

March 4, 2020

The 29th National HIPAA Summit

HITRUST CSF®: A Credible Standard for Ensuring HIPAA Compliance





HITRUST CSF 101: Fast Facts



HITRUST CSF & HIPAA



HITRUST CSF & NIST



HITRUST CSF v9.3



Achieving HITRUST CSF Certification



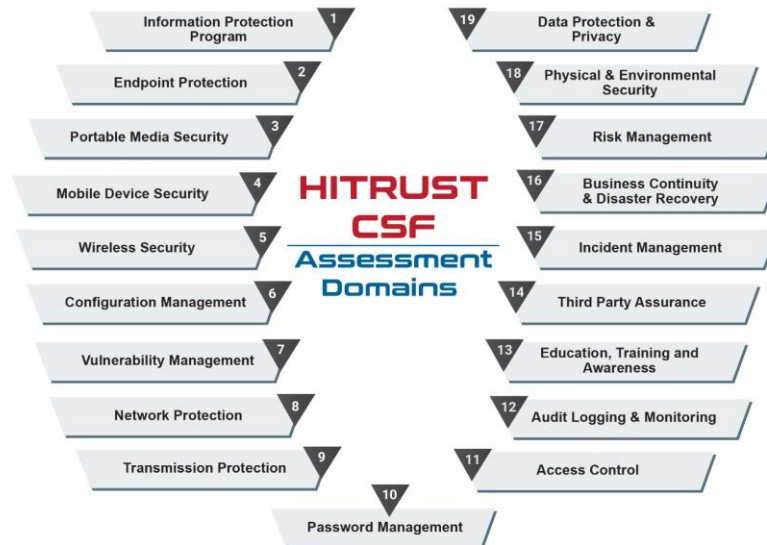
HITRUST CSF 101

Fast Facts

Achieving HITRUST CSF Certification

HITRUST CSF Controls

0.0 Information Security Management Program	1.0 Access Control
2.0 Human Resources Security	3.0 Risk Management
4.0 Security Policy	5.0 Organization of Information Security
6.0 Compliance	7.0 Asset Management
8.0 Physical & Environmental Security	9.0 Communications & Operations Management
10.0 Information Systems Acquisition, Development, & Maintenance	11.0 Information Security Incident Management
12.0 Business Continuity Management	13.0 Privacy Practices



HITRUST: Fast Facts

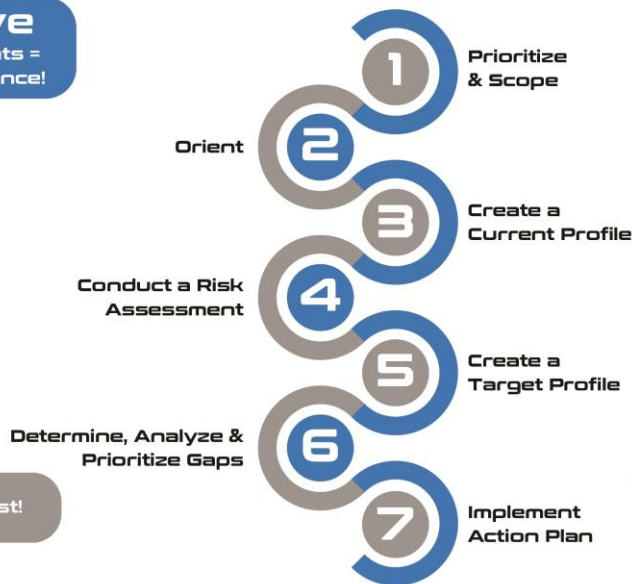
3 Implementation Levels	75 Certification Requirements	156 Control Specifications	49 Control Objectives
5 Maturity Levels	14 Control Categories	3 Risk Factors	19 Domains
Dozens Supported Regulations	15 Maturity Ratings		

Active Cyber Defense

Mirai = Future of Threats!
Kaizen = Enterprise Cybersecurity Program

Adaptive
Security Incidents =
Security Intelligence!

Robust and Roving
Cyber Defense



Verify, then Trust!

Asymmetric Attack
Surfaces Requires
Symmetric Defense



Code: CYBERDEFNH0019

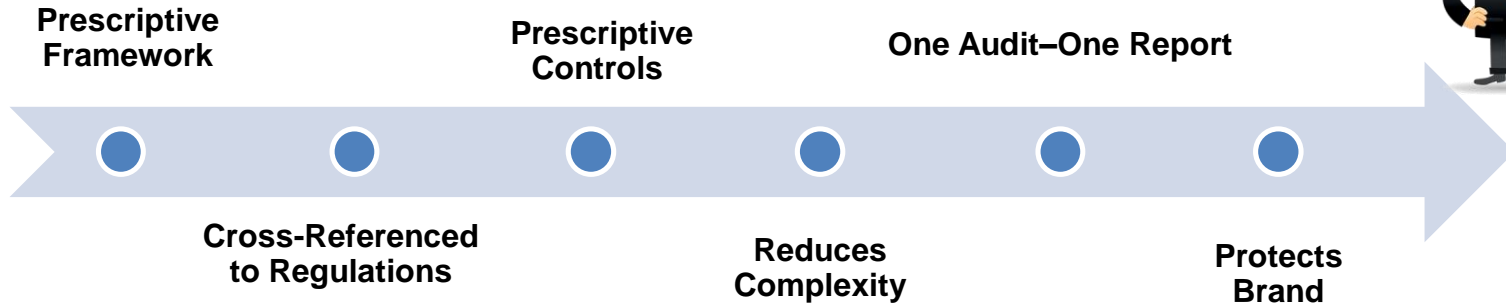
Cyber Resilience
In the 2020s

Wahid Ali Pasha

Global Cybersecurity & Compliance Expert

Why HITRUST Certification?

