# **Indian Health Service** HIPAA Security Risk Assessments

REESE WEBER, MBA, CISSP 2023 IHS PARTNERSHIP CONFERENCE AUGUST 21-24, 2023



## Objectives

Why Perform an Assessment?

Take stock!

Downloading and Installing the Security Risk Assessment (SRA) Tool

Using the SRA tool for assessment

Determining local hazards using the FEMA National Risk Index

SRA Reports

Follow-Up

# Why Perform a Security Risk Assessment?



The Health Insurance Portability and Accountability Act (HIPAA) Security Rule **requires** that covered entities and its business associates conduct a risk assessment of their healthcare organization. A risk assessment helps your organization ensure it is compliant with HIPAA's administrative, physical, and technical safeguards. A risk assessment also helps reveal areas where your organization's protected health information (PHI) could be at risk.

## Outsourcing HIPAA SRA is Unnecessary

YOU know more about your clinic operations than anyone else

Private assessments cost between \$5K and \$25K+

There is no REQUIREMENT for an external party to conduct assessment



# Who should be involved?

The Security Risk Assessment is NOT an exclusively IT task. In fact, most of the assessment covers policies, procedures and planning.

The assessment should include, but is not limited to:

- □ A formally appointed Security Officer
- □ Informatics and/or Clinical Applications Coordinator

□ IT Site Manager

**EHR Site Manager** 

- □ Clinic Manager and/or Medical Director
- CEO or Clinic Director
- Network administrator(s)



#### Expectations

- This will be a significant time investment in this process 4 hour minimum if ALL information and clinic knowledge is handy and accessible
- You get out of it what you put into it
- Try to think outside the box focus on actual clinic operations/workflows versus ideals
- Be prepared to troubleshoot and/or solve on the spot
- Consider ALL systems that MAY house PHI, regardless of whether or not it SHOULD
  - Network Drives
  - Emails
  - Cloud based file systems, local file systems
  - Local workstations, handheld devices
- Ensure the assessment team has access to:
  - Network and security configurations
  - Policies and Procedures for the clinic
  - Vendor and Contractor information
  - Business Associate Agreements and/or contracts

# Take Stock – Inventory your Assets

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#### You can't protect it if you don't know you have it

- Use Crowdstrike, Forescout or some network discovery tool to locate and identify clinic equipment
- Physically walk through facilities to locate and identify equipment
- Query Active Directory or other LDAP software to see domain joined systems
- Interview individual departments to uncover "Shadow IT" products
- Involve facility or maintenance manager to discover facility automation systems (HVAC, solar, security, etc.)
- Use Wi-Fi APs and network equipment to discover IoT

#### Downloading and Installing the SRA Tool

The tool can be downloaded from HealthIT.gov

The downloaded file is the installer for the tool. Double click to run the installer and walk through install process. Once downloaded, a blue "SRA-Tool" icon will appear on your desktop.

Note: Users must have administrative privileges in order to install the SRA Tool. For this reason, you may need help from your IT department or system administrator to install the tool. Admin privileges are not needed to run the tool once it has been installed.

The tool runs on Windows, 7, 8, 10, and 11. All information entered into the tool is contained locally. No information is transmitted to DHHS, ONC or OCR.

#### HealthIT.gev

#### TOPICS V BLOG NEWS V DATA

Privacy, Security, and HIPAA > Security Risk Assessment Tool HealthIT.gov > Topics

#### Security Risk Assessment Tool Privacy, Security, and HIPAA

#### Educational Videos

Security Risk Assessment Tool 🛛 🗡 Security Risk Assessment

Videos Top 10 Myths of Security **Risk Analysis** 

HIPAA Basics

Privacy & Security Resources & > Tools

Model Privacy Notice (MPN)

How APIs in Health Care can Support Access to Health Information: Learning Module

Patient Consent and Interoperability

Your Mobile Device and Health Information Privacy and Security

#### What is the Security Risk Assessment Tool (SRA Tool)?

The Office of the National Coordinator for Health Information Technology (ONC), in collaboration with the HHS Office for Civil Rights (OCR), developed a downloadable Security Risk Assessment (SRA) Tool to help guide you through the process. The tool is designed to help healthcare providers conduct a security risk assessment as required by the HIPAA Security Rule and the Centers for Medicare and Medicaid Service (CMS) Electronic Health Record (EHR) Incentive Program. The target audience of this tool is medium and small providers; thus, use of this tool may not be appropriate for larger organizations.

