



Privacy Framework 1.0 at a Glance



Open, transparent development process



Voluntary, flexible, publicly available



Law/technology/sector neutral



Version 1.0 released January 2020

Value Proposition

Privacy Framework supports:



Building customer trust



Fulfilling current compliance obligations



Facilitating communication

Relationship Between Cybersecurity and Privacy Risk

Cybersecurity Risks

associated with cybersecurity incidents arising from loss of confidentiality, integrity, or availability

cyber security-related privacy events

Privacy Risks

associated with privacy events arising from data processing

Data: A representation of information, including digital and non-digital formats

Privacy Event: The occurrence or potential occurrence of problematic data actions

Data Processing: The collective set of data actions (i.e., the complete data life cycle, including, but not limited to collection, retention, logging, generation, transformation, use, disclosure, sharing, transmission, and disposal)

Privacy Risk: The likelihood that individuals will experience problems resulting from data processing, and the impact should they occur

NIST Privacy Framework Structure

Privacy Framework Structure



The Core

provides an increasingly granular set of activities and outcomes that enable an organizational dialogue about managing privacy risk



Profiles

are a selection of specific Functions, Categories, and Subcategories from the Core that the organization has prioritized to help it manage privacy risk



help an organization communicate about whether it has sufficient processes and resources in place to manage privacy risk and achieve its Target Profile

Example Subcategories



ID.IM-P

ID.IM-P8

Data processing is mapped, illustrating the data actions and associated data elements for systems/products/services, including components; roles of the component owners/operators; and interactions of individuals or third parties with the systems/products/services.

GV.PO-P GV.PO-P5

Legal, regulatory, and contractual requirements regarding privacy are understood and managed.

CT.DP-P

CT.DP-P2

Data are processed to limit the identification of individuals (e.g., deidentification privacy techniques, tokenization).

CM.AW-P CM.AW-P1

Mechanisms (e.g., notices, internal or public reports) for communicating data processing purposes, practices, associated privacy risks, and options for enabling individuals' data processing preferences and requests are established and in place.

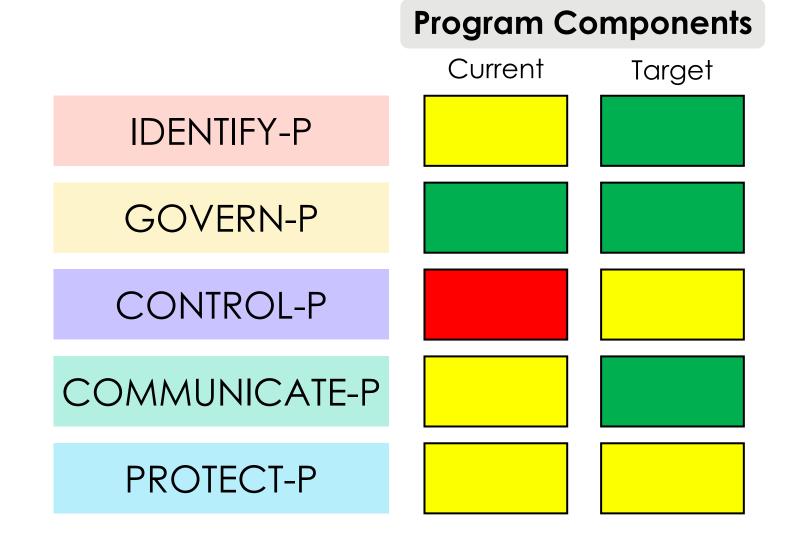
PR.AC-P

PR.AC-P2

Physical access to data and devices is managed.

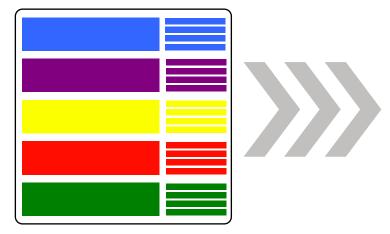
NIST Privacy Framework Implementation

Communication and Advocacy with Leadership Example

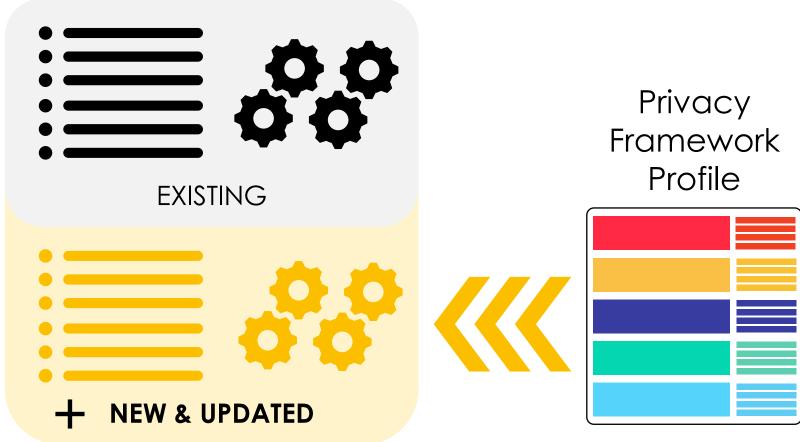


Program Alignment Example

Requirements & Controls



Cybersecurity Framework Profile



Resources

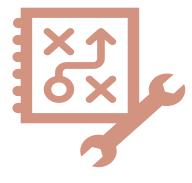


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Small & Medium Business Quick
Start Guide



