made disasters, standard network threats, removal of device without removal of ePHI Likelihood : Low Criticality : Low Impact : HIPAA Breach, Fines</p> <p> </p>
4	<p>Type : Network copiers/fax/scanners/printers Document : potential ePHI Vendor : various Location : throughout the facility Used/Disclosed By : All staff Hardware/Service : Safeguards in place : Administrative safeguards, Physical access controls Vulnerabilities : Destruction or closure of the facility, loss of PHI equipment, records and data; Threats : Natural and man-made disasters; removing from facility without proper removal of ePHI Likelihood : Low Criticality : Low Impact : Security Best Practices</p> <p> </p>
5	<p>Type : Onsite Backups Document : backup copies of ePHI Vendor : IBM Location : fire proof safe within server room Used/Disclosed By : IT Hardware/Service : BRMS/VEEAM tape backups Safeguards in place : Physical facility and user access controls; UPS, HVAC, fire suppression system, kept in fire-proof safe; badge reader lock; Vulnerabilities : Destruction or closure of the facility, loss of PHI equipment, records and data; backups kept on-site are not encrypted Threats : Natural and man-made disasters Likelihood : Low Criticality : Low Impact : HIPAA Breach, Fines</p> <p> </p>

Where to look for EPHI



Elements of an SRA

Threats

Threat

- HIPAA Violation
- Flooding - Internal
- Flooding - External**
- Fire - Internal
- Fire - External
- Severe Thunderstorms
- Tornado
- Snow Storm
- Ice Storm
- Epidemic
- Pandemic
- Explosion
- Gas Leak
- Structural Failure, e.g., Bridge Collapse
- IT - System Software
- IT - Applications

Provide Threat Details

Progress

100%

Previous Save Next

Flooding - External

Remarks:

Likelihood: ⓘ
Low

Impact: ⓘ
Equipment Loss, Damage

Safeguard Implementation

Administrative	Physical	Technical
N/A	No	N/A

Note: ⓘ Location is not in a flood plain

Elements of an SRA Business Associates



What are they?

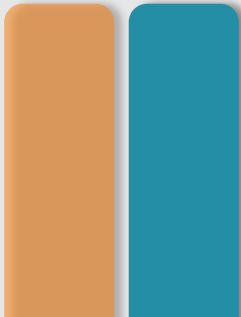
Person or Organization that Creates, Accesses, Transmits, or Stores EPHI on your behalf.

Coders or Coding companies

Backup storage vendors

Anyone not employed by you, working with your EPHI

Elements of an SRA Business Associate Agreements



Business Associates were (are) a focus of OCR during Phase II audits

OCR requested specific information
27 data elements

The below template was developed as a tool to assist you in tracking your business associates agreements.

Business Associate Name	Type of Service Provided	Date of BAA	1st Point of								2nd Point of						
			Contact Title	First Name	Last Name	Address	Address Cont.	City	State	Zip	Phone	Fax	Email	Website	Contact Title	First Name	Last N



NOT downloadable. Email me for a copy! 😊

Does your practice have a process for periodically reviewing its risk analysis policies and procedures and making updates as necessary?




Safeguard Examples

Things To Consider

Threat and Vulnerability

Implement policies and procedures to prevent, detect, contain, and correct security violations. [45 CFR §164.308(a)(1)(i)] Review and update the current risk assessment policy and procedures to adapt your security program to changing needs. [NIST SP 800-53 RA-1]

Yes Partial No

Likelihood : Medium Impact : Security Best Practices 

Current Activities :

 Current Activities

Safeguard Implementation

Administrative

Yes 


Physical

N/A 

Technical

N/A 

Note :

 Notes for answer Files

Elements of an SRA Report



A deliverable of ANY SRA should be a final report.

Presents/summarizes results

Used to guide/prioritize remediation

[FINAL SRA Report](#)

Summary

A Risk Assessment

Designed to aid you in protecting the confidentiality, integrity, and availability of ePHI

May be required for Medicare and Medicaid incentive payment programs (i.e. MIPS, etc.)

Many methods available (consultant, checklist – (ill advised), online tool - www.healthit.gov)

EPHI IS MORE THAN JUST THE EHR!!

The End



THANK YOU

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