The 29th National
HIPAA Summit



HITRUST: Framework of Frameworks

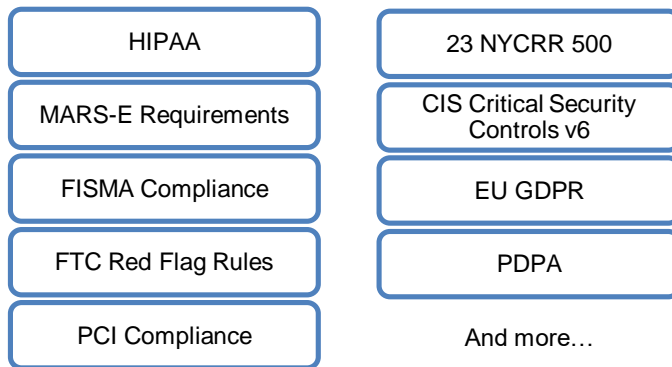
Organization of the HITRUST CSF

The 29th National
HIPAA Summit

- 🔗 Built on ISO 27001
- 🔗 HITRUST CSF organization



- 🔗 Integrates other standards



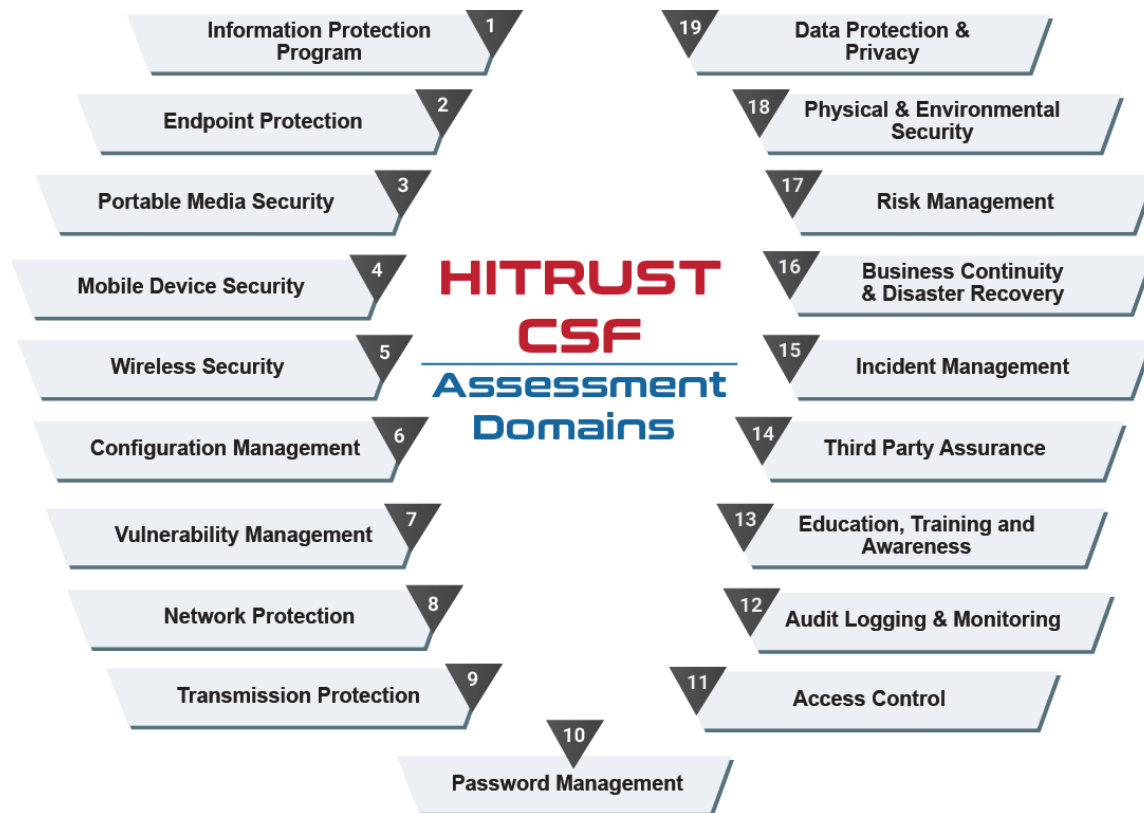
HITRUST CSF Control Categories

The 29th National
HIPAA Summit

CSF Control Category	Control Specifications	Required For HITRUST CSF Certification
0 Information Security Management Program	1	1
1 Access Control	25	16
2 Human Resources Security	9	5
3 Risk Management	4	3
4 Security Policy	2	2
5 Organization of Information Security	11	5
6 Compliance	10	5
7 Asset Management	5	2
8 Physical & Environmental Security	13	4
9 Communications & Operations Management	32	19
10 Information Systems Acquisition, Development & Maintenance	13	7
11 Information Security Incident Management	5	3
12 Business Continuity Management	5	3
13 Privacy Practices	21	
	156	75

HITRUST CSF Domains

The 29th National
HIPAA Summit



- | | | | |
|----|-------------------|----|---|
| 1 | 16 CFR Part 681 | 12 | DHS CRR v1.1 |
| 2 | 201 CMR 17.00 | 13 | EHNAC |
| 3 | AICPA TSP 100 | 14 | 21 CFR Part 11 |
| 4 | APEC | 15 | EU GDPR |
| 5 | CCPA | 16 | OCR Guidance for Unsecured PHI |
| 6 | CAQH Core Phase 1 | 17 | FFIEC IS |
| 7 | CAQH Core Phase 2 | 18 | FedRAMP |
| 8 | CIS Controls v7.1 | 19 | HITRUST De-ID Framework v1 |
| 9 | CSA CCM v3.0.1 | 20 | 45 CFR Part 164, HIPAA General Provisions |
| 10 | CMS ARS v3.1 | 21 | 45 CFR Part 164, HIPAA Security Rule |
| 11 | COBIT 5 | 22 | 45 CFR Part 164, HIPAA Breach Notification Rule |