Crosswalks

- GDPR
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Videos



Translations

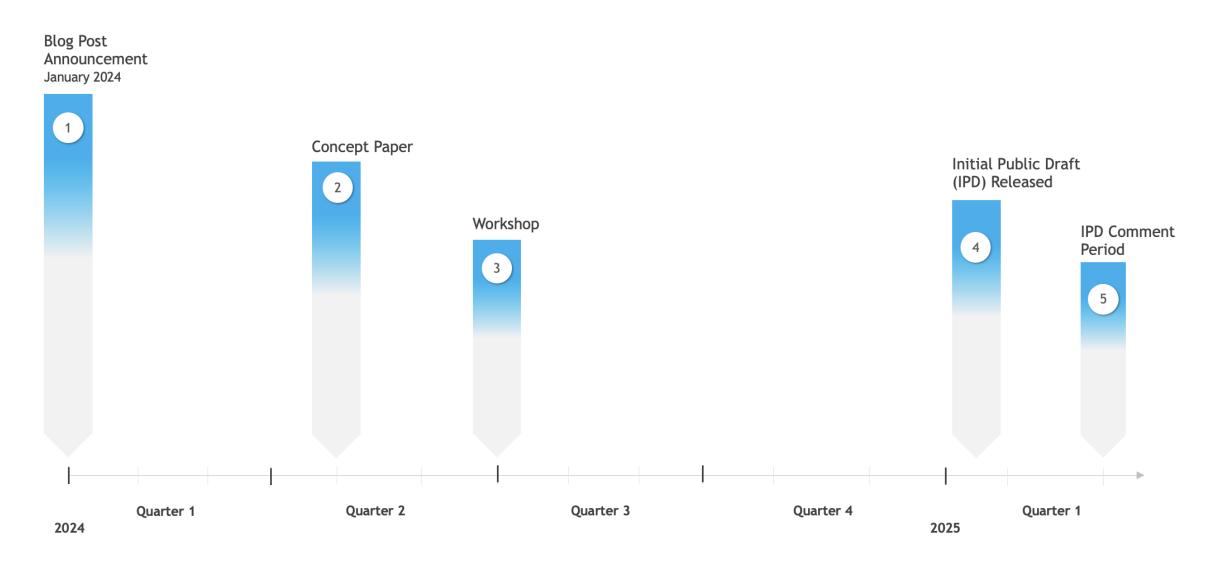
Arabic, Indonesian, Malay, Portuguese, Spanish

Guidelines & Tools

- NIST Privacy and Security Controls Catalog (SP 800-53 Rev. 5)
- NIST Privacy Risk Assessment Methodology

Next Steps

Privacy Framework Version 1.1 Development Schedule



Stay Engaged

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Appendix: Core

Identify-P

Function		Category	Subcategory
IDENTIFY-P	(ID-P):	Inventory and Mapping (ID.IM-P): Data processing	ID.IM-P1: Systems/products/services that process data are inventoried.
Develop the		by systems, products, or services is understood and	ID.IM-P2: Owners or operators (e.g., the organization or third parties such as service
organization	nal	informs the management of privacy risk.	providers, partners, customers, and developers) and their roles with respect to the
understandi	ng to		systems/products/services and components (e.g., internal or external) that process data
manage priv	/асу		are inventoried.
risk for indiv	viduals 💮		ID.IM-P3: Categories of individuals (e.g., customers, employees or prospective
arising from	data		employees, consumers) whose data are being processed are inventoried.
processing.			ID.IM-P4: Data actions of the systems/products/services are inventoried.
			ID.IM-P5: The purposes for the data actions are inventoried.
			ID.IM-P6: Data elements within the data actions are inventoried.
			ID.IM-P7: The data processing environment is identified (e.g., geographic location,
			internal, cloud, third parties).
			ID.IM-P8: Data processing is mapped, illustrating the data actions and associated data
			elements for systems/products/services, including components; roles of the component
			owners/operators; and interactions of individuals or third parties with the
		080	systems/products/services.
		Business Environment (ID.BE-P): The organization's	ID.BE-P1: The organization's role(s) in the data processing ecosystem are identified
		mission, objectives, stakeholders, and activities are	and communicated.
		understood and prioritized; this information is used	ID.BE-P2: Priorities for organizational mission, objectives, and activities are
		to inform privacy roles, responsibilities, and risk	established and communicated.
		management decisions.	ID.BE-P3: Systems/products/services that support organizational priorities are identified
			and key requirements communicated.

Identify-P (continued)

Function	Category	Subcategory
	Risk Assessment (ID.RA-P): The organization understands the privacy risks to individuals and how such privacy risks may create follow-on impacts on organizational operations, including mission, functions, other risk management priorities (e.g., compliance, financial), reputation, workforce, and culture.	ID.RA-P1: Contextual factors related to the systems/products/services and the data actions are identified (e.g., individuals' demographics and privacy interests or perceptions, data sensitivity and/or types, visibility of data processing to individuals and third parties). ID.RA-P2: Data analytic inputs and outputs are identified and evaluated for bias. ID.RA-P3: Potential problematic data actions and associated problems are identified. ID.RA-P4: Problematic data actions, likelihoods, and impacts are used to determine and prioritize risk.
	Data Processing Ecosystem Risk Management (ID.DE-P): The organization's priorities, constraints, risk tolerance, and assumptions are established	ID.RA-P5: Risk responses are identified, prioritized, and implemented. ID.DE-P1: Data processing ecosystem risk management policies, processes, and procedures are identified, established, assessed, managed, and agreed to by organizational stakeholders.
	and used to support risk decisions associated with managing privacy risk and third parties within the data processing ecosystem. The organization has established and implemented the processes to identify, assess, and manage privacy risks within	ID.DE-P2: Data processing ecosystem parties (e.g., service providers, customers, partners, product manufacturers, application developers) are identified, prioritized, and assessed using a privacy risk assessment process. ID.DE-P3: Contracts with data processing ecosystem parties are used to implement appropriate measures designed to meet the objectives of an organization's privacy
	the data processing ecosystem.	program. ID.DE-P4: Interoperability frameworks or similar multi-party approaches are used to manage data processing ecosystem privacy risks. ID.DE-P5: Data processing ecosystem parties are routinely assessed using audits, test results, or other forms of evaluations to confirm they are meeting their contractual, interoperability framework, or other obligations.