The Health Insurance Portability and Accountability Act (HIPAA) Security Rule requires that covered

entities and its business associates conduct a risk assessment of their healthcare organization. A risk

assessment helps your organization ensure it is compliant with HIPAA's administrative, physical, and

technical safeguards. A risk assessment also helps reveal areas where your organization's protected

#### SRA Tool for Windows

The SRA Tool is a desktop application that walks users through the security risk assessment process using a simple, wizard-based approach. Users are guided through multiple-choice questions, threat and vulnerability assessments, and asset and vendor management, References and additional guidance are given along the way. Reports are available to save and print after the assessment is completed.

This application can be installed on computers running 64-bit versions of Microsoft Windows 7/8/10/11. All information entered into the tool is stored locally on the user's computer. HHS does not collect, view, store, or transmit any information entered into the SRA Tool.

Download Version 3.3 of the SRA Tool for Windows [.msi - 70.3 MB]

health information (PHI) could be at risk. To learn more about the assessment process and how it benefits your organization, visit the Office for Civil Rights' official guidance.

### Security Risk Assessment (SRA) Tool



#### Clinic and Practice Information

Security Risk Assess	ment					_		×
	Practice Information							
Home Practice Info Assets Vendors	Add your <u>practice infor</u> Consider all contexts of you you have more than one I	rmation to your security risk assessn our organization's operations, such as va location.	nent. rious location(s), dep	oartment(s), people,	and more. Select	'+ another loca	ition' if	
Documents Assessment	Practice Name	Indian Health Organization						
Reports	Address City, State, Zip	7222 Main Avenue Riverside	CA	•	92760			
Save As ➔ Logout	Phone, Fax	989-232-3666		(xxx)-xxx-xxxx				
	Title/Role	Reese Weber Information Security Officer						
	Phone	989-725-8999						
	Email	keese.weber@inO.com			Delete S	ave this locati	ion	
						Add another l	ocation	
			🗙 Back Next 🗲					

The Practice Information screen captures some basic information from the practice(s) involved with the assessment.

This information will be included in the printable PDF report available once the assessment is completed.

#### Assets – IT Equipment



The Assets screen captures a list of IT assets within a practice – computers, diagnostic/imaging equipment, network infrastructure, etc...

Assets can be entered one at a time, or imported in a list from a CSV file by using the Asset Template.

## Assets – IT Equipment

Security Risk Assessr	Practice Assets				<b>I</b>	-		Available Fields
Home	Enter your organizati	on's <u>assets.</u>			pract	ice assessmen		• Asset Type
E Assets Vendors	Consider all contexts of Want to <u>add more than</u>	assets, such as your orga Add Asset	nization's location(s), depa	rtment(s), equipment, people >	e, materials, and K	more.		<ul> <li>Asset Status – active, inactive</li> </ul>
Documents		Asset Type Servers	Asset Status Active [In-use and	ePHI Access Receives and tran				<ul> <li>ePHI Access – does it access PHI?</li> </ul>
Reports	e	Disposal Status Not Disposed	Disposal Date	Asset Encryption Full disk encryption	t Template			• Disposal Status – if inactive, has it been properly
🖺 Save As 🕣 Logout	e	Asset Assignment	Asset Location	Asset ID 42-83839	Template			Disposal Data data assot was disposed
	Total Assets [0]	Comments	tabar 2024	42-03033		Ma	mage Multiple	• Disposal Date – date asset was disposed
	Risk N	under warranty until o Oc			Encryption	Assignment	Location	• Asset Encryption – type of encryption protection of data
			No conten	Add	ĺ			<ul> <li>Asset Assignment – who is responsible for this asset?</li> </ul>
								<ul> <li>Asset Location – physical location of the asset.</li> </ul>
			<b>&lt;</b> Back	Next <b>&gt;</b>				<ul> <li>Asset ID – asset tag or internal identifier</li> </ul>
								• Comments

#### Assessment

The Assessment section contains 7 sections with multiple -choice questions and branching logic.

The Education panel provides guidance related to each response given.

The Reference panel links each question to a HIPAA Security Rule citation.

Progress indicators are provided in the navigation panel as sections are completed.