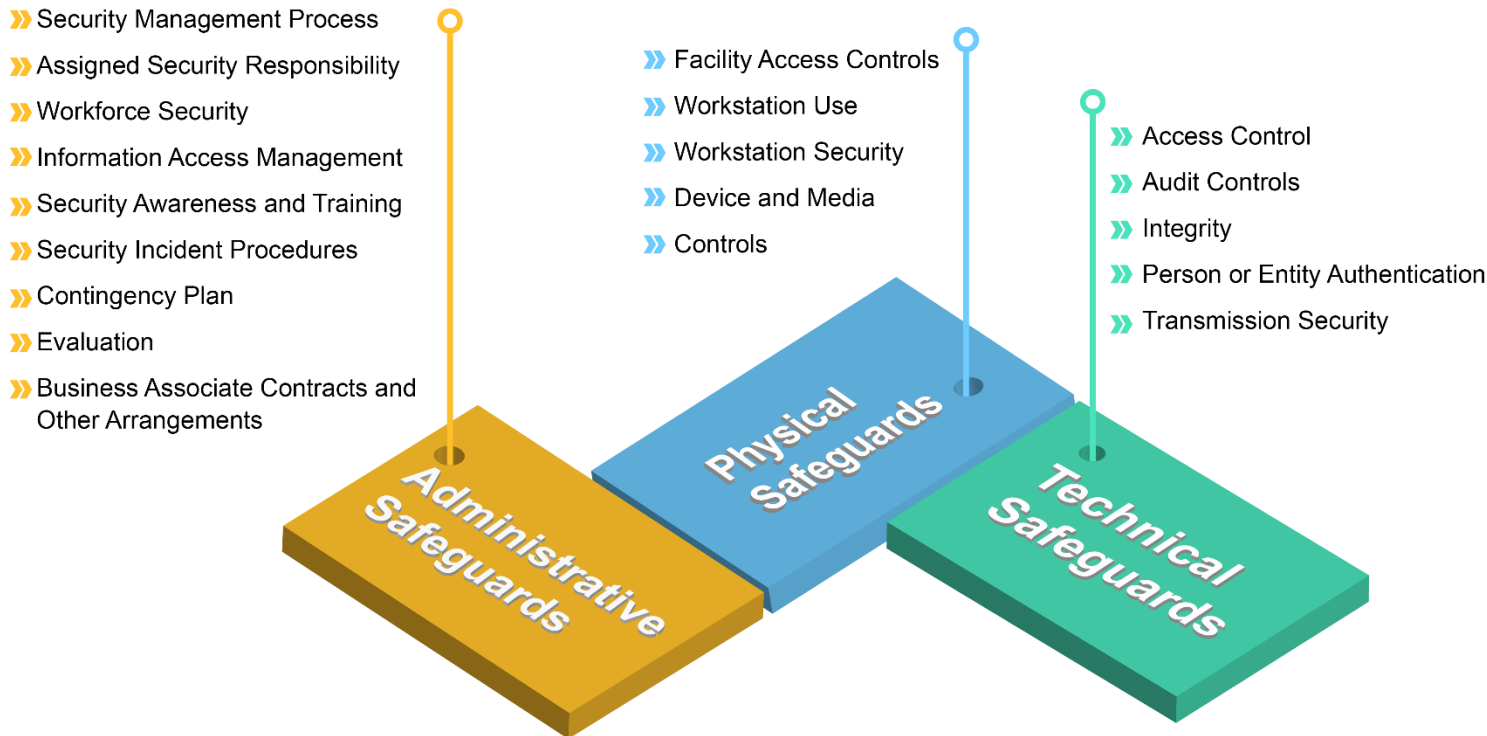
- 23 45 CFR Part 164, HIPAA Privacy Rule
- 24 IRS Publication 1075 v2016
- 25 ISO/IEC 27001:2013
- 26 ISO/IEC 27002:2013
- 27 ISO/IEC 27799:2016
- 28 ISO/IEC 29100:2011
- 29 ISO/IEC 29151:2017
- 30 Joint Commission Standards
- 31 MARS-E v2.0
- 32 23 NYCRR Part 500
- 33 NIST Cybersecurity Framework v1.1

- 34 NIST SP 800-53 R4
- 35 NIST SP 800-122
- 36 NIST SP 800-171 R2 (DFARS)
- 37 NRS 603A
- 38 OCR Audit Protocol (2016)
- 39 OECD Privacy Framework
- 40 PCI DSS v3.2.1
- 41 PDPA
- 42 PMI DSP Framework v1.0
- 43 SCIDSA 4655
- 44 1 TAC 15 390.2

HITRUST CSF & HIPAA

HIPAA Privacy, HIPAA Security & HITECH Breach

The 29th National
HIPAA Summit



HIPAA Privacy Rule to HITRUST CSF v9.3 Mapping

The 29th National
HIPAA Summit

#	HIPAA Privacy Rule	HITRUST CSF v9.3
1.	§164.502(a) Uses and Disclosures – General Rules STD	13.f Principal Access
		13.k Use and Disclosure
2.	§164.502(a)(2) Covered entities: Required disclosures STD	13.k Use and Disclosure
3.	§164.502(a)(4) Business associates: Permitted uses and disclosures STD	13.k Use and Disclosure
4.	§164.502(a)(4) Business associates: Required uses and disclosures	13.k Use and Disclosure
5.	§164.502(a)(5) Prohibited uses and disclosures	13.j Data Minimization
		13.k Use and Disclosure
6.	§164.502(f) Deceased Individuals STD	06.c Protection of Organizational Records
7.	§164.502(g)	13.e Choice
8.	§164.502(j)(1) Disclosures by whistleblowers	13.k Use and Disclosure
9.	§164.502(j)(2) Disclosures by workforce members who are victims of a crime	13.k Use and Disclosure

HIPAA Security Rule to HITRUST CSF v9.3 Mapping

The 29th National
HIPAA Summit

#	HIPAA Security Rule	HITRUST CSF v9.3
Administrative Safeguards		
1.	§164.308(a)(1)(i) Security Management Process	00.a Information Security Management Program 02.a Roles and Responsibilities 03.a Risk Management Program Development 05.a Management Commitment to Information Security 05.h Independent Review of Information Security 09.f Exchange Agreements
2.	164.308(a)(2) Assigned Security Responsibility	03.b Performing Risk Assessments 05.a Management Commitment to Information Security 05.c Allocation of Information Security Responsibilities 05.d Authorization Process for Information Assets and Facilities 06.g Compliance with Security Policies and Standards