Govern-P

Function	Category	Subcategory		
GOVERN-P (GV-P)	Governance Policies, Processes, and Procedures	GV.PO-P1: Organizational privacy values and policies (e.g., conditions on data		
Develop and	(GV.PO-P): The policies, processes, and procedures	processing such as data uses or retention periods, individuals' prerogatives with		
implement the	to manage and monitor the organization's	respect to data processing) are established and communicated.		
organizational	regulatory, legal, risk, environmental, and	GV.PO-P2: Processes to instill organizational privacy values within		
governance	operational requirements are understood and	system/product/service development and operations are established and in place.		
structure to enabl	inform the management of privacy risk.	GV.PO-P3: Roles and responsibilities for the workforce are established with respect to		
an ongoing		privacy.		
understanding of		GV.PO-P4: Privacy roles and responsibilities are coordinated and aligned with third-		
the organization's		party stakeholders (e.g., service providers, customers, partners).		
risk management		GV.PO-P5: Legal, regulatory, and contractual requirements regarding privacy are		
priorities that		understood and managed.		
are informed by		GV.PO-P6: Governance and risk management policies, processes, and procedures		
privacy risk.		address privacy risks.		
	Risk Management Strategy (GV.RM-P): The	GV.RM-P1: Risk management processes are established, managed, and agreed to by		
	organization's priorities, constraints, risk	organizational stakeholders.		
	tolerances, and assumptions are established and	GV.RM-P2: Organizational risk tolerance is determined and clearly expressed.		
	used to support operational risk decisions.	GV.RM-P3: The organization's determination of risk tolerance is informed by its		
		role(s) in the data processing ecosystem.		
	Awareness and Training (GV.AT-P): The	GV.AT-P1: The workforce is informed and trained on its roles and responsibilities.		
	organization's workforce and third parties engaged	GV.AT-P2: Senior executives understand their roles and responsibilities.		
	in data processing are provided privacy awareness	GV.AT-P3: Privacy personnel understand their roles and responsibilities.		
	education and are trained to perform their privacy-	GV.AT-P4: Third parties (e.g., service providers, customers, partners) understand their		
	related duties and responsibilities consistent with	roles and responsibilities.		
	related policies, processes, procedures, and	18		
	agreements and organizational privacy values.			

Govern-P (continued)

Function	Category	Subcategory
	Monitoring and Review (GV.MT-P): The policies,	GV.MT-P1: Privacy risk is re-evaluated on an ongoing basis and as key factors, including
	processes, and procedures for ongoing review of the	the organization's business environment (e.g., introduction of new technologies),
	organization's privacy posture are understood and	governance (e.g., legal obligations, risk tolerance), data processing, and
	inform the management of privacy risk.	systems/products/services change.
		GV.MT-P2 : Privacy values, policies, and training are reviewed and any updates are
		communicated.
		GV.MT-P3 : Policies, processes, and procedures for assessing compliance with legal
		requirements and privacy policies are established and in place.
		GV.MT-P4: Policies, processes, and procedures for communicating progress on
		managing privacy risks are established and in place.
		GV.MT-P5: Policies, processes, and procedures are established and in place to receive,
		analyze, and respond to problematic data actions disclosed to the organization from
		internal and external sources (e.g., internal discovery, privacy researchers, professional
		events).
		GV.MT-P6: Policies, processes, and procedures incorporate lessons learned from
		problematic data actions.
		GV.MT-P7: Policies, processes, and procedures for receiving, tracking, and responding to
		complaints, concerns, and questions from individuals about organizational privacy
		practices are established and in place.

Control-P

Function	Category	Subcategory
CONTROL-P (CT-P):	Data Processing Policies, Processes, and Procedures	CT.PO-P1: Policies, processes, and procedures for authorizing data processing (e.g.,
Develop and	(CT.PO-P): Policies, processes, and procedures are	organizational decisions, individual consent), revoking authorizations, and maintaining
implement	maintained and used to manage data processing	authorizations are established and in place.
appropriate	(e.g., purpose, scope, roles and responsibilities in the	CT.PO-P2: Policies, processes, and procedures for enabling data review, transfer, sharing
activities to enable	data processing ecosystem, and management	or disclosure, alteration, and deletion are established and in place (e.g., to maintain
organizations or	commitment) consistent with the organization's risk	data quality, manage data retention).
individuals to	strategy to protect individuals' privacy.	CT.PO-P3: Policies, processes, and procedures for enabling individuals' data processing
manage data with		preferences and requests are established and in place.
sufficient granularity		CT.PO-P4: A data life cycle to manage data is aligned and implemented with the
to manage privacy		system development life cycle to manage systems.
risks.	Data Processing Management (CT.DM-P): Data are	CT.DM-P1: Data elements can be accessed for review.
	managed consistent with the organization's risk	CT.DM-P2: Data elements can be accessed for transmission or disclosure.
	strategy to protect individuals' privacy, increase	CT.DM-P3: Data elements can be accessed for alteration.
	manageability, and enable the implementation of	CT.DM-P4: Data elements can be accessed for deletion.
	privacy principles (e.g., individual participation, data	CT.DM-P5: Data are destroyed according to policy.
	quality, data minimization).	CT.DM-P6: Data are transmitted using standardized formats.
		CT.DM-P7: Mechanisms for transmitting processing permissions and related data values
		with data elements are established and in place.
		CT.DM-P8: Audit/log records are determined, documented, implemented, and
		reviewed in accordance with policy and incorporating the principle of data
		minimization.
		CT.DM-P9: Technical measures implemented to manage data processing are tested
		and assessed.
		CT.DM-P10: Stakeholder privacy preferences are included in algorithmic design O
		objectives and outputs are evaluated against these preferences.