#### Vulnerabilities and Threat Ratings

SRA	Section 5: Security and the Practice	₽	pro	the assessment	ary				
Home Practice Info Assessment	Select the <u>vul</u>	nerabilities tha	at apply to your practice from the list below.						
Section 1 🗸 Section 2 🗸 Section 3 🗸 Section 4 🗸 Section 5 Section 6 Section 7	Inadequate facility access management proc Inadequate physical protection for informati Undocumented location of equipment or ass Inadequate access controls for business asso Inadequate secret procedures for process undertable	edures where infor on systems sets solate and vendor a	rmation systems reside access						
Reports Cave Cave Cave Cave Cave Cave Cave Cave	Inadequate procedures for proper workstatic     Failure to ensure user accounts are configure	ed with appropriate sed with appropriate sea sea for Home Practice Info for Home for Home	e permissions Section 5: Security and the Practice Please rate the likelihood an	b d impact on your practice of	sach po	tential ;	practice threat.	accessor	ent
		Section 1 V Section 2 V Section 3 V Section 4 V Section 5 Section 6 Section 7	Inadequate facility access management procedures where in Unauthorized access to facility occurs undetected Workforce and visitors access ortifical or sensitive business areas without authorization	Mormation systems reside	Likelho	0	0	Impact O	
		<b>삶 Reports</b> 은 Save 은 Save As 단 Logout	Increased response time to respond to facility security incidents Inconsistency in granting access to facilities Inconsistency in granting access to facilities Includence in granting access to facilities associate and wend Advertary leverages third party access to gain access to	Cr access	Likelho	00	0	C) Impact	0 0
			facility and devices Adversary leverages third party access to extiticate data or assets	C Back Next >	0	0	0	0	•

The Vulnerability Selection and Threat Rating section is presented after each section of multiple-choice questions.

Users are asked to select from a list of vulnerabilities that may be applicable to their practice.

Each vulnerability comes with a list of related threats that must be rated for the **likelihood** they may occur and the **impact** they would have should they occur.

# Don't Overstate your Security Posture!

- Keep in mind the CFR requires initial and periodic ASSESSMENT – not a perfect score!
  - By honestly assessing your organization's posture, you create an ACTUAL opportunity for improvement
  - During an OCR Audit- they are looking for *improvement* between assessments
  - Overstating the cyber abilities *reduces* your organization's ability to show improvement
  - There is NO SUCH THING as a perfectly secure environment



#### Determining Natural Risks to your Clinic



FEMA's National Risk Index (NRI) is an easy-to-use, interactive tool that shows which communities are most at risk to natural hazards. It includes data about the expected annual losses to individual natural hazards, social vulnerability and community resilience, available at county and Census tract levels.

https://hazards.fema.gov/nri/map

#### What's the Risk Index for YOUR county?



#### Sacramento County

California

Risk Index

#### Risk Index is Relatively High

Score	97.65
National Percentile 97.65	
Percentile Within California 65.50	
0	100

The Risk Index rating is **Relatively High** for **Sacramento County, CA** when compared to the rest of the U.S.

#### **Risk Index Overview**

Compared to the rest of the U.S., **Sacramento County, CA's** Risk Index components are:

Expected Annual Loss	Relatively High
Social Vulnerability	Relatively High
Community Resilience	<b>Relatively High</b>

#### Hazard Type Risk Ratings

Compared to the rest of the U.S., **Sacramento County, CA's** risk to each hazard type is:

Avalanche	Not Applicable
Coastal Flooding	No Rating
	Score <b>0.0</b>
Cold Wave	No Rating
	Score <b>0.0</b>
Drought*	Very High
	Score <b>99.7</b>
	*Note: Risk Index is based on Agricultural (crop only) impacts
Earthquake	Relatively High
	Score <b>99.0</b>
Hail	Score 99.0 Very Low
Hail	Score 99.0 Very Low Score 17.8
Hail Heat Wave	Score 99.0 Very Low Score 17.8 Relatively High
Hail Heat Wave	Score 99.0 Very Low Score 17.8 Relatively High Score 99.2
Hail Heat Wave Hurricane	Score 99.0 Very Low Score 17.8 Relatively High Score 99.2 Not Applicable

Landslide	<b>Relatively Moderate</b>
	Score <b>91.3</b>
Lightning	Very Low
	Score <b>27.0</b>
Riverine Flooding	<b>Relatively Moderate</b>
	Score <b>75.4</b>
Strong Wind	Very Low
	Score <b>1.7</b>
Tornado	Relatively Low
	Score <b>69.6</b>
Tsunami	No Rating
	Score <b>0.0</b>
Volcanic Activity	Not Applicable
Wildfire	Relatively Moderate
	Score <b>93.0</b>
Winter Weather	Very Low
	Score 11.5

### Assessment Summary Report

After all sections are complete, the Summary section becomes available.