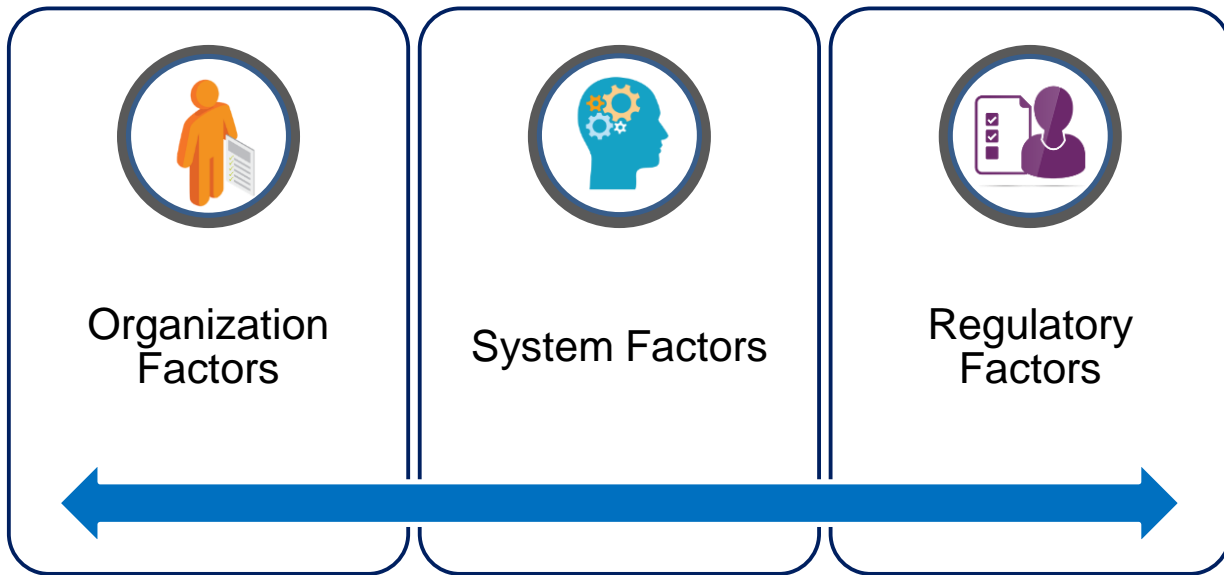
HIPAA Breach Notification Rule to HITRUST CSF v9.3 Mapping

The 29th National
HIPAA Summit

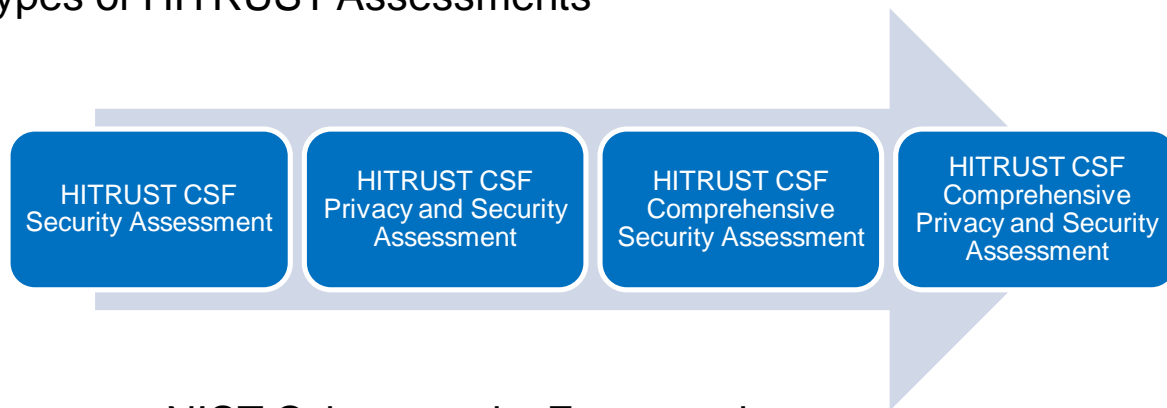
#	HIPAA Breach Notification Rule	HITRUST CSF v9.3
1.	§164.402	03.b Performing Risk Assessments
2.	§164.404(a)(1) General rule STD	11.a Reporting Information Security Events
		11.c Responsibilities and Procedures
3.	§164.404(a)(2) Breaches treated as discovered STD	11.a Reporting Information Security Events
4.	§164.404(b) Implementation specification: Timeliness of notification SPEC	05.k Addressing Security in Third Party Agreements
		11.a Reporting Information Security Events
5.	§164.404(c)(1) Elements SPEC	11.a Reporting Information Security Events
6.	§164.404(c)(2) Plain language requirement SPEC	11.a Reporting Information Security Events
7.	§164.404(c)(3)	11.a Reporting Information Security Events
8.	§164.404(d)(1) Written notice SPEC	11.a Reporting Information Security Events
9.	§164.404(d)(2) Substitute notice SPEC	11.a Reporting Information Security Events
10.	§164.404(d)(3) Additional notice in urgent situations SPEC	11.a Reporting Information Security Events

HITRUST Assessment: Risk Factors

The 29th National
HIPAA Summit



Four types of HITRUST Assessments



All incorporate NIST Cybersecurity Framework

 NIST Cybersecurity Framework Certification with HITRUST CSF Certification

Determined as part of scoping process



1.0 Access Control

Automatically remove or disable accounts that have been inactive for a period of *sixty (60) days* or more. (01.b) (Level 1)

03.0 Risk Management

Repeating the risk management process prior to any significant change, after a serious incident, whenever a new significant risk factor is identified, or at a *minimum annually*. (03.a) (Level 1)

07.0 Asset Management

Records of property assigned to employees shall be reviewed and updated *annually*. (07.a) (Level 1)

11.0 Information Security Incident Management

The incident management plan is reviewed and updated annually (11.c) (Level 2)

09.0 Communications and Operations Management

The firewall and router rule sets shall be reviewed at least every six (6) months. (09.m) (Level 3).

Perform quarterly scans for unauthorized wireless access points and take appropriate action if any access points are discovered. (09.m) (Level 2)

12.01 Information Security Aspects of Business Continuity Management

Responsibilities are assigned for regular reviews of at least a part of the business continuity plan, at a minimum, *annually*. (12.e) (Level 1)

Baseline ID: 0707.10b2System.1

Requirement Statement

Applications that store, process or transmit covered information undergo automated application **vulnerability testing** by a qualified party on an annual basis.