Control-P (continued)

-		
Function	Category	Subcategory
	Disassociated Processing (CT.DP-P): Data processing	CT.DP-P1: Data are processed to limit observability and linkability (e.g., data actions
	solutions increase disassociability consistent with the	take place on local devices, privacy-preserving cryptography).
	organization's risk strategy to protect individuals'	CT.DP-P2: Data are processed to limit the identification of individuals (e.g., de-
	privacy and enable implementation of privacy	identification privacy techniques, tokenization).
	principles (e.g., data minimization).	CT.DP-P3: Data are processed to limit the formulation of inferences about individuals'
		behavior or activities (e.g., data processing is decentralized, distributed architectures).
		CT.DP-P4: System or device configurations permit selective collection or disclosure of
		data elements.
		CT.DP-P5: Attribute references are substituted for attribute values.

Communicate-P

Function	Category	Subcategory
COMMUNICATE-P	Communication Policies, Processes, and Procedures	CM.PO-P1: Transparency policies, processes, and procedures for communicating data
(CM-P): Develop and	(CM.PO-P): Policies, processes, and procedures are	processing purposes, practices, and associated privacy risks are established and in place.
implement	maintained and used to increase transparency of the	CM.PO-P2: Roles and responsibilities (e.g., public relations) for communicating data
appropriate	organization's data processing practices (e.g.,	processing purposes, practices, and associated privacy risks are established.
activities to enable	purpose, scope, roles and responsibilities in the data	
organizations and	processing ecosystem, and management	
individuals to have a	commitment) and associated privacy risks.	
reliable	Data Processing Awareness (CM.AW-P): Individuals	CM.AW-P1: Mechanisms (e.g., notices, internal or public reports) for communicating
understanding and	and organizations have reliable knowledge about	data processing purposes, practices, associated privacy risks, and options for enabling
engage in a dialogue	data processing practices and associated privacy	individuals' data processing preferences and requests are established and in place.
about how data are	risks, and effective mechanisms are used and	CM.AW-P2: Mechanisms for obtaining feedback from individuals (e.g., surveys or focus
processed and	maintained to increase predictability consistent with	groups) about data processing and associated privacy risks are established and in place.
associated privacy	the organization's risk strategy to protect individuals'	CM.AW-P3: System/product/service design enables data processing visibility.
risks.	privacy.	CM.AW-P4: Records of data disclosures and sharing are maintained and can be
		accessed for review or transmission/disclosure.
		CM.AW-P5: Data corrections or deletions can be communicated to individuals or
		organizations (e.g., data sources) in the data processing ecosystem.
		CM.AW-P6: Data provenance and lineage are maintained and can be accessed for
		review or transmission/disclosure.
		CM.AW-P7: Impacted individuals and organizations are notified about a privacy breach
		or event.
		CM.AW-P8: Individuals are provided with mitigation mechanisms (e.g., credit
		monitoring, consent withdrawal, data alteration or deletion) to address impacts of
		problematic data actions.

Protect-P

Pro	rect-P	
Function	Category	Subcategory
PROTECT-P (PR-P):	Data Protection Policies, Processes, and	PR.PO-P1: A baseline configuration of information technology is created and maintained
Develop and	Procedures (PR.PO-P): Security and privacy	incorporating security principles (e.g., concept of least functionality).
implement	policies (e.g., purpose, scope, roles and	PR.PO-P2: Configuration change control processes are established and in place.
appropriate data	responsibilities in the data processing ecosystem,	PR.PO-P3: Backups of information are conducted, maintained, and tested.
processing	and management commitment), processes, and	PR.PO-P4: Policy and regulations regarding the physical operating environment for
safeguards.	procedures are maintained and used to manage	organizational assets are met.
	the protection of data.	PR.PO-P5: Protection processes are improved.
		PR.PO-P6: Effectiveness of protection technologies is shared.
		PR.PO-P7: Response plans (Incident Response and Business Continuity) and recovery
		plans (Incident Recovery and Disaster Recovery) are established, in place, and managed.
		PR.PO-P8: Response and recovery plans are tested.
		PR.PO-P9: Privacy procedures are included in human resources practices (e.g.,
		deprovisioning, personnel screening).
		PR.PO-P10: A vulnerability management plan is developed and implemented.
	Identity Management, Authentication, and	PR.AC-P1: Identities and credentials are issued, managed, verified, revoked, and audited
	Access Control (PR.AC-P): Access to data and	for authorized individuals, processes, and devices.
	devices is limited to authorized individuals,	PR.AC-P2: Physical access to data and devices is managed.
	processes, and devices, and is managed consistent	PR.AC-P3: Remote access is managed.
	with the assessed risk of unauthorized access.	PR.AC-P4: Access permissions and authorizations are managed, incorporating the
		principles of least privilege and separation of duties.
		PR.AC-P5: Network integrity is protected (e.g., network segregation, network
		segmentation).
		PR.AC-P6: Individuals and devices are proofed and bound to credentials, and
		authenticated commensurate with the risk of the transaction (e.g., individuals' security
		and privacy risks and other organizational risks).