The Summary Report is high level summary of your risk assessment.

Risk Score –shows the number of questions sorted into Areas for Review divided by the total questions the user answered.

Areas for Review –shows the total number of questions answered sorted into Areas for Review.

Vulnerabilities –shows the total number of vulnerabilities selected as applicable to the practice or organization.

Each assessment section's Risk Score is shown as a percentage.



### Risk Report



The Risk Report identifies all areas of risk collected across your entire assessment.

Each vulnerability selected is shown here along with each response that fell into the category Areas for Review.

Risk Breakdown – shows a sum of threat ratings in each risk level (Low, Medium, High, and Critical).

Risk Assessment Rating Key – shows how likelihood and impact ratings combined create the risk level.

# Detailed Report

The Detailed Report is a collection of all data captured throughout the entire assessment.

Each question and response, each threat and vulnerability rating, all of the Practice Information, Assets, and Vendor information is shown in the Detailed Report. There is also an audit log of each contributing user with a date/time stamp.

Export a PDF or Excel copy of the report using the Export Options button.

	Detailed Report			₽		practice	assessment summ	ary
Home Practice Info	Click each section to expa	and and review mo	re details.				Export Option	15
Assessment Assessment Reports Risk Report Jagged Report Save Save Save As Logout	Failure to meet minimum Correcti OCR. FT Damage Failure t reimbur	icture threat(s) suc elephone outages, r activation), unstal n regulatory requir ve enforcement fro C, CMS, State or Lo e to public reputati to attain incentives sement	h as building/road hazard water leakage (pipes, ro ble building conditions ements and security stan om regulatory agencies (e ocal jurisdictions) on due to breach or optimize value-based	ds, of, a <u>dards</u> e.g. HHS,			Low Low Medium Low	
	Question	Answer	Education	References	Compliance Guidance/Rule	Username	Low Date/Time	
	Q1. Has your practice completed a security risk assessment (SRA) before?	Yes.	Continuing to complete security risk assessments will help safeguard the confidentiality, integrity, and availability of ePHI. Consider scheduling a vulnerability scan to improve your risk	HIPAA: \$164.308(a)(1)(ii)(A) NIST CSF: ID.RA, ID.AM, ID.BE, PR.DS, PR. IP, RS.MI HICP: TV1, Practice # 7, 10	Required	Ryan	Fri Mar 04 12:57:50 EST 2022	~
				K Back Next >				

# Follow-up Actions

Using the SRA Risk Reports, begin addressing and taking action on findings.

Prioritize activities using the Low, Medium, High and Critical designations.

Create and/or update Policies and Procedures to address specific findings

Schedule follow up meetings to track progress

Consider implementing a permanent, multi-disciplinary committee responsible for reviewing and updating future assessments

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#### Questions?

Reese Weber, MBA, CISSP

Chief Information Security Officer and Privacy Coordinator

Indian Health Service, California Area

916-930-3981 x 307

Theresa.weber@ihs.gov

https://www.linkedin.com/in/reese-weber-mba-cissp-6085203b



CMS Guidance for Risk Analysis - <u>https://www.cms.gov/regulations-and-guidance/legislation/ehrincentiveprograms/downloads/2016\_securityriskanalysis.pdf</u>

FEMA National Risk Index - <u>https://hazards.fema.gov/nri/</u>

HHS HIPAA Security Risk Assessment Tool https://www.healthit.gov/topic/privacy-security-and-hipaa/security-riskassessment-tool

HHS / HealthIT.GOV SRA User Guide https://www.healthit.gov/sites/default/files/page/2019-10/SRATv3.1User%20Guide.pdf

HHS Summer 2020 Cybersecurity Newsletter -<u>https://www.hhs.gov/hipaa/for-</u> professionals/security/guidance/cybersecurity-newsletter-summer-2020/index.html#footnote8\_bdqzath