Policy

Review policies related to input validation in applications.

Process

Determine if the procedures address all the required elements of the policy.

Implementation

Examine the most recent application vulnerability test and determine if it was performed within the past twelve (12) months by a qualified party.

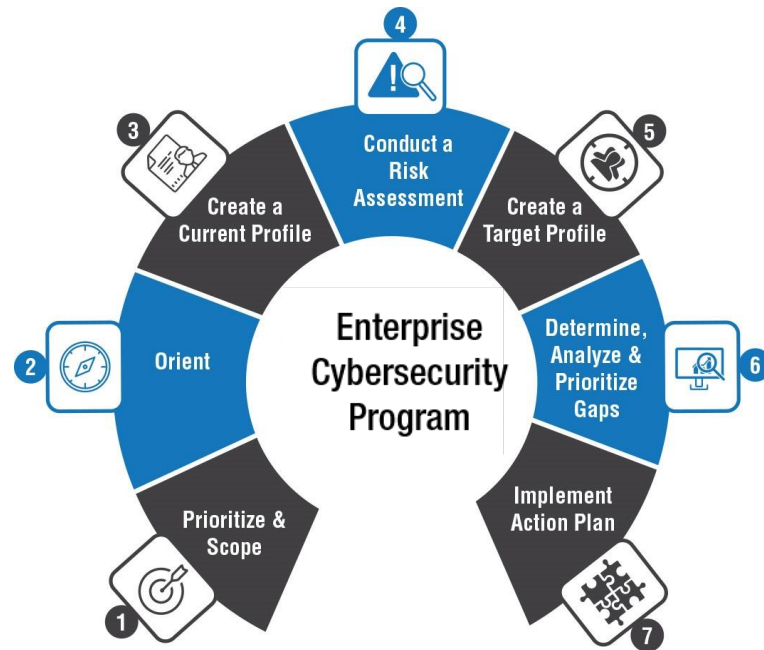
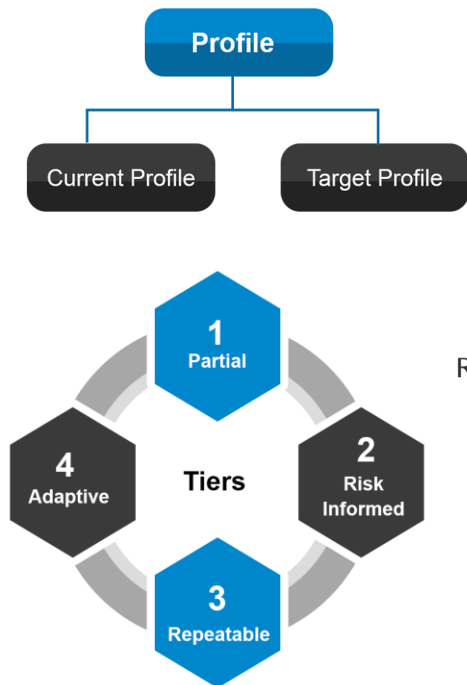
Measured

Measure the effectiveness of the implemented controls and to vulnerability testing by a qualified party on an annual basis.

Managed

Determine if ad hoc processes for investigation and resolution exist and if deviations occurred and were corrected.

HITRUST CSF & NIST



NIST Cybersecurity Framework: Foundation for Cybersecurity

The 29th National
HIPAA Summit

Function Unique Identifier	Function	Category Unique Identifier	Category
ID	Identify	ID.AM	Asset Management
		ID.BE	Business Environment
		ID.GV	Governance
		ID.RA	Risk Assessment
		ID.RM	Risk Management Strategy
		ID.SC	Supply Chain Risk Management
PR	Protect	PR.AC	Identify Management and Access Control
		PR.AT	Awareness and Training
		PR.DS	Data Security
		PR.IP	Information Protection Processes and Procedures
		PR.MA	Maintenance
DE	Detect	PR.PT	Protective Technology
		DE.AE	Anomalies and Events
		DE.CM	Security Continuous Monitoring
RS	Respond	DE.DP	Detection Processes
		RS.RP	Response Planning
		RS.CO	Communications
		RS.AN	Analysis
		RS.MI	Mitigation
RC	Recover	RS.IM	Improvements
		RC.RP	Recovery Planning
		RC.IM	Improvements
		RC.CO	Communications

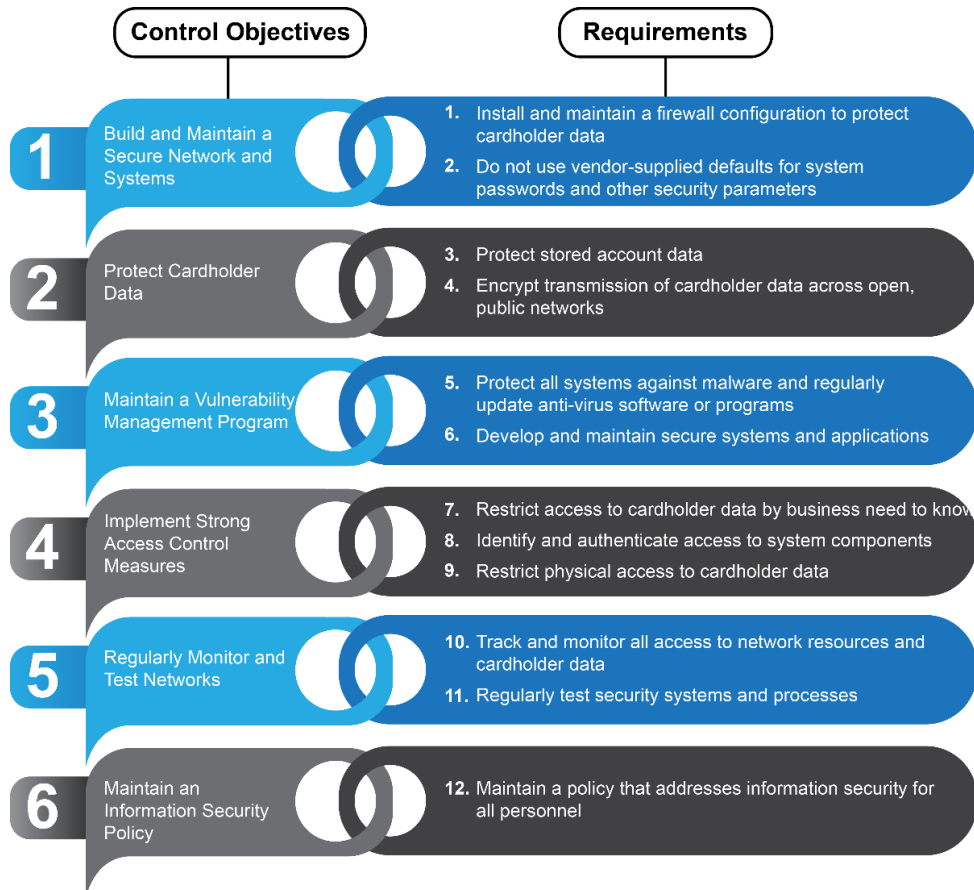
NIST Cybersecurity Framework v1.1 to HITRUST CSF v9.3 Mapping