Protect-P (continued)

Function	Category	Subcategory
	Data Security (PR.DS-P): Data are managed	PR.DS-P1: Data-at-rest are protected.
	consistent with the organization's risk strategy to	PR.DS-P2: Data-in-transit are protected.
	protect individuals' privacy and maintain data	PR.DS-P3: Systems/products/services and associated data are formally managed
	confidentiality, integrity, and availability.	throughout removal, transfers, and disposition.
		PR.DS-P4: Adequate capacity to ensure availability is maintained.
		PR.DS-P5: Protections against data leaks are implemented.
		PR.DS-P6: Integrity checking mechanisms are used to verify software, firmware, and
		information integrity.
		PR.DS-P7: The development and testing environment(s) are separate from the
		production environment.
		PR.DS-P8: Integrity checking mechanisms are used to verify hardware integrity.
	Maintenance (PR.MA-P): System maintenance and	PR.MA-P1: Maintenance and repair of organizational assets are performed and
	repairs are performed consistent with policies,	logged, with approved and controlled tools.
	processes, and procedures.	PR.MA-P2: Remote maintenance of organizational assets is approved, logged, and
		performed in a manner that prevents unauthorized access.
	Protective Technology (PR.PT-P): Technical security	PR.PT-P1: Removable media is protected and its use restricted according to policy.
	solutions are managed to ensure the security and	PR.PT-P2: The principle of least functionality is incorporated by configuring systems
	resilience of systems/products/services and	to provide only essential capabilities.
	associated data, consistent with related policies,	PR.PT-P3: Communications and control networks are protected.
	processes, procedures, and agreements.	PR.PT-P4: Mechanisms (e.g., failsafe, load balancing, hot swap) are implemented to
		achieve resilience requirements in normal and adverse situations.

NIST SP 800-66r2: An Overview

Jeffrey Marron | NIST IT Specialist – INFOSEC
Nick Heesters | HHS OCR Senior Advisor for Cybersecurity
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PUBLICATIONS

NIST SP 800-66 Rev. 2 🔀

Implementing the Health Insurance Portability and Accountability Act (HIPAA) Security Rule: A Cybersecurity Resource Guide



Jeffrey Marron (NIST)

Abstract

The HIPAA Security Rule focuses on safeguarding electronic protected health information (ePHI) held or maintained by regulated entities. The ePHI that a regulated entity creates, receives, maintains, or transmits must be protected against reasonably anticipated threats, hazards, and impermissible uses and/or disclosures. This publication provides practical guidance and resources that can be used by regulated entities of all sizes to safeguard ePHI and better understand the security concepts discussed in the HIPAA Security Rule.

Keywords

administrative safeguards; Health Insurance Portability and Accountability Act; implementation specification; physical safeguards; risk assessment; risk management; Security Rule; standards; technical safeguards



NIST Special Publication 800 NIST SP 800-66r2

Implementing the Health Insurance
Portability and Accountability Act
(HIPAA) Security Rule

A Cybersecurity Resource Guide

Jeffrey A. Marron

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More details: https://csrc.nist.gov/pubs/sp/800/66/r2/final

HIPAA Security Rule Overview

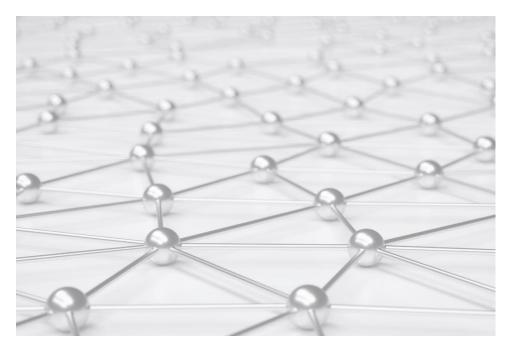


Health Insurance Portability and Accountability Act (HIPAA) Security Rule

 Safeguards the confidentiality, integrity, and availability of electronic protected health information (ePHI)

Security Rule Standards

- Administrative Safeguards actions and policies that manage and maintain security measures to protect ePHI
- Physical Safeguards physical measures that protect a covered entity's electronic information systems, buildings, and equipment
- Technical Safeguards technology, policy, and procedures that protect ePHI and control access to it
- Organizational Requirements standards for business associate contracts and entities and other arrangements for group health plans
- Policies, Procedures, & Documentation Requirements implementation of appropriate policies & procedures to comply with requirements of the Security Rule & maintaining records of these policies



Examples highlighted on the NIST Cybersecurity and Privacy Reference Tool: Cybersecurity and

Privacy Reference Tool | CSRC (nist.gov)

HIPAA Security Rule Overview (cont)



Standard	Sections	Implementation Specifications (R) = Required, (A) = Addressable
	Administrative	Safeguards
Security Management Process	164.308(a)(1)	Risk Analysis (R)
		Risk Management (R)
		Sanction Policy (R)
		Information System Activity Review (R)
Assigned Security Responsibility	164.308(a)(2)	(R)
Workforce Security	164.308(a)(3)	Authorization and/or Supervision (A)
		Workforce Clearance Procedure (A)
		Termination Procedures (A)
Information Access Management	164.308(a)(4)	Isolating Health care Clearinghouse Function (R)
		Access Authorization (A)
		Access Establishment and Modification (A)
Security Awareness and Training	164.308(a)(5)	Security Reminders (A)
	I	

- An implementation specification is a more detailed description of the method or approach that regulated entities can use to meet a particular standard
- SP 800-66r2 "aims to help educate readers about the security standards included in the HIPAA Security Rule and assist regulated entities in their implementation of the Security Rule."

Assessing Risk to ePHI



Section 3 of SP 800-66r2 discusses a risk assessment process

Recent OCR findings and fines on healthcare covered entities are related to lack of a Security Risk Assessment

- 1. Prepare for the assessment understand use of ePHI
- 2. Identify reasonably anticipated threats to ePHI
- 3. Identify **vulnerabilities** that could be exploited
- 4. Determine **likelihood** of threat exploiting a vulnerability
- 5. Determine **impact** of threat exploiting a vulnerability
- 6. Determine **level** of risk
- **7. Document** risk assessment results

Determining Likelihood and Level of Risk



Likelihood of Threat	Likelihood that Threat Events Result in Adverse Impacts				
Event Initiation or Occurrence	Very Low	Low	Moderate	High	Very High
Very High	Low	Moderate	High	Very High	Very High
High	Low	Moderate	Moderate	High	Very High
Moderate	Low	Low	Moderate	Moderate	High
Low	Very Low	Low	Low	Moderate	Moderate
Very Low	Very Low	Very Low	Low	Low	Low

Threat Likelihood	Level of Impact				
Zikemood	Very Low	Low	Moderate	High	Very High
Very High	Very Low	Low	Moderate	High	Very High
High	Very Low	Low	Moderate	High	Very High
Moderate	Very Low	Low	Moderate	Moderate	High
Low	Very Low	Low	Low	Low	Moderate
Very Low	Very Low	Very Low	Very Low	Low	Low

Managing Risk to ePHI



Section 4 of SP 800-66r2 discusses a risk management process

- 1. Assess risks
 - Determine organizational risk tolerance level(s)
 - Which threat/vulnerability pairs exceed risk tolerance?
 - Do standards and implementation specifications reduce risk below risk tolerance levels?
- 2. Implement **additional security controls** to bring risk to ePHI within risk tolerance
 - Are other organizational controls already in place?
 - Revisit risk tolerance levels or avoid risk to ePHI
- 3. Document risk management activities

Self-Assessment for Regulated Entities



Section 5 of SP 800-66r2 discusses considerations for regulated entities when implementing the Security Rule's standards

- **Key Activities**: Actions that are often associated with the security functions suggested by each HIPAA Security Rule standard
- <u>Description</u>: Includes the types of activities that a regulated entity may pursue in implementing a standard.
- <u>Sample Questions</u>: Includes questions that a regulated entity may ask itself to determine whether the standard has been adequately implemented

Self-Assessment for Regulated Entities (cont)



5.1.5. Security Awareness and Training (§ 164.308(a)(5))⁶¹

HIPAA Standard: Implement a security awareness and training program for all members of its workforce (including management).

Table 12. Key activities, descriptions, and sample questions for the Security Awareness and Training standard

Key Activities	Description	Sample Questions
Conduct a Training Needs Assessment	 Determine the training needs of the organization. Interview and involve key personnel in assessing security training needs. Use feedback and analysis of past events to help determine training needs. Review organizational behavior issues, past incidents, and/or breaches to determine what training is missing or needs reinforcement, improvement, or periodic reminders. 	 What awareness, training, and education programs are needed? Which are required? Is the organization monitoring current threats to determine possible areas of training needs? Are there current, relevant threats (e.g., phishing, ransomware) about which personnel need training? Do workforce members need training on any particular organization devices (e.g., IoT devices) or technology that pose a risk to ePHI? What is the current status regarding how these needs are being addressed (e.g., how well are current efforts working)? Where are the gaps between the needs and what is being done (e.g., what more needs to be done)? What are the training priorities in terms of content and audience?
Develop and Approve a Training Strategy and a Plan	 Address the specific HIPAA policies that require security awareness and training in the security awareness and training program. 	Is there a procedure in place to ensure that everyone in the organization receives security awareness training, including teleworkers and remote personnel?

Self-Assessment for Regulated Entities (cont)



5.3.4. Person or Entity Authentication (§ 164.312(d))139

HIPAA Standard: Implement procedures to verify that a person or entity seeking access to electronic protected health information is the one claimed.

Table 24. Key activities, descriptions, and sample questions for the Person or Entity Authentication standard

Key Activities	Description	Sample Questions		
Determine Authentication Applicability to Current Systems/Applications	 Identify the methods available for authentication. Under the HIPAA Security Rule, authentication is the corroboration that a person is the one claimed (45 CFR § 164.304). Identify points of electronic access that require or should require authentication. Ensure that the regulated entity's risk analysis properly assesses risks for such access points (e.g., risks of unauthorized access from within the enterprise could be different than those of remote unauthorized access). Authentication requires establishing the validity of a transmission source and/or verifying an individual's claim that they have been authorized for specific access privileges to information and information systems. 	 What authentication methods are available? What are the advantages and disadvantages of each method? Can risks of unauthorized access be sufficiently reduced for each point of electronic access with available authentication methods? What will it cost to implement the available methods in the environment? Are there trained staff who can maintain the system or should outsourced support be considered? Are passwords being used? If so, are they unique to the individual? Is MFA being used? If so, how and where is it implemented? 		
Evaluate Available Authentication Options	 Weigh the relative advantages and disadvantages of commonly used authentication approaches. There are three commonly used authentication approaches available: Something a person knows, such as a password Something a person has or is in possession of, such as a token (e.g., smart card, hardware token) Some type of biometric identification that a person provides, such as a fingerprint 	 What are the strengths and weaknesses of each available option? Which can be best supported with assigned resources (e.g., budget/staffing)? What level of authentication is appropriate for each access to ePHI based on the assessment of risk? Has the organization identified all instances of access to ePHI (including by services, vendors, or application programming interfaces [APIs]) and considered 		