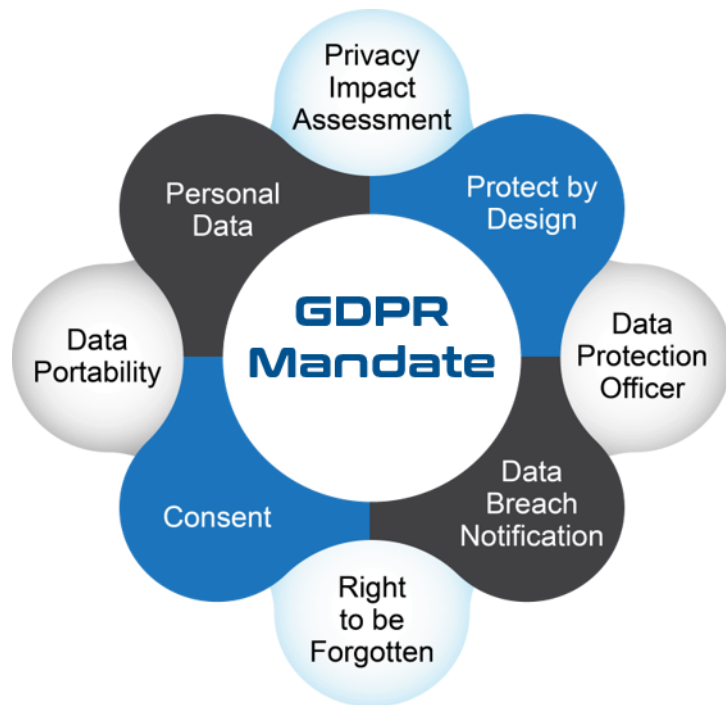
#	NIST Cybersecurity Framework v1.1	HITRUST CSF v9.3
Identify (ID)		
1.	ID.AM-1 Physical devices and systems within the organization are inventoried.	07.a Inventory of Assets 07.d Classification Guidelines
2.	ID.AM-2 Software platforms and applications within the organization are inventoried.	01.l Remote Diagnostic and Configuration Port Protection 07.a Inventory of Assets 07.d Classification Guidelines
3.	ID.AM-3 Organizational communication and data flows are mapped.	01.l Remote Diagnostic and Configuration Port Protection 01.m Segregation in Networks 01.o Network Routing Control 05.i Identification of Risks Related to External Parties 09.m Network Controls 09.n Security of Network Services
4.	ID.AM-4 External information systems are catalogued.	01.i Policy on the Use of Network Services 09.e Service Delivery 09.n Security of Network Services
5.	ID.AM-5 Resources (e.g., hardware, devices, data, time, personnel, and software) are prioritized based on their classification, criticality, and business value.	01.a Access Control Policy 01.w Sensitive System Isolation 06.c Protection of Organizational Records 07.a Inventory of Assets

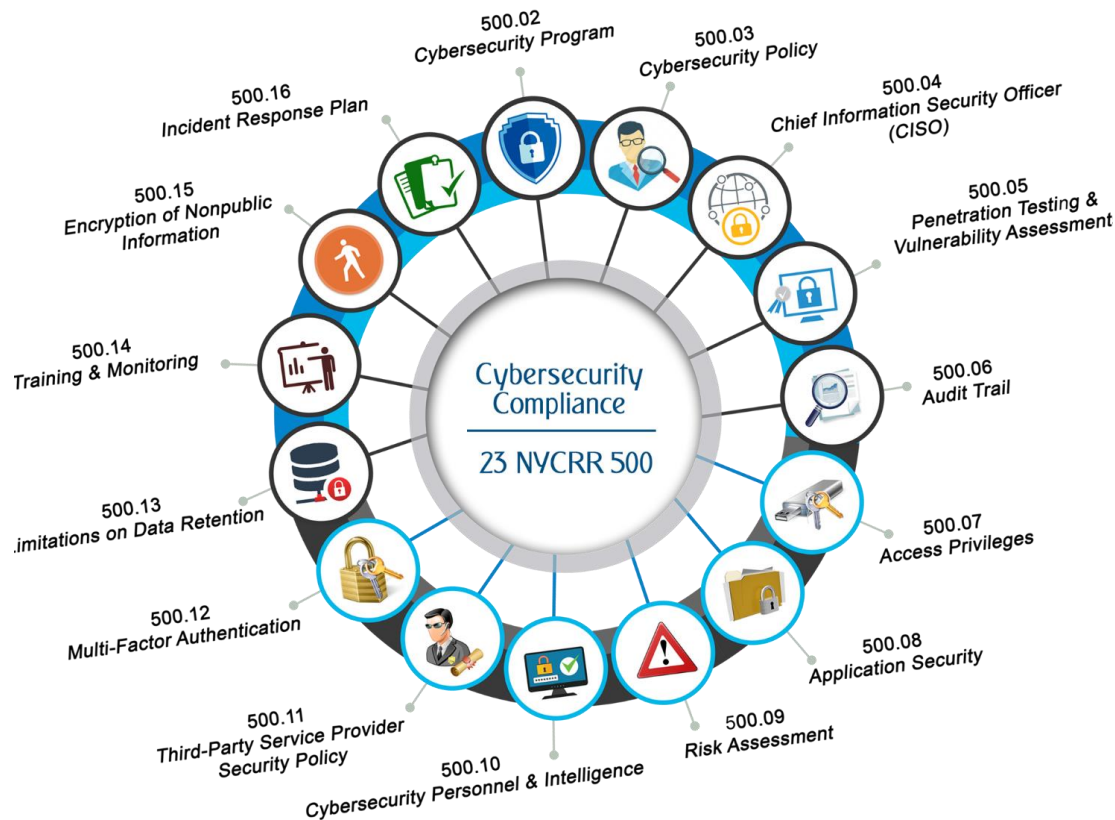
HITRUST CSF v9.3

- HITRUST CSF v9.3 incorporates and harmonizes 44 authoritative sources, added one new data privacy-related and two new security-related authoritative sources, as well as updated six existing sources.
- HITRUST CSF v9.3 updates include:
 - CCPA – requiring qualifying organizations to protect consumer data in specific ways as well as that consumers be able to opt-out sharing of their data.
 - The South Carolina Insurance Data Security Act 2018 (SCIDSA) – requiring qualifying organizations have a comprehensive information security program and the reporting of cybersecurity events.
 - NIST SP 800-171 R2 (DFARS) – providing guidance on protecting Controlled Unclassified Information (CUI) in non-federal systems and organizations.

- Updating various authoritative sources to latest versions, specifically:
 - AICPA 2017
 - CIS CSC v7.1
 - ISO 27799:2016
 - CMS/ARS v3.1
 - IRS Publication 1075 2016
 - NIST Cybersecurity Framework v1.1
- Establish and prioritize solutions that address root-cause issues to mitigate system vulnerabilities.
- Further enhancements include:
 - Updates to the glossary to better clarify terms found in the HITRUST CSF.
 - Adjusted authoritative source mappings to more fully harmonize requirements across industries and sectors.



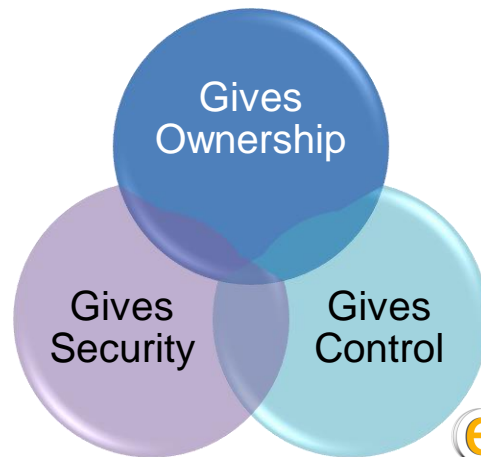






Key Facts

- Effective January 1, 2020.
- Enforced July 1, 2020.
- Privacy rights for California residents.
- Grants new enforcement power to the Attorney General.

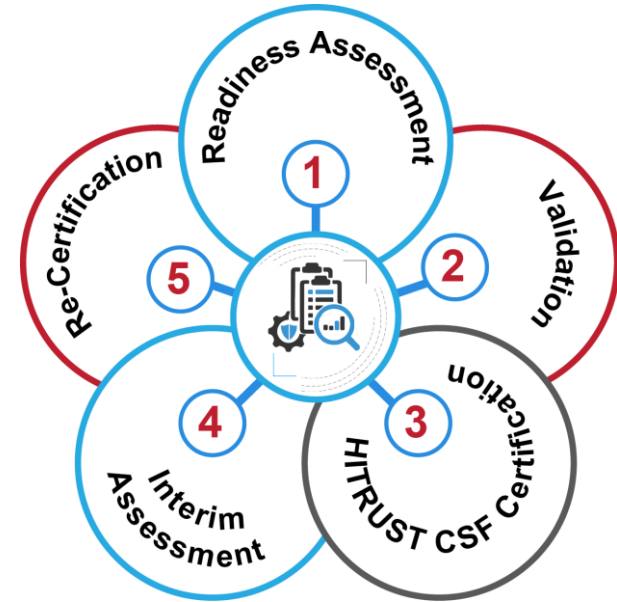
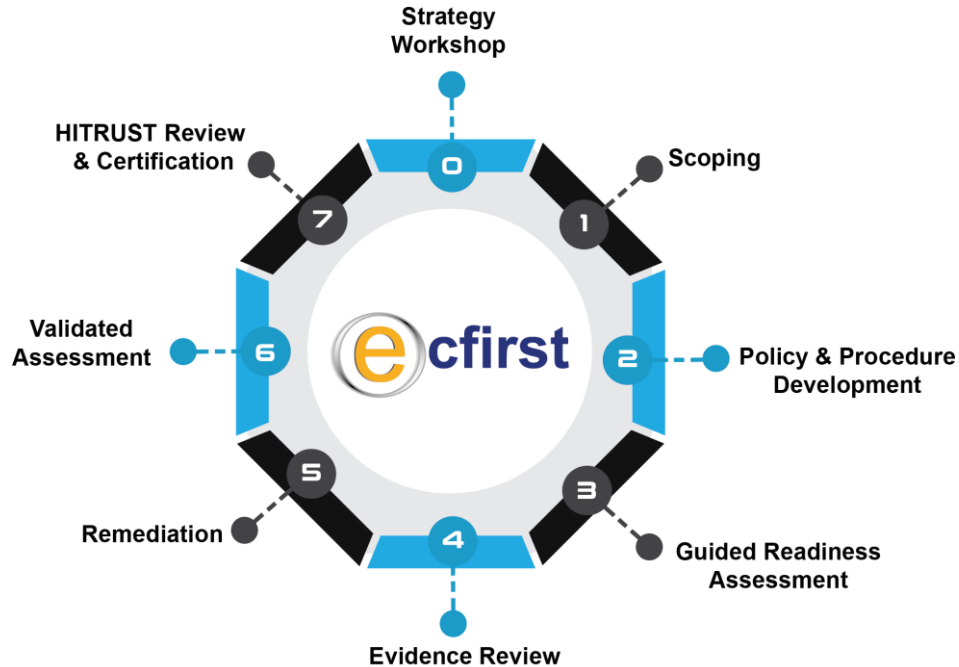




Achieving HITRUST CSF Certification

Journey to Certification

The 29th National
HIPAA Summit



HITRUST CSF Certification: Five Dimensions Aligned

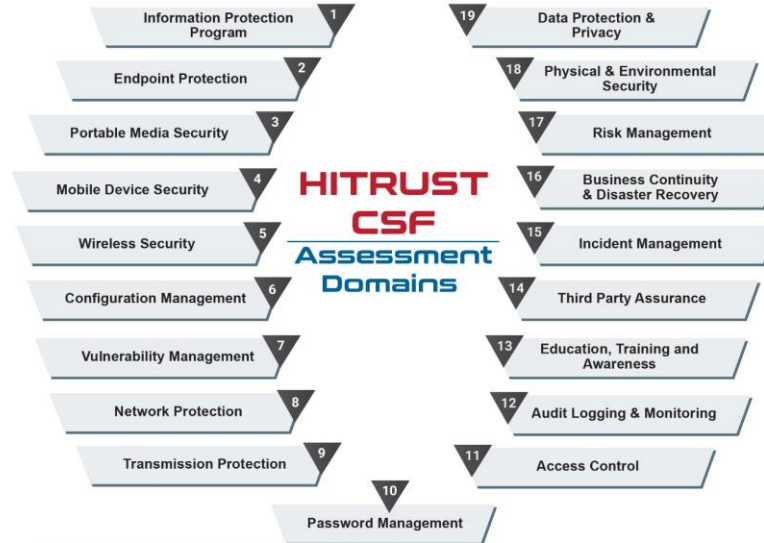
The 29th National
HIPAA Summit



Achieving HITRUST CSF Certification

HITRUST CSF Controls

0.0 Information Security Management Program	1.0 Access Control
2.0 Human Resources Security	3.0 Risk Management
4.0 Security Policy	5.0 Organization of Information Security
6.0 Compliance	7.0 Asset Management
8.0 Physical & Environmental Security	9.0 Communications & Operations Management
10.0 Information Systems Acquisition, Development, & Maintenance	11.0 Information Security Incident Management
12.0 Business Continuity Management	13.0 Privacy Practices



HITRUST: Fast Facts

3 Implementation Levels	75 Certification Requirements	156 Control Specifications	49 Control Objectives
5 Maturity Levels	14 Control Categories	3 Risk Factors	19 Domains
Dozens Supported Regulations	15 Maturity Ratings		



NIST | CMMC
Certification Training

Irvine, CA
March 23, 2020

Phoenix, AZ
April 14, 2020

Dallas, TX
May 4, 2020

Chicago, IL
July 20, 2020

Washington, DC
August 7, 2020

San Jose, CA
October 5, 2020

New Orleans, LA
November 5, 2020

Las Vegas, NV
December 7, 2020

Learning Objectives

- Examine the fundamentals of the HITRUST CSF.
- Leveraging the HITRUST CSF to implement the NIST Cybersecurity Framework.
- Addressing regulatory mandates such as GDPR, HIPAA, and FISMA.
- Getting organized: From a Readiness-Assessment, through a Validated Assessment to Certification.
- Roadmap to HITRUST CSF and NIST certification.

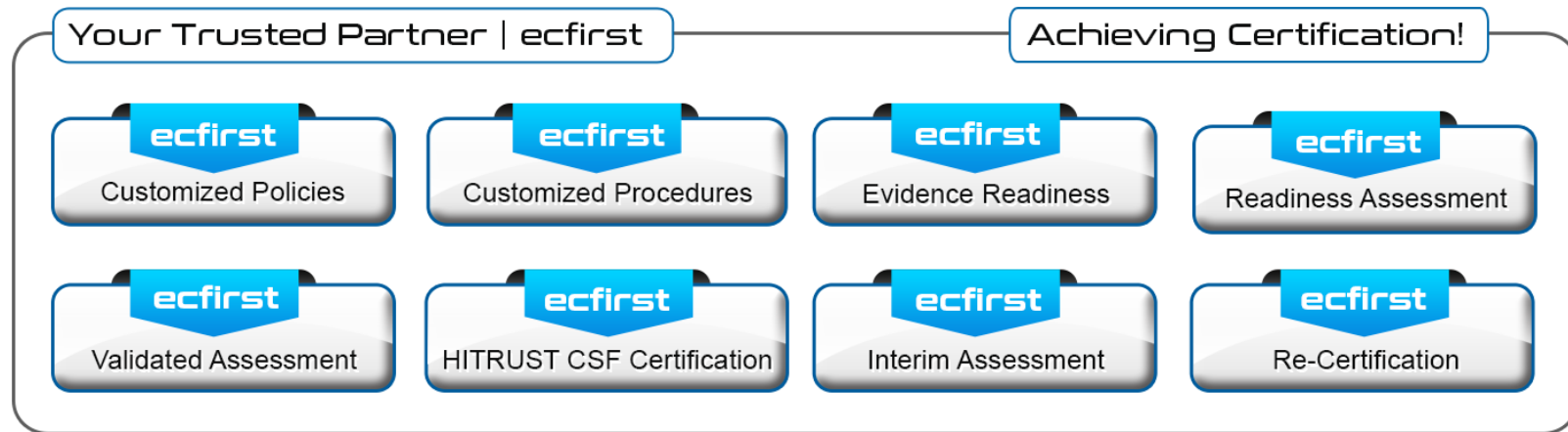


Delivered On-Site!



HITRUST End-to-End Services from ecfirst

The 29th National
HIPAA Summit



Thank You!



Ali Pabrai | Ali.Pabrai@ecfirst.com | +1.949.528.5224

Robert Acosta | Bob.Acosta@ecfirst.com | +1.949.793.5700



HITRUST[®]
Authorized External Assessor