NIST Cybersecurity and Privacy Reference Tool (CPRT) Mapping



curity Rule Identifiers	Security Rules	Standards Identifiers	Standards	Key Activities	▼ Descriptions ▼	Sample Questions
rity Rule Identifiers 308 Administrative Safeguards: Defined in the Security Rule as the "administrative actions and policies, and procedures to manage the selection, development, implementation, and maintenance of security measures to profetected health information at to manage the conduct of the covered ent workforce in relation to the protection of information."	164.308(a)(1)	Standards Security Management Process: HIPAA Standard: Implement policies and procedures to prevent, detect, contain, and correct security violations.	Key Activities Identify all ePHI and Relevant Information Systems	Identify where ePHI is generated within the organization, where it enters the organization, where it moves within the organization, where it is stored, and where it leaves the organization. Identify all systems that house ePHI. Be sure to identify mobile devices, medical equipment, and medical IoT devices that store, process, or transmit ePHI. Include all hardware and software that are used to collect, store, process, or transmit	Is the hardware and software inventory updated on a regular basis? Have hardware and software that maintains or transmits ePHI been identified? Does this	
Planning Note (02/14/2024): ☑					Analyze business functions and verify the ownership and control of information system elements as necessary. remote access dev	inventory include removable media and remote access devices? Is the current configuration of organization systems documented, including connections to other systems?
 See NIST's Cybersecurity and Privacy Reference Tool (<u>CPRT</u>) for the following content: Key activities, descriptions, and sample questions from the tables in Section 5 Mappings of the HIPAA Security Rule's standards and implementation specifications to NIST Cybersecurity Framework Subcategories and SP 800-53r5 security controls 				Has a BIA been performed?		
	NIST publications relevant to ea		ard			-

More details: Cybersecurity and Privacy Reference Tool | CSRC (nist.gov)

(CPRT) HIPAA Security Rule Mappings



Key Activities	Description	Sample Questions
1. Isolate Healthcare Clearinghouse Functions 25	 If a healthcare clearinghouse is part of a larger organization, the clearinghouse must implement policies and procedures that protect the ePHI of the clearinghouse from unauthorized access by the larger organization. Determine whether a component of the regulated entity constitutes a healthcare clearinghouse under the HIPAA Security Rule. If no clearinghouse functions exist, document this finding. If a clearinghouse exists within the organization, implement procedures for access that are consistent with the HIPAA Privacy Rule. 	 If healthcare clearinghouse functions are performed, are policies and procedures implemented to protect ePHI from the other functions of the larger organization? Does the healthcare clearinghouse share hardware or software with a larger organization of which it is a part? Does the healthcare clearinghouse share staff or physical space with staff from a larger organization? Has a separate network or subsystem been established for the healthcare clearinghouse, if reasonable and appropriate? Has staff of the healthcare clearinghouse been trained to safeguard ePHI from disclosure to the larger organization, if required for compliance with the HIPAA
Implementation Specification (Required)	 If a healthcare clearinghouse is part of a larger organization, the clearinghouse must implement policies and procedures that protect the ePHI of the clearinghouse from unauthorized access by the larger organization. Hide all 164.308(a)(4)(ii)(A) References + 164.308(a)(4)(ii)(A) to CSF v1.1 + 164.308(a)(4)(ii)(A) to SP 800-53 Rev 5.1.1 	Privacy Rule?

More details: Cybersecurity and Privacy Reference Tool | CSRC (nist.gov)

National Online Informative References (OLIR) Program NIST



The <u>OLIR</u> Catalog provides an interface for Developers and Users to view Informative References and analyze Reference Data

National Online Informative References Program OLIR

Status	Informative Reference (version)	Reference Document	Posted Date	Focal Document
Final	HIPAA-Sec-Rule-CSFv1.1 (1.0.0) (More Details)	Health Insurance Portability and Accountability Act (HIPAA)	2024-03	3-20 Framework for Improving Critical Infrastructure Cybersecurity
Final	HIPAA-Sec-Rule-800-53- 5.1.1 (1.0.0) (More Details)	Health Insurance Portability and Accountability Act (HIPAA)		ecurity and Privacy Controls for Information stems and Organizations

Topical Resources for Regulated Entities



Appendix F of SP 800-66r2: points to an annotated, topical listing of additional **resources** hosted on the document's <u>webpage</u>:

NIST SP 800-66 Rev. 2 💋

Implementing the Health Insurance Portability and Accountability Act (HIPAA) Security Rule: A Cybersecurity Resource Guide



Date Published: February 2024

Supersedes: SP 800-66 Rev. 1 (10/23/2008)

Planning Note (02/14/2024): 🔼

See NIST's Cybersecurity and Privacy Reference Tool (CPRT) for the following content:

- Key activities, descriptions, and sample questions from the tables in Section 5
- Mappings of the HIPAA Security Rule's standards and implementation specifications to NIST Cybersecurity Framework

DOCUMENTATION

Publication:

<u>▲ Download URL</u>

Supplemental Material:

Appendix F: HIPAA Security Rule Resources (pdf)



STAY IN TOUCH

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HHS Cybersecurity Resources

HHS OCR Guidance:

- Ransomware & HIPAA Video: https://www.youtube.com/watch?v=nBKUlAy10FA
- Ransomware Fact Sheet: https://www.hhs.gov/sites/default/files/RansomwareFactSheet.pdf
- Cybersecurity Materials: https://www.hhs.gov/hipaa/for-professionals/security/guidance/cybersecurity/index.html
- How HIPAA Can Help Defend Against Common Cyberattacks: <u>https://www.youtube.com/watch?v=VnbBxxyZLc8</u>
- HIPAA Security Rule: https://www.hhs.gov/hipaa/for-professionals/security/guidance/index.html

HHS Healthcare Public Health (HPH) Sector Cybersecurity Performance Goals (CPG):

https://hhscyber.hhs.gov/performance-goals.html

Health Industry Cybersecurity Practices (HICP): Managing Threats and Protecting Patients:

https://405d.hhs.gov/information

HHS Security Risk Assessment Tool:

https://www.healthit.gov/topic/privacy-security-and-hipaa/security-risk-assessment-tool

Connect with OCR

Office for Civil Rights

U.S. Department of Health and Human Services



www.hhs.gov/hipaa



Join our Privacy and Security listservs at

https://www.hhs.gov/hipaa/for-professionals/list-serve/



@HHSOCR

HHS Cybersecurity Activities Panel

Moderator

Timothy Noonan, Deputy Director, Health Information Privacy, Data, and Cybersecurity, HHS Office for Civil Rights

Panelists

- Brian Mazanec, Deputy Director, Office of Preparedness,
 HHS Administration for Strategic Preparedness and
 Response
- Steve Posnack, Principal Deputy Assistant Secretary Technology Policy, HHS ASTP/ONC
- Jessica Wilkerson, Senior Cyber Policy Advisor Division of Medical Device Cybersecurity, FDA

Related Resources

OCR

- HIPAA Security Rule: https://www.hhs.gov/hipaa/for-professionals/security/index.html
- o HIPAA Security Rule Guidance:
 - https://www.hhs.gov/hipaa/forprofessionals/security/guidance/index.html
- o HIPAA Security Rule Videos:
 - https://www.youtube.com/@USGovHHSOCR
 - https://www.youtube.com/watch?v=VnbBxxyZLc8

ASPR

- HPH Cybersecurity Gateway: https://hhscyber.hhs.gov
- HHS 405(d) Health Care Industry Cybersecurity Practices: https://405d.hhs.gov

ASTP/ONC

- Health IT: https://www.healthit.gov
- Security Risk Assessment Tool
 - https://www.healthit.gov/topic/privacy-security-andhipaa/security-risk-assessment-tool

FDA

Medical Device Cybersecurity: https://www.fda.gov/medical-devices/digital-health-center-excellence/cybersecurity



HIPAA Security Rule Policy Update

Marissa Gordon-Nguyen Senior Advisor for Policy Health Information Privacy, Data, and Cybersecurity Division HHS Office for Civil Rights

October 23, 2024



1996 - HIPAA Enacted

- Efficiency and effectiveness of the health care system
 - Security for electronic health information transactions
 - Considerations for security standards
 - What's needed?
 - What's possible?
 - How hard is it?
 - Administrative, physical, and technical safeguards

1998 Proposed Rule \rightarrow 2003 Final Rule

- Health Care Financing Administration (HCFA)
- Administrative procedures,
 Physical safeguards, Technical security services, and Technical security mechanisms
- Requirements and Implementation features
- 2,350 public comments

- Centers for Medicare and Medicaid Services (CMS)
- Administrative, Physical, and Technical safeguards and Organizational requirements
- Standards and Implementation specifications
- Based on comments, standards framed in generic terms

2009 HITECH Act

- Promotion of health information technology for improving health care quality, safety, and efficiency
- Business associate liability for compliance with Security Rule requirements
- Annual guidance on effective and appropriate security safeguards
- Increased penalties for violations of the HIPAA Rules

2009 Delegation of Authority to OCR

Secretary delegated Security Rule authority to OCR, citing:

Increased adoption of electronic records and electronic exchange

Increasing intersection of security and privacy

HITECH Act mandate to strengthen enforcement

2010 Proposed Rule \rightarrow 2013 Final Rule

HITECH Act penalties

HITECH Act liability for business associates

Definition of "electronic media"

Consistent Approach to HIPAA Security

- Confidentiality, integrity, and availability of ePHI
- Reasonable and appropriate safeguards
- Risk analysis and risk management
- Flexible, scalable, and technology neutral requirements



2024 Proposed Rule

 Proposed Modifications to the HIPAA Security Rule to Strengthen the Cybersecurity of Electronic Protected Health Information

• Under Review at White House Office of Management and Budget:
 RegInfo.gov→Regulatory Review→EO 12866 Regulatory Review→HHS

Resources

Security Rule:

http://www.hhs.gov/hipaa/for-professionals/security/index.html

Sign up for OCR listserv updates at:

https://www.hhs.gov/hipaa/for-professionals/list-serve/index.html



Contact Us

Office for Civil Rights

U.S. Department of Health and Human Services



ocrmail@hhs.gov

www.hhs.gov/ocr



Voice: (800) 368-1019

TDD: (800) 537-7697

Fax: (202) 519-3818



200 Independence Avenue, S.W.

H.H.H Building, Room 509-F

Washington, D.C. 20